Shyam Century Ferrous Ltd.

Regd. Office.: Vill.:Lumshnong, PO: Khaliehriat, Dist. East Jaintia Hills, Meghalaya – 793210, Phone No- 03655-278215/16/18, Fax : 03655-278217, E-mail ID -investors@shyamcenturyferrous.com, Website – www.shyamcenturyferrous.com
CIN- U27310ML2011PLC008578

Ref: SCF/PERS/E:5.5/2014-15/002
Date: 30th June, 2015

To
The Sr. Electrical Inspector &
State Designated Agency on Energy Conservation
Meghalaya, Shillong

Sub : Submission of Form-A, Form-B & Base line Energy Pro-Forma with Assessment Year.

Dear Sir,

Please find above mentioned documents attached herewith.

This is for your kind perusal & needful please.

Thanking you,

Yours faithfully,

For Shyam Century Ferrous Ltd.

M.V.K. Nageswara Rao
(PRESIDENT)
Phone. No. 9485099191
email: nageswararao@cmcl.co.in

SHYAM CENTURY FERROUS LTD. PIN : 793101 BYRNIHAT, MEGHALAYA

INSPECTORATE GOVT. OF MEGHALAYA SHILLONG 30/6/15

Encl: Filled up copy of Form-A, Form-B & Base line Energy Pro-Forma with Assessment Year.

Copy to: i) The Director General, Bureau of Energy Efficiency, Govt. of India, Ministry of Power, 4th Floor, SEWA Bahwan, R.K.Puram, New Delhi-110066.

Form-1

Details of information regarding Total Energy Consumed and Specific Energy Consumption Per unit of Production

A.	General Details	Description	
1	Name of the Unit	SHYAM CENTURY FERROUS (A Division of STAR FERRO AND CEMENT LTD.)	
2	i) Year of Establishment	2000	
	ii) Registration No (As provided by BEE)	INS0039ML	
3	Sector and Sub-Sector in which the Designated Consumers falls	Sector	Sub-Sector
		Iron & Steel (Sponge Iron)	Ferro Alloy
4. (i)	Complete address of DCs Unit location **(including Chief Executive's name & designation)** with mobile, telephone, fax nos. & e-mail.	M. V. K. Nageswara Rao,President,EPIP, Rajabagan,Byrnihat,Ribhoi,Meghalaya,793101,9485099191,3638-200522,9485099191,nageswararao@cmcl.co.in	
(ii)	Registered Office address with telephone, fax nos. & e-mail	M. V. K. Nageswara Rao,President,Vill: Lumshnong, PO: Khaliehriat, ,Lumshnong,Khalieriat,East Jaintia Hills,Meghalaya,793210,03655-278215/16/18,03655-278217	
(iii)	Energy Manager's Name, designation, Registration No., Address, Mobile, Telephone, Fax nos. & e-mail	Arvind Rai,Energy Manager,EA-8391,9862571299,EA,03655-278217,9862571299,arvindrai@cmcl.co.in	

B.	Production details			
5	Manufacturing Industries notified as Designated Consumers			
Sr No	Products	Unit	Previous Year	Current Year
		(1)	(2)	(3)
(i)	Product 1: Sponge Iron Production	Tonne	0.00	0.00
(ii)	Product 2: Steel Melting Shop Production	Tonne	0.00	0.00
(iii)	Product 3: Ferro Chrome Production	Tonne	0.00	0.00
(iv)	Product 4: FiMN Production	Tonne	0.00	0.00
(v)	Product 5: SiMn Production	Tonne	563.83	0.00
(vi)	Product 6: Pig Iron Production	Tonne	0.00	0.00
(vii)	Product 7: Ferro Silicon Production	Tonne	9956.33	14835.00
(viii)	Product 8: Rolling Mill Production	Tonne	0.00	0.00
(ix)	Total Equivalent Product SI+SMS+Others	Tonne	0.00	0.00
(x)	Total Equivalent Product SiMn	Tonne	10207.92	14835.00
(xi)	Total Equivalent Product Ferro Chrome	Tonne	0.00	0.00
(xii)	Total Equivalent product Hot Metal/Pig Iron	Tonne	0.00	0.00
(xiii)	Total Equivalent Product SPU	Tonne	0.00	0.00

C	Energy Consumption Details of Manufacturing Industries notified as Designated Consumers			
Sr No	Item	Unit	Previous Year	Current Year
		(1)	(2)	(3)
6. (i)	Total Electricity Purchased from Grid/Other Source	Million kwh	6.51	61.31
(ii)	Total Electricity Generated	Million kwh	105.91	64.21
(iii)	Total Electricity Exported	Million kwh	17.82	0.00
(iv)	Total Electrical Energy Consumption	Million kwh	94.60	125.51
(v)	Total Solid Fuel Consumption	Million kCal	423096.72	293069.07
(vi)	Total Liquid Fuel Consumption	Million kCal	150.38	156.55
(vii)	Total Gaseous Fuel Consumption	Million kCal	0.00	0.00
(viii)	Total Thermal Energy Consumption	Million kCal	423129.96	293225.62
(ix)	Total Normalized Energy Consumption (Thermal+Electrical)	TOE		
D	Specific Energy Consumption Details			
7. i	Specific Energy Consumption(Without Normalization)	TOE/T	3.726	3.333
ii	Specific Energy Consumption (Normalized)	TOE/T	NA	1.514

For, Shyam Century Ferrous Ltd.

Arvind Rai
Energy Manager (EA-8391)

PRESIDENT

SHYAM CENTURY FERROUS LTD. PIN : 793101

E	Power Plants notified as Designated Consumer			
8. i	Total Capacity	MW		
ii	Unit Configuration	No. of units with their capcity		
iii	Annual Gross Generation	MU		
iv	Annual Plant Load Factor (PLF)	%		
v	Station Gross Design Heat Rate	kcal/kWh		
vi	Station Gross Operative Heat Rate	kcal/kWh		
vii	Auxiliary Power Consumption	%		
viii	Operative Net Heat Rate	kcal/kWh		
ix	Operative Net Heat Rate (Normalized)	kcal/kWh		

F	Sector-Wise Details		
S.No	Name of the Sector	Sub-Sector	Pro-forma in which the details to be furnished
a	Aluminium	Refinery/Smelter	Sa_1
		Cold Rolling Sheet	Sa_2
b	Cement	Cement	Sb
c	Chlor-Alkali	Chlor-Alkali	Sc
d	Fertilizer	Fertilizer	Sd
e	Iron and Steel	Integrated Steel	Se_1
		Sponge Iron	Se_2
f	Pulp and Paper	Pulp and Paper	Sf
g	Textile	Composite	Sg_1
		Fiber	Sg_2
		Spinning	Sg_3
		Processing	Sg_4
h	Thermal Power Plant	Thermal Power Plant	Sh

I/we undertake that the information supplied in the Form 1 and pro- forma is accurate to the best of my knowledge and the data furnished in Form 1 has been adhered to the data given in the concerned pro forma.

Authorised Signatory and Seal

PRESIDENT

Signature:-

Name of Energy Manager: Arvind Rai

Registration Number: EA-8391

Name of Authorised Signatory M.V.K. Nageswara Rao

Name of the Designated Consumer: Shyam Century Ferrous Ltd.

Full Address:- EPIP, Rajabagan, Byrnihat, Meghalaya - 793101.

Seal SHYAM CENTURY FERROUS LTD. PIN : 793101

Date

For, Shyam Century Ferrous Ltd.

Arvind Rai

FORM-Se$_2$ (Details of Production and Energy Consumption)

Iron & Steel (Sponge Iron)

Name of the Unit		SHYAM CENTURY FERROUS (A Divicion of STAR FERRO AND CEMENT LTD.)							
S. No	**Particulars**		**Unit**	**Year1 (20.... 20...)**	**Year2 (20.... 20...)**	**Year 3 /Previous Year (20.... 20...)**	**Baseline Year (Average of Yr 1 , Yr 2 & Yr3)**	**Current/Asssesment/Target Year (20.....20....)**	**Source of Data**
A	**Production and capacity utilization details**								
A1	**Sponge Iron**								
A1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A1.3	Sponge Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A1.4	Sponge Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A1.5	Opening Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.6	Closing Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.7	Number of Kilns		Number	0	0	0	**0.00**	0	
A1.8	Total Kiln Capacity		TPD				**0.00**		
A1.9	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A1.10	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A1.11	Specific Coal Consumption	Annual	t/t				**0.00**		
A1.12	**Thermal SEC**	**A1.9*10^6/A1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.13	**Electrical SEC**	**A1.10*10^5/A1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.14	**Capacity Utilization**	**A1.2x100/A1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A2	**Dolachar**								
A2.1	Dolachar inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A2.2	Dolachar Import	Annual	Tonne	0	0	0	**0.00**	0	
A2.3	Dolachar Export	Annual	Tonne	0	0	0	**0.00**	0	
A2.4	Average Gross calorific value of Dolachar	Annual	kcal/kg				**0.00**		
A2.5	Opening Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A2.6	Closing Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A3	**Coal Fines**								
A3.1	Coal Fines inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A3.2	Coal Fines Import	Annual	Tonne	0	0	0	**0.00**	0	
A3.3	Coal Fines Export	Annual	Tonne	0	0	0	**0.00**	0	
A3.4	Average Gross calorific value of Coal Fines	Annual	kcal/kg				**0.00**		
A3.5	Opening Stock (CoalFines)	Annual	Tonne	0	0	0	**0.00**	0	
A3.6	Closing Stock (Coal Fines)	Annual	Tonne	0	0	0	**0.00**	0	
A4	**Steel Melting Shop**								
A4.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A4.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A4.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A4.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A4.7	Ingot Import	Annual	Tonne	0	0	0	**0.00**	0	
A4.8	Ingot Export	Annual	Tonne	0	0	0	**0.00**	0	
A4.9	**Thermal SEC**	**A4.5*10^6/A4.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.10	**Electrical SEC**	**A4.6*10^5/A4.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.11	**Capacity Utilization**	**A4.2x100/A4.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5	**Ferro Chrome**								
A5.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A5.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A5.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A5.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A5.7	Ferro Chrome Import	Annual	Tonne	0	0	0	**0.00**	0	
A5.8	Ferro Chrome Export	Annual	Tonne	0	0	0	**0.00**	0	
A5.9	**Thermal SEC**	**A5.5*10^6/A5.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.10	**Electrical SEC**	**A5.6*10^5/A5.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.11	**Capacity Utilization**	**A5.2x100/A5.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6	**FeMn**								
A6.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A6.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A6.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A6.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A6.7	FeMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A6.8	FeMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A6.9	**Thermal SEC**	**A6.5*10^6/A6.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.10	**Electrical SEC**	**A6.6*10^5/A6.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.11	**Capacity Utilization**	**A6.2x100/A6.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7	**SiMn**								
A7.1	Installed Production Capacity	Annual Installed Capacity	Tonne	14400	14400	14400	**14400.00**	0	
A7.2	Production	Annual	Tonne	0	1145.5	546	**563.83**	0	
A7.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.5	Thermal energy Used	Annual	Million kcal	0	3534.791775	1434.3903	**1656.39**	0	
A7.6	Electrical Energy Used	Annual	Lakh kwh	0	48.7918	23.27625	**24.02**	0	
A7.7	SiMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A7.8	SiMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A7.9	**Thermal SEC**	**A7.5*10^6/A7.2**	**kcal/Tonne**	**0.00**	**3085806.87**	**2627088.46**	**2937736.96**	**0.00**	
A7.10	**Electrical SEC**	**A7.6*10^5/A7.2**	**kWh/Tonne**	**0.00**	**4259.43**	**4263.05**	**4260.60**	**0.00**	
A7.11	**Capacity Utilization**	**A7.2x100/A7.1**	**%**	**0.00**	**7.95**	**3.79**	**3.92**	**0.00**	
A8	**Ferro Silicon**								
A8.1	Installed Production Capacity	Annual Installed Capacity	Tonne	14400	14400	14400	**14400.00**	21600	
A8.2	Production	Annual	Tonne	13316	10214.5	6338.5	**9956.33**	14835	
A8.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A8.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A8.5	Thermal energy Used	Annual	Million kcal	84739.2	47211.10823	52984.2597	**61644.86**	78774.69075	
A8.6	Electrical Energy Used	Annual	Lakh kwh	1095.8126	987.995128	884.267394	**989.36**	1191.6727	
A8.7	Pig Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A8.8	Pig Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A8.9	**Thermal SEC**	**A8.5*10^6/A8.2**	**kcal/Tonne**	**6363712.83**	**4621969.58**	**8359116.46**	**6191521.91**	**5310056.67**	
A8.10	**Electrical SEC**	**A8.6*10^5/A8.2**	**kWh/Tonne**	**8229.29**	**9672.48**	**13950.74**	**9936.98**	**8032.85**	
A8.11	**Capacity Utilization**	**A8.2x100/A8.1**	**%**	**92.47**	**70.93**	**44.02**	**69.14**	**68.68**	
A9	**Pellet plant**								
A9.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A9.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A9.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A9.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A9.7	Pellet Import	Annual	Tonne	0	0	0	**0.00**	0	
A9.8	Pellet Export	Annual	Tonne	0	0	0	**0.00**	0	
A9.9	**Thermal SEC (Per Tonnne of Product)**	**A9.5*10^6/A9.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.10	**Electrical SEC (Per Tonne of Product)**	**A9.6*10^5/A9.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.11	**Capacity Utilization**	**A9.2x100/A9.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
	i) Please include the energy of Pellet plant in the Fuel Consumption section also. The electrical and thermal Energy used in the Pellet plant will not be considered in all the Baseline as well as in the assessment year								
A10	**Mini Blast Furnace**								
A10.1	**Sinter plant**								
A10.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A10.1.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.1.7	Sinter Import	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.8	Sinter Export	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.9	**Thermal SEC (Per Tonnne of Product)**	**A10.1.5*10^6/A10.1.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.1.10	**Electrical SEC (Per Tonne of Product)**	**A10.1.6*10^5/A10.1.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

414
3570
3561

A10.1.11	**Capacity Utilization**	**A10.1.2x100/A10.1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2	**Coke Oven plant**								
A10.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.2.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.5	Thermal energy Used (Other than Coking Coal)	Annual	Million kcal	0	0	0	**0.00**	0	
A10.2.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.2.7	Coke Import	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.8	Coke Export	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.9	**Thermal SEC (Per Tonnne of Product)**	**A10.2.5*10^6/A10.2.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2.10	**Electrical SEC (Per Tonne of Product)**	**A10.2.6*10^5/A10.2.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2.11	**Capacity Utilization**	**A10.2.2x100/A10.2.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3	**Blast Furnace**								
A10.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.3.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A10.3.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.3.7	Hot Metal Import	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.8	Hote Metal Export	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.9	**Thermal SEC (Per Tonnne of Product)**	**A10.3.5*10^6/A10.3.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3.10	**Electrical SEC (Per Tonne of Product)**	**A10.3.6*10^5/A10.3.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3.11	**Capacity Utilization**	**A10.3.2x100/A10.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.4	**Other Aux**								
A10.4.1	Thermal Energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A10.4.2	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.5	**Sinter+Coke Oven+MBF+Others Aux**								
A10.5.1	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.2	Total Thermal Energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.3	Total Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.4	**Thermal SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.2*10^6/A10.5.1**	**kcal/thm**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.5	**Electrical SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.3*10^5/A10.5.1**	**kWh/thm**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11	**Pig Iron**								
A11.1	Installed Production Capacity	Annual Installed Capacity	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.2	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.3	Opening Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.4	Closing Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.5	Thermal energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.6	Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.7	Pig Iron Import	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.8	Pig Iron Export	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.9	**Thermal SEC**	**A11.5*10^6/A11.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.10	**Electrical SEC**	**A11.6*10^5/A11.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.11	**Capacity Utilization**	**A11.2x100/A11.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12	**Total Finisied Product (Rolling Mill) [The higher production among the Rolling Mills 1-3 should be filled in the Rolling Mill-1 for making it as a major product]**								
A12.1	**Rolling Mill-1**								
A12.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A12.1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A12.1.3	Name of Finish Products (Rolling Mills)								
A12.1.4	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.1.5	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.1.6	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A12.1.7	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A12.1.8	**Thermal SEC**	**A12.1.6*10^6/A12.1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.1.9	**Electrical SEC**	**A12.1.7*10^5/A12.1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.1.10	**Capacity Utilization**	**A12.1.2x100/A12.1.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2	**Rolling Mill-2**								
A12.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A12.2.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A12.2.3	Name of Finish Products (Rolling Mills)								
A12.2.4	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.2.5	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.2.6	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A12.2.7	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A12.2.8	**Thermal SEC**	**A12.2.6*10^6/A12.2.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2.9	**Electrical SEC**	**A12.2.7*10^5/A12.2.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2.10	**Capacity Utilization**	**A12.2.2x100/A12.2.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3	**Rolling Mill-3**								
A12.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A12.3.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A12.3.3	Name of Finish Products (Rolling Mills)								
A12.3.4	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.3.5	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.3.6	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A12.3.7	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A12.3.8	**Thermal SEC**	**A12.3.6*10^6/A12.3.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3.9	**Electrical SEC**	**A12.3.7*10^5/A12.3.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3.10	**Capacity Utilization**	**A12.3.2x100/A12.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
Note: Additional Mill data sheets are to be attached in the excel form as per above data entry format									
A13.1	**Toatal Rolling Mill Production**	**A12.1.2+A12.2.2+A12.3.2**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A13.2	**Thermal SEC**	**(A12.1.8*A12.1.2+A12.2.8*A12.2.2+A12.3.8*A12.3.2)/(A12.1.2+A12.2.2+A12.3.2)**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A13.3	**Electrical SEC**	**(A12.1.9*A12.1.2+A12.2.9*A12.2.2+A12.3.9*A12.3.2)/(A12.1.2+A12.2.2+A12.3.2)**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A14	**SMS Charge**								
A14.1	Qty. of scrap charged in SMS	Annual	Tonne	0			0.00		
A14.2	Qty of DRI (Including Ferro Alloys)charged in SMS	Annual	Tonne	0			0.00		
A14.3	Qty of Pig Iron Charged in SMS	Annual	Tonne	0			0.00		
A14.4	Total Charge in SMS	A14.1+A14.2+A14.3	Tonne	0.00	0.00	0.00	0.00	0.00	
A14.5	% of Scrap used in SMS	A14.1*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.6	% of DRI used in SMS	A14.2*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.7	% of Pig Iron used in SMS	A14.3*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A15	**Kiln/BF/SAF**								
A15.1.1	Kiln-1/BF1 /SAF1 Production	Annual	Tonne	0	0	0	0.00	0	
A15.1.2	Kiln-1/BF1 /SAF1 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.1.3	Kiln-1/BF1 /SAF1 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.1.4	Kiln-1/BF1 /SAF1 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.1.5	Kiln-1/BF1 /SAF1 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.1.6	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.1.7	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.1.8	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.9	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.1.10	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.1.11	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking pruction into account (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.12	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking production into account (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-2/BF2/SAF2								
A15.2.1	Kiln-2/BF2/SAF2 Production	Annual	Tonne	0	0	0	0.00	0	
A15.2.2	Kiln-2/BF2/SAF2 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.2.3	Kiln-2/BF2/SAF2 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.2.4	Kiln-2/BF2/SAF2 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.2.5	Kiln-2/BF2/SAF2Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.2.6	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.2.7	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.2.8	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.9	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.2.10	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	

A15.2.11	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	445	0	0	0	0	
A15.2.12	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	3571	0	0	0.00	0	3562
	Kiln-3/BF3/SAF3								
A15.3.1	Kiln-3/BF3 Production	Annual	Tonne	0	0	0	0.00	0	
A15.3.2	Kiln-3/BF3/SAF3 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.3.3	Kiln-3/BF3 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.3.4	Kiln-3/BF3 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.3.5	Kiln-3/BF3 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.3.6	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.3.7	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.3.8	Kiln-3/BF3 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.9	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.3.10	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.3.11	Kiln-3/BF3 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.12	Kiln-3 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-4,5,6...../BF4,5,6.../SAF4,5,6...								
A15.4.1	Kiln Production	Annual	Tonne	0	0	0	0.00	0	
A15.4.2	Kiln Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.4.3	Kiln Operating Electrical SEC	Annual	kWh/t				0.00		
A15.4.4	Kiln Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.4.5	Kiln Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.4.6	Kiln Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.4.7	Kiln Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.4.8	Kiln Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.9	KilncCold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.4.10	Kiln Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.4.11	Kiln Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.12	Kiln Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
A16	**Note: DCs to provide separate Excel sheet in the Kiln format as specified above If no of kiln exceeds, for additional nos of Klln installed**								
B	**Boiler Details**								
B1	**From Waste Heat (SI/CO/BF/Others) used for Power generation/Steam Generation**								
B1.1	**Boiler 1**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.2	**Boiler 2**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.3	**Boiler 3**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.4	**Boiler 4**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.5	**Boiler 5**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B2	**Steam Generation Boiler used for Power generation**								
B2.1	**Boiler 6**	**For Steam Generation Boiler**							
(i)	Type			FBC	FBC	FBC	FBC	FCB	
(ii)	Rated Capacity		TPH	53.0	53.0	53.0	53.00	54.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	249407.8	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	4876.5	
(v)	Coal Consumption	Annual	Tonne	71492.1	73969.0	62476.1	69312.39	37335.3	
(vi)	GCV of Coal	Annual Average	kCal/kg	5005.2	5211.5	5197.1	5137.93	5672.0	
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	445.7	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00	2500.0	
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	121.0	121.0	121.0	121.00	115.0	
(xiv)	Operating Efficiency	Annual Average	%	86.4	86.4	86.4	86.41	82.0	
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2	65.5	65.5	65.5	65.50	67.0	
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	505.6	505.6	505.6	505.60	497.6	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg	818.7	818.7	818.7	818.66	814.4	
(xviii)	Design Efficiency		%				0.00	83.0	
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**51.14**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**853.54**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**1.00**	**1.00**	**1.00**	**1.00**	**0.99**	
B2.2	**Boiler 7**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		

(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.3	**Boiler 8**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.4	**Boiler 9**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.5	**Boiler 10**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B3	**Weighted Average Boiler 6-10**	**For Steam Generation Boiler**							
B3.1	**Total Steam Generation (Process Boiler)**	**B2.5(iii)+B2.4(iii)+B2.3(iii)+B2.2(iii)+B2.1(iii)**	**Tonnes**	**0.00**	**0.00**	**0.00**	**0.00**	**249407.80**	
B3.2	**Weighted Operating Efficiency of Boiler (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**81.95**	
B3.3	**Total Operating Capacity of Boilers (Process Boiler)**	**B2.5(xviii)+B2.4(xviii)+B2.3(xviii)+B2.2(xviii)+B2.1(xviii)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**51.14**	
B3.4	**Weighted Specific Energy Cosumption (Process Boiler)**	**Weighted average of all 5 boilers**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**853.54**	
B3.5	**Weighted Percentage of Coal Energy Used in steam Generation (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.99**	
B4	**Note: DCs to provide separate Excel sheet in the Boiler format as specified above If no of boiler exceeds for additional nos of boliers installed for Cogen/Steam**								
C	**Electricity**								
C.1	**Electricity from Grid / Other (Including Colony and Others)**								
(i)	Purchased Electricity from Grid (SEB)	Annual	Lakh kWh	114.6273	62.3419	18.3197	65.10	613.059	
(ii)	Renawble Energy (through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Electricity from CPP located outside from plant boundary (Through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Renewable purchase Obligation of Plant (RPO) (Solar & Non-Solar)	Annual	%	0	0	0	0.00	0	
(v)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	Lakh kWh	0	0	0	0.00	0	
(vi)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	MW	0	0	0	0.00	0	
(vii)	Renewable Energy generator as approved by MNRE	Annual	MW	0	0	0	0.00	0	
(viii)	Quantum of Renewable Energy Certificates (REC) obtained as a Renewal Energy Generator (Solar & Non-Solar)	Annual	MWh	0	0	0	0.00	700	
(ix)	Quantum of Energy sold under preferential tariff	Annual	MWh	0	0	0	0.00	0	
(x)	Plant Connected Load		kW	0	0	0	0.00	0	
(xi)	Contract demand with utility		kVA	1800	1800	1800	1800.00	0	
(xii)	Notified Baseline SEC		TOE/Tonne			1.907	1.907		
(xiii)	Notified Target SEC		TOE/Tonne			1.743	1.743		
(xiv)	Saving Target in TOE/ton of product as per PAT scheme Notification		TOE/Tonne			0.164	0.164		
(xv)	Equivalent Major Product Output in tonnes as per PAT scheme Notification		Tonnes			19344	19344.00		
(xvi)	**Total Electricity Purchased from Grid/ others**	**C.1(i)+C.1(ii)+C.1(iii)**	**Lakh kWh**	**114.63**	**62.34**	**18.32**	**65.10**	**613.06**	
(xvii)	**Total Electricity Purchased from grid/ Other with out colony/construction power etc**	**IF((C.1(i)+C.1(ii)+C.1(iii))>C.5,((C.1(i)+C.1(ii)+C.1(iii))-C.5),0)**		**114.63**	**62.34**	**18.32**	**65.10**	**613.06**	
(xviii)	**Equivalent Thermal Energy of Purchased Electricity from Grid / Other without colony/construction power etc**	**C.1(xv)x860/10**	**Million kcal**	**9857.95**	**5361.40**	**1575.49**	**5598.28**	**52722.89**	
C.2	**Own Generation**								
C.2.1	**Through DG sets**								
(i)	Grid Connected		***Yes/No***	NO	NO	NO	NO	NO	
(ii)	Install Capacity	Annual	MW	0.96	0.96	0.96	0.96	1.44	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0.215	0.211	0.1755	0.20	0.88	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	211.23	
C.2.2	**Captive Power Plant CPP (For other than SID Plant)**								

416
3572
3563

(i)	Grid Connected		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW	13.8	13.8	13.8	13.80	13.8	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	1092.327	1086.035	998.23	1058.86	641.173	
(iv)	Auxiliary Power Consumption (APC)	Annual	%	10.07618598	9.982155271	10.41830039	10.16	9.89	
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%	90.35859639	89.83811462	82.57477996	87.59	95.2769642	
(vii)	Running Hours	Annual	Hours	0	0	0	0.00	4876.5	
Note	**Please provide information for all CPP in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.3	**Through Gas turbine**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	NO	
(ii)	Installed Capacity (C)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hours	0	0	0	0.00	0	
Note	**Please provide information for all GT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.4	**Through Gas Generator (GG) sets**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	NO	
(ii)	Installed Capacity (C)	Annual	MW	0	0	0	0.00	0	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0	0	0	0.00	0	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	**Please provide information for all GG in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.5	**Through Coal/Biomass based Boiler and WHRB Steam turbine**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	NO	
(ii)	Power Plant Capacity (C)	Annual	MW		0		0.00		
(iii)	Annual Grosss Unit Generation	Annual	Lakh kWh		0		0.00		
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Gross Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	**Please provide information for all WHRBT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.6	**Through Co-Generation (Extraction Cum Condensing)**								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	NO	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	^{0}C				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	^{0}C				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	^{0}C				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6(xiv)*C.2.6(xii))+(C.2.6(xvii)*C.2.6(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6(x)*C.2.6(vii))/1000)-C.2.6(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6(xx)*1000/(C.2.6(vii)*C.2.6(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction Cum Condensing)**	**(C.2.6(xxi)/C.2.6(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.2.6.1	**Through Co-Generation (Extraction/Back Pressure)**								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	NO	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	^{0}C				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	^{0}C				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	^{0}C				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6.1(xiv)*C.2.6.1(xiii))+(C.2.6.1(xvii)*C.2.6.1(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6.1(x)*C.2.6.1(vii))/1000-C.2.6.1(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6.1(xx)*1000/(C.2.6.1(vii)*C.2.6.1(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction /Back Pressure)**	**(C.2.6.1(xxi)/C.2.6.1(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiv)	**Total % of thermal energy in Process from Cogen**	**(C.2.5(xx)+C.2.6(xx))/(C.2.6(xxi)+C.2.5(xxi)+C.2.5(xx)+C.2.6(xx))**	**Factor**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.3	**Total Own Generation of Electricity**	**C.2.1.(iii)+C.2.2.(iii)+C.2.3.(iii)+C.2.4.(iii)+C.2.5.(iii)+C.2.6.(iii)**	**Lakh kWh**	**1092.54**	**1086.25**	**998.41**	**1059.06**	**642.05**	
C.4	**Electricity Supplied to Grid/others**	**Annual**	**Lakh kWh**	**0**	**176.8272**	**357.6556**	**178.16**		
C.5	**Electricity Supplied to Colony/others**	**Annual**	**Lakh kWh**	**0**	**0**	**0**	**0.00**	**0.0021168**	
C.6	**Electricity Supplied to Grid/Colony/Others from WHRB ST**	**C.4+(IF(C.5>C.1(xiv),(C.5-C.1(xiv)),0)**	**Lakh kWh**	**0.00**	**176.83**	**357.66**	**178.16**	**0.00**	
C.7	**Equivalent Thermal Energy supplied to grid/others**	**C.4*2717/10**	**Million kcal**	**0.00**	**48043.95**	**97175.03**	**48406.33**	**0.00**	
C.8	**Total Electricity Consumed in Process and Auxilliaries**	**IF(C.5>C.1(xiv),((C.3-C.4)-(C.5-C.1(xiv)),(C.1(xv)+C.3-C.4))**	**Lakh kWh**	**1207.17**	**971.76**	**659.07**	**946.00**	**1255.11**	
D	**Solid Fuel Consumption**								
D.1	**Non coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00	5049	
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	5005.15	5211.51	5197.12	5137.93	5672	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	4425	4425	4425	4425.00	4425	
(iv)	Quantity purchased	Annual	Tonne		0		0.00		
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00	10.5	
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	71492.078	73969.016	62476.079	69312.39	37781.018	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	19080.8	16109.2	10216.6	15135.53	17802.19	
(x)	**Total Quantity Consumed**	**D.1.(vi)+D.1.(viii)+D.1.(ix)**	**Tonne**	**90572.88**	**90078.22**	**72692.68**	**84447.92**	**55583.21**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.1.(ii)*D.1.(vi))/1000**	**Million kcal**	**357828.57**	**385490.27**	**324695.68**	**356121.98**	**214293.93**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.1.(ii)*D.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.1.(ii)*D.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.1.(iii)*D.1.(ix))/1000**	**Million kcal**	**84432.54**	**71283.21**	**45208.46**	**66974.74**	**78774.69**	
D.2	**Non Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	

417

3573

3564

(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.2.(vi)+D.2.(viii)+D.2.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.2.(ii)*D.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.2.(ii)*D.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.2.(ii)*D.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.2.(iii)*D.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.3	**Coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.3.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.3.(ii)*D.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.4	**Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.4.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.4.(ii)*D.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.5	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.5.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.5.(ii)*D.5.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.6	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.6.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.6.(ii)*D.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.7	**Coal Fines**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.7.(vii)+D.7.(viii)+D.7.(ix)+D.7.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.7.(ii)*D.7.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.7.(ii)*D.7.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.7.(ii)*D.7.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.7.(iii)*D.7.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.8	**Coal Rejects/Slurry**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.8.(vii)+D.8.(viii)+D.8.(ix)+D.8.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.8.(ii)*D.8.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.8.(ii)*D.8.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.8.(ii)*D.8.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.8.(iii)*D.8.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.9	**Dolachar**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.9.(vii)+D.9.(viii)+D.9.(ix)+D.9.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.9.(ii)*D.9.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.9.(ii)*D.9.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.9.(ii)*D.9.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.9.(iii)*D.9.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.10	**Bio mass or Other purchased Renewable solid fuels (pl. specify) baggase, rice husk, etc.**	**Thermal Energy Input through Biomass not to be taken into account if used in Process**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.10.(vi)+D.10.(vii)+D.10.(viii)+D.10.(ix**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.10.(ii)*D.10.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.10.(ii)*D.10.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.10.(ii)*D.10.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.10.(iii)*D.10.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.11	**Solid Waste (pl. specify and refer CPCB guidelines) rubber tyres chips, Municipal Solid waste etc.**	**Thermal Energy Input through solid waste, mentioned in CPCB guidelines, not to be taken into**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.11.(vi)+D.11.(vii)+D.11.(viii)+D.11.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.11.(ii)*D.11.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (WHRB)**	**D.11.(ii)*D.11.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.11.(ii)*D.11.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**D.11.(iii)*D.11.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

D.12	Total Solid Energy Used in Power Generation (CPP)	IF(OR(C.2.2(i)="yes"),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)))	Million kcal	357828.57	385490.27	324695.68	356121.98	214293.93	
D.12.1	Total Solid Energy Used in Power Generation (CPP) for HR	D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi)	Million kcal	357828.57	385490.27	324695.68	356121.98	214293.93	
D.13	Total Solid Energy Used in Power Generation (WHRB)	IF(OR(C.2.5(i)="yes"),D.1.(xiii)+D.2.(xiii)+D.7(xiii)+D.8.(xiii)+D.10.(xiii)+D.11.(xiii),D.1.(xiii)+D.2.(xiii)+D.7(xiii)+D.8.(xiii))	Million kcal	0.00	0.00	0.00	0.00	0.00	
D.13.1	Total Solid Energy Used in Power Generation (WHRB) for HR	,D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
D.14	Total Solid Energy Used in Power Generation (Cogen)	If(Or(C.2.6(i),C.2.6.1(i)="yes"),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)+D.8(xii)*(1-C.2.6.1(xxiii)+D.9(xii)*(1-c.2.6.1(xxiii)),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
D.15	Total Solid Energy Used in Process	D.1.(xiv)+D.2.(vxiv)+D.3.(vii)+D.4.(vii)+D.5(xv)+D.6(xiv)	Million kcal	84432.54	71283.21	45208.46	66974.74	78774.69	
E	Liquid Fuel Consumption								
E.1	Furnace Oil								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	kilo Litre		0		0.00		
(iv)	Average Density	Annual	kg/ltr				0.00		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0		0.00		
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0		0.00		
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0		0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0		0.00		
(ix)	Quantity used for process	Annual	kilo Litre		0		0.00		
(x)	Total F. Oil Consumption as fuel	(E.1.(v)+E.1.(vi)+E.1.(vii)+E.1.(viii)+E.1.(ix))*E.1.(iv)	Tonne	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (DG Set)	(E.1.(ii)*E.1.(iv)*E.1.(v))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Thermal Energy Used in Power Generation (CPP)	(E.1.(ii)*E.1.(iv)*E.1.(vi))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Power Generation (WHRB)	(E.1.(ii)*E.1.(iv)*E.1.(vii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Power Generation (Cogen)	(E.1.(ii)*E.1.(iv)*E.1.(viii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xv)	Thermal Energy Used in Process	(E.1.(ii)*E.1.(iv)*E.1.(ix))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.2	Light Sulphur Heavy Stock (LSHS)								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	0.00	0	
(iv)	Average Density	Annual	kg/ltr				0.00		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	0.00	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	0.00	0	
(x)	Total LSHS Consumption as fuel	(E.2.(v)+E.2.(vi)+E.2.(vii)+E.2.(viii)+E.2.(ix))*E.2.(iv)	Tonne	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (DG Set)	(E.2.(ii)*E.2.(iv)*E.2.(v))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Thermal Energy Used in Power Generation (CPP)	(E.2.(ii)*E.2.(iv)*E.2.(vi))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Power Generation (WHRB)	(E.2.(ii)*E.2.(iv)*E.2.(vii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Power Generation (Cogen)	(E.2.(ii)*E.2.(iv)*E.2.(viii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xv)	Thermal Energy Used in Process	(E.2.(ii)*E.2.(iv)*E.2.(ix))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.3	High Sulphur Heavy Stock (HSHS)								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	0.00	0	
(iv)	Average Density	Annual	kg/ltr				0.00		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	0.00	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	0.00	0	
(x)	Total HSHS Consumption as fuel	(E.3.(v)+E.3.(vi)+E.3.(vii)+E.3.(viii)+E.3.(ix))*E.3.(iv)	Tonne	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (DG Set)	(E.3.(ii)*E.3.(iv)*E.3.(v))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Thermal Energy Used in Power Generation (CPP)	(E.3.(ii)*E.3.(iv)*E.3.(vi))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Power Generation (WHRB)	(E.3.(ii)*E.3.(iv)*E.3.(vii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Power Generation (Cogen)	(E.3.(ii)*E.3.(iv)*E.3.(viii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xv)	Thermal Energy Used in Process	(E.3.(ii)*E.3.(iv)*E.3.(ix))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.4	Light Diesel Oil (LDO)								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	0.00	0	
(iv)	Average Density	Annual	kg/ltr				0.00		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	0.00	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	0.00	0	
(x)	Total LDO Consumption as fuel	(E.4.(v)+E.4.(vi)+E.4.(vii)+E.4.(viii)+E.4.(ix))*E.4.(iv)	Tonne	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (DG Set)	(E.4.(ii)*E.4.(iv)*E.4.(v))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Thermal Energy Used in Power Generation (CPP)	(E.4.(ii)*E.4.(iv)*E.4.(vi))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Power Generation (WHRB)	(E.4.(ii)*E.4.(iv)*E.4.(vii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Power Generation (Cogen)	(E.4.(ii)*E.4.(iv)*E.4.(viii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xv)	Thermal Energy Used in Process	(E.4.(ii)*E.4.(iv)*E.4.(ix))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.5	High Speed Diesel (HSD)								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/ kg	10032	10032	10032	10032.00	10800	
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	0.00	0	
(iv)	Average Density	Annual	kg/ltr	0.8263	0.8263	0.8263	0.83	0.84	
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	12.35	7.99	6.72	9.02	17.2564	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	0.00	0	
(vii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for material handling / Transportation (Raw material handling , Loco, etc)	Annual	kilo Litre	0	0	0	0.00	0	
(x)	Quantity used for process heating	Annual	kilo Litre	8.234	10.06	9.07	9.12	0	
(xi)	Total HSD Consumption as fuel	(E.5.(v)+E.5.(vi)+E.5.(vii)+E.5.(viii)+E.5.(ix)+E.5.(x))*E.5.(iv)	Tonne	17.01	14.91	13.05	14.99	14.50	
(xii)	Thermal Energy Used in Power Generation (DG Set)	(E.5.(ii)*E.5.(iv)*E.5.(v))/1000	Million kcal	102.37	66.23	55.71	74.77	156.55	
(xiii)	Thermal Energy Used in Power Generation (CPP)	(E.5.(ii)*E.5.(iv)*E.5.(vi))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Power Generation (WHRB)	(E.5.(ii)*E.5.(iv)*E.5.(vii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xv)	Thermal Energy Used in Power Generation (Transportation)	(E.5.(ii)*E.5.(iv)*E.5.(viii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xvi)	Thermal Energy Used in Process	(E.5.(ii)*E.5.(iv)*E.5.(x))/1000	Million kcal	68.26	83.39	75.19	75.61	0.00	
E.6	Liquid Waste (pl. specify and refer CPCB guidelines)	Thermal Energy Input through Liquid waste,							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	0.00	0	
(iv)	Average Density	Annual	kg/ltr				0.00		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	0.00	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	0.00	0	
(x)	Total Liquid waste Consumption as fuel	(E.6.(v)+E.6.(vi)+E.6.(vii)+E.6.(viii)+E.6.(ix))*E.6.(iv)	Tonne	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (DG Set)	(E.6.(ii)*E.6.(iv)*E.6.(v))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Thermal Energy Used in Power Generation (CPP)	(E.6.(ii)*E.6.(iv)*E.6.(vi))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Power Generation (WHRB)	(E.6.(ii)*E.6.(iv)*E.6.(vii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Power Generation (Cogen)	(E.6.(ii)*E.6.(iv)*E.6.(viii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	

(xvv)	Thermal Energy Used in Process	(E.6.(ii)*E.6.(iv)*E.6.(ix))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.7	Total Liquid Energy Used in Power Generation (DG Set)	IF(C.2.1(i)="yes",E.6(xi)+E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi),E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi)	Million kcal	102.37	66.23	55.71	74.77	156.55	
E.8	Total Liquid Energy Used in Power Generation (CPP)	IF(C.2.2(i)="yes",E.6(xii)+E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii),E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
E8.1	Total Liquid Energy Used in Power Generation (CPP) for HR	E.6(xii)+E.5(xii)+E.4(xi)+E3(xi)+E.2(xi)+E.1(xi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.9	Thermal Energy Used in Power Generation (WHRB)	IF(C.2.3(i)="yes",E.6(xiii)+E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii),E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
E9.1	Thermal Energy Used in Power Generation (WHRB) for HR	E.6(xiii)+E.5(xiii)+E.4(xii)+E3(xii)+E.2(xii)+E.1(xii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.10	Thermal Energy Used in Power Generation (Cogen)	IF(OR(C.2.6(i),C.2.6.1(i)="yes"),(E.6(xiv)*(1-C.2.6.1(xxiv))+E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)),E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
E.11	Total Liquid Energy Used in Process	E.1.(xv)+E.2.(xv)+E.3.(xv)+E.4.(xv)+E.5.(xvi)	Million kcal	68.26	83.39	75.19	75.61	0.00	
F	Gaseous Fuel								
F.1	Compressed Natural Gas CNG/PNG/LNG								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				0.00		
(ii)	Gross calorific value	Annual	kcal/SCM				0.00		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.1.(iv)+F.1.(v)+F.1.(vi)+F.1.(vii)+F.1.(viii)	Million SCM	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.1.(ii)*F.1.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.1.(ii)*F.1.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.1.(ii)*F.1.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.1.(ii)*F.1.(vii)+F.1.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.2	NG								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				0.00		
(ii)	Gross calorific value	Annual	kcal/SCM				0.00		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.2.(iv)+F.2.(v)+F.2.(vi)+F.2.(vii)+F.2.(viii)	Million SCM	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.2.(ii)*F.2.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.2.(ii)*F.2.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.2.(ii)*F.2.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.2.(ii)*F.2.(vii)+F.2.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.3	CBMG								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				0.00		
(ii)	Gross calorific value	Annual	kcal/SCM				0.00		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.3.(iv)+F.3.(v)+F.3.(vi)+F.3.(vii)+F.3.(viii)	Million SCM	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.3.(ii)*F.3.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.3.(ii)*F.3.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.3.(ii)*F.3.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.3.(ii)*F.3.(vii)+F.3.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.4	LPG								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/kg				0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.4.(iv)+F.4.(v)+F.4.(vi)+F.4.(vii)+F.4.(viii)	Million kg	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.4.(ii)*F.4.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.4.(ii)*F.4.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.4.(ii)*F.4.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.4.(ii)*F.4.(vii)+F.4.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.5	Propane								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/kg				0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	0.00	0	
(ix)	Quantity used as Raw Material	Annual	Million kg	0	0	0	0.00	0	
(x)	Total Gas Consumption as fuel	F.5.(iv)+F.5.(v)+F.5.(vi)+F.5.(vii)+F.5.(viii)	Million kg	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (GT)	F.5.(ii)*F.5.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (GG)	F.5.(ii)*F.5.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Quantity used for power generation (Cogen)	F.5.(ii)*F.5.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Process	F.5.(ii)*F.5.(vii)+F.5.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.6	Naptha								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/kg				0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.6.(iv)+F.6.(v)+F.6.(vi)+F.6.(vii)+F.6.(viii)	Million kg	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.6.(ii)*F.6.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.6.(ii)*F.6.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.6.(ii)*F.6.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.6.(ii)*F.6.(vii)+F.6.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.7	Quantity used for power generation (GT)	F.1.(x)+F.2.(x)+F.3.(x)+F.4.(x)+F.5.(x)+F.6.(x)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.8	Quantity used for power generation (GG)	F.1.(xi)+F.2.(xi)+F.3.(xi)+F.4.(xi)+F.5.(xi)+F.6.(xi)	Million kcal	0.00	0.00	0.00	0.00	0.00	

F.9	Quantity used for power generation (Cogen)	F.1.(xii)+F.2.(xii)+F.3.(xii)+F.4.(xii)+F.5.(xii)+F.6.(xii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.10	Total Gaseous Energy Used in Process	F.1.(xiii)+F.2.(xiii)+F.3.(xiii)+F.4.(xiii)+F.5.(xiii)+F.6.(xiii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.11	Gas Import/Export (All type of Gaseous Fuel)								
F.11.1	Gas Import								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	Thermal Energy for Imported Gas	F.11.1 (i) x F.11.1 (ii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.11.2	Gas Export								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	Thermal Energy for Exported Gas	F.12.1 (i) x F.12.1 (ii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(iv)	Total thermal Energy for Gas (Import-Export)	F.11.1 (iii) - F.12.1 (iii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
G	Total Thermal Energy								
G.1	Total Thermal Energy Used in Power Generation	F.7+F.8+F.9+E.7+E.8+E.9+E.10+D.10+D.11+D.12	Million kcal	357930.95	385556.50	324751.38	356079.61	214450.48	
G.2	Total Thermal Energy Used in Process	D.13+E.11+F.10	Million kcal	84500.80	71366.60	45283.64	67050.35	78774.69	
G.3	Total Thermal Energy Input through all Fuels	G.1+G.2+F.11.2(iv)	Million kcal	442431.74	456923.10	370035.02	423129.96	293225.17	
H	Gross Heat Rate								
H.1	Gross Heat Rate of DG Set	E.7x10/C.2.1.(iii)	kcal/kWh	4761.61	3138.99	3174.08	3729.22	1778.98	
H.2	Gross Heat Rate of CPP (Steam Turbine)	(D.7+E.8)x10/C.2.2.(ii)	kcal/kWh	3275.84	3549.52	3252.71	3363.25	3342.22	
H.3	Grross Heat Rate of WHRB Turbine	(E9.1+D.12)*10/C.2.5(iii)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.4	Gross Heat Rate of CPP (Gas Turbine)	F.3x10/C.2.3.(ii)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.5	Gross Heat Rate of Gas Generator (GG)	F.8*10/C.2.4(iii)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.6	Gross Heat Rate of CoGen (Condensing)	C.2.6(vii)*C.2.6(x)-C.2.6(xiii)*C.2.6(xiv)-C.2.6(xvii)*C.2.6(xviii)*1000/((B3.2/100)*C.2.6(iii)*10^5)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.7	Gross Heat Rate of CoGen (Extraction)	C.2.6.1(vii)*C.2.6.1(x)-C.2.6.1(xiii)*C.2.6.1(xiv)-C.2.6.1(Xvii)*C.2.6.1(xviii)*1000/((B3.2/100)*C.2.6.1(iii)*10^5)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.6	Weighted Average Heat Rate	H.1*C.2.1(iii)+H.2*C.2.2(iii)+H.3*C.2.5(iii)+H.4*C.2.3(iii)+H.5*C.2.4(iii)+H.6*C.2.6(iii)+H.7*C.2.6.1(iii)+C.1.(xiv)*860/C.2.1(iii)+C.2.2(iii)+C.2.5(iii)+C.2.4(iii)+C.2.6(iii)+C.2.6.1(iii)+C.1.(xiv)	kcal/kWh	3046.71	3403.47	3209.59	3218.36	2128.68	
I	Performance Indicators (MBF)								
I.1	SEC of Other Products		Fuel consumtion / tonne of products	0	0	0	0.00	0	
I.2	SEC of Other Products		kWh/T	0	0	0	0.00	0	
I.3	Sinter SEC		Gkal/tp	0	0	0	0.00	0	
I.4	Sinter SEC		Gkal/ tcs	0	0	0	0.00	0	
I.5	Blast Furnace (B.F.) SEC		Gkal/tp	0	0	0	0.00	0	
I.6	Blast Furnace (B.F.) SEC		Gkal/ tcs	0	0	0	0.00	0	
J	Raw Material Quality								
J.1	FeT in Iron ore		%	0	0	0	0.00	0	
J.2	Ash % in Non Coking Coal		%	0	0	0	0.00	0	
J.3	GCV of Non Coking Coal		Kcal/kg	0	0	0	0.00	0	
J.4	Ash % in Coking Coal		%	0	0	0	0.00	0	
K	Coal Quality in CPP/Boiler (As Fired Basis)								
i	Ash	Annual	%	0	0	0	0.00	0	
ii	Moisture	Annual	%	0	0	0	0.00	0	
iii	Hydrogen	Annual	%	0	0	0	0.00	0	
iv	GCV	Annual	kcal/kg	0	0	0	0.00	0	
L	Miscelleneous Data $								
L.1	Additional Equipment installation after baseline year due to Environmental Concern								
(i)	Additional Electrical Energy Consumed	Annual	Lakh kWh					0.00	
(ii)	Additional Thermal Energy Consumed	Annual	Million kcal					0.00	
L.2	Biomass/ Alternate Fuel availability								
(i)	Biomass replacement with Fossil fuel due to Biomass un-availbility (used in the process)	Annual	Tonne					0.00	
(ii)	Alternate Solid Fuel replacement with Fossil fuel due to Alternate Solid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
(iii)	Alternate Liquid Fuel replacement with Fossil fuel due to Alternate Liquid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
L.3	Project Activities (Construction Phase)								
(i)	Electrical Energy Consumed due to commissioning of Equipment	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy Consumed due to commissioning of Equipment	Annual	Million kcal					0.00	
L.4	New Line/Unit Commissioning								
(i)	Electrical Energy Consumed due to commissioning of New process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy Consumed due to commissioning of New Process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Million kcal					0.00	
(iii)	SI from DRI route Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(iv)	Pig Iron Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(v)	Date of Commissioning (70% Capacity Utilisation)	Date							
(vi)	Electrical Energy Consumed from external source due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Lakh kWh					0.00	
(vii)	Thermal Energy Consumed due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Million kcal					0.00	
(viii)	Steam Generation From Co-Gen till New Line /Unit attains 70% of Capacity Utilisation	Annual	Ton					0.00	
(ix)	Net Electricity Genration till new line/ Unit attains 70% Capacity Utilisation	Annual	Lakh kWh					0.00	
(x)	Date of Commissioning (70% Capacity Utilisation)	Date							
L.5	Unforeseen Circumstances								
(i)	Electrical Energy to be Normalised	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy to be Normalised	Annual	Million kcal					0.00	
$ Authentic documents in support of claim in Thermal and Electrical Energy is required									
M	Documentation for Normalisation								
(i)	Scrap % -Document Available for Normalisation		Yes/No	No	No	No	No	No	
(ii)	Start Stop-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(iii)	Fuel Quality in CPP & Co-Gen -Document Available for Normalisation		Yes/No	No	No	No	No	Yes	
(iv)	Power Mix-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(v)	Intermediate Product-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(vi)	Other Factos - Document Available for Normalisation		Yes/No	No	No	No	No	Yes	
N	Energy Saving and Investment	Annual	Million Rs						
(i)	Investment made for achieving target	Annual	Million Rs	0.00	0.00	0.00	0.00	82.43	
(ii)	Thermal Energy Saving during the year								
a	Solid Fuel								
a.1	Coal	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
a.2	Lignite	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
a.3	Petro Coke	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
a.4	Biomass/Waste	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	By increasing plant availability and smoth running of plant & by minimizing waste product formation.
b	Liquid Fuel (FO/HSD/LDO/LSHS/HSHS)	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
c	Gaseous Fuel	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
(iii)	Electrical energy Saving during the year	Annual	Lakh kWH	0.00	0.00	0.00	0.00	37.07	
O	Process Flow Diagram Attached	Yes/No					Yes		

	Please enter numeric values or leave blank
0	Please eneter numeric value or "0"
	Fomulae Protected
Yes	Select from the list Yes or No
	Data not to be filled

	Please enter text value

We .....undertake that information furnished in the Sectror Specific Form I are complete and acciurate to the best of my knowledge. I also undertake that the information provided for Normalisation is limited to external factors only.

Signature of Energy Manager
Name

Date:

Place:

(Signature of the Chief Executive)

Organisation Seal

Shyam Century Ferrous Ltd.

Regd. Office.: Vill.:Lumshnong, PO: Khaliehriat, Dist. East Jaintia Hills, Meghalaya – 793210, Phone No- 03655-278215/16/18,
Fax : 03655-278217, E-mail ID -investors@shyamcenturyferrous.com, Website – www.shyamcenturyferrous.com
CIN- U27310ML2011PLC008578

423

Annexure R/19

Ref: SCF/PERS/E:5.5/2016-17/001
Date: 24th June, 2016

To
The Sr. Electrical Inspector &
State Designated Agency on Energy Conservation
Meghalaya, Shillong

Sub : Submission of FORM-1 for the FY-2015-16 & Action Plan

Dear Sir,

Please find furnished **Form – 1** for the FY-2015-16 & **Action Plan reporting format for PAT Cycle-II** of our plant enclosed herewith.

This is for your kind information please.

Thanking you,

Yours faithfully,

For Shyam Century Ferrous Ltd.

M.V.K. Nageswara Rao
(Chief Executive Officer)
Phone. No. 9485099191
email: nageswararao@cmcl.co.in

SHYAM CENTURY FERROUS LTD. PIN : 793101 BYRNIHAT, MEGHALAYA

INSPECTORATE OF ELECTRICITY GOVT. OF MEGHALAYA - SHILLONG
Received on 29.06.17
Santan Marak
29 JUN 2016

Encl: Filled up copy in **Form – 1 & Action Plan reporting format for PAT Cycle-II.**

Copy to: i) The Director General, Bureau of Energy Efficiency, Govt. of India, Ministry of Power, 4th Floor, SEWA Bahwan, R.K.Puram, New Delhi-110066.

Form-1

Details of information regarding Total Energy Consumed and Specific Energy Consumption Per unit of Production

A.	General Details	Description	
1	Name of the Unit	Shyam Century Ferrous Limited	
2	i) Year of Establishment	2000	
	ii) Registration No (As provided by BEE)	INS0039ML	
3	Sector and Sub-Sector in which the Designated Consumers falls	Sector	Sub-Sector
		Iron & Steel (Sponge Iron)	Ferro Alloy
4. (i)	Complete address of DCs Unit location **(including Chief Executive's name & designation)** with mobile, telephone, fax nos. & e-mail.	Mr. MVK NAGESWARA RAO,CEO,EPIP, RAJABAGAN,BYRNIHAT,RI-BHOI,MEGHALAYA,793101,,03638-200522,9485099191,nageswararao@cmcl.co.in	
(ii)	Registered Office address with telephone, fax nos. & e-mail	LUMSHNONG,KHALIEHRIAT,EAST JAINTIA HILLS,MEGHALAYA,793210,03655-278215/16/18,03655-278217	
(iii)	Energy Manager's Name, designation, Registration No., Address, Mobile, Telephone, Fax nos. & e-mail	Mr.Arvind Rai,ENERGY MANAGER,EA-8391,,EA,03638-200522,9862571299,arvindrai@cmcl.co.in	

B.	Production details			
5	Manufacturing Industries notified as Designated Consumers			
Sr No	Products	Unit	Previous Year (2014-15)	Current Year (2015-16)
		(1)	(2)	(3)
(i)	Product 1: Sponge Iron Production	Tonne	0.00	0.00
(ii)	Product 2: Steel Melting Shop Production	Tonne	0.00	0.00
(iii)	Product 3: Ferro Chrome Production	Tonne	0.00	0.00
(iv)	Product 4: FiMN Production	Tonne	0.00	0.00
(v)	Product 5: SiMn Production	Tonne	0.00	0.00
(vi)	Product 6: Pig Iron Production	Tonne	0.00	0.00
(vii)	Product 7: Ferro Silicon Production	Tonne	14835.00	15104.00
(viii)	Product 8: Rolling Mill Production	Tonne	0.00	0.00
(ix)	Total Equivalent Product SI+SMS+Others	Tonne	0.00	0.00
(x)	Total Equivalent Product SiMn	Tonne	0.00	0.00
(xi)	Total Equivalent Product Ferro Chrome	Tonne	0.00	0.00
(xii)	Total Equivalent product Hot Metal/Pig Iron	Tonne	0.00	0.00
(xiii)	Total Equivalent Product SPU	Tonne	0.00	0.00

C	Energy Consumption Details of Manufacturing Industries notified as Designated Consumers			
Sr No	Item	Unit	Previous Year (2014-15)	Current Year (2015-16)
		(1)	(2)	(3)
6. (i)	Total Electricity Purchased from Grid/Other Source	Million kwh	61.31	65.43
(ii)	Total Electricity Generated	Million kwh	64.21	55.27
(iii)	Total Electricity Exported	Million kwh	0.00	0.00
(iv)	Total Electrical Energy Consumption	Million kwh	125.51	120.69
(v)	Total Solid Fuel Consumption	Million kCal	293069.07	293786.46
(vi)	Total Liquid Fuel Consumption	Million kCal	156.55	40.76
(vii)	Total Gaseous Fuel Consumption	Million kCal	0.00	0.00
(viii)	Total Thermal Energy Consumption	Million kCal	293225.62	293827.22
(ix)	Total Normalized Energy Consumption (Thermal+Electrical)	TOE	34595.22	35009.53

For Shyam Century Ferrous Ltd.

Chief Executive Officer

29/6/16

D	**Specific Energy Consumption Details**			
7. i	Specific Energy Consumption(Without Normalization)	TOE/T	2.33	2.32
ii	Specific Energy Consumption (Normalized)	TOE/T	NA	NA
E	**Power Plants notified as Designated Consumer**			
8. i.	Total Capacity	MW	13.8	13.8
ii	Unit Configuration	No. of units with their capcity	1	1
iii	Annual Gross Generation	MU	64.21	55.27
iv	Annual Plant Load Factor (PLF)	%	88.13	90.17
v	Station Gross Design Heat Rate	kcal/kWh	3250	3250
vi	Station Gross Operative Heat Rate	kcal/kWh	3342	3430
vii	Auxiliary Power Consumption	%	9.89	9.66
viii	Operative Net Heat Rate	kcal/kWh	3709	3797
ix	Operative Net Heat Rate (Normalized)	kcal/kWh		

F	**Sector-Wise Details**		
S.No	**Name of the Sector**	**Sub-Sector**	**Pro-forma in which the details to be furnished**
a	Aluminium	Refinery/Smelter	Sa_1
		Cold Rolling Sheet	Sa_2
b	Cement	Cement	Sb
c	Chlor-Alkali	Chlor-Alkali	Sc
d	Fertilizer	Fertilizer	Sd
e	Iron and Steel	Integrated Steel	Se_1
		Sponge Iron	Se_2
f	Pulp and Paper	Pulp and Paper	Sf
g	Textile	Composite	Sg_1
		Fiber	Sg_2
		Spinning	Sg_3
		Processing	Sg_4
h	Thermal Power Plant	Thermal Power Plant	Sh

I/we undertake that the information supplied in the Form 1 and pro- forma is accurate to the best of my knowledge and the data furnished in Form 1 has been adhered to the data given in the concerned pro forma.

Authorised Signatory and Seal For Shyam Century Ferrous Ltd.

Chief Executive Officer

Name of Authorised Signatory: Mr. M.V.K.Nageswara Rao (CEO)

Name of the Designated Consumer: Shyam Century Ferrous Ltd

Full Address: EPIP, Rajabagan, Byrnihat, RI-BHOI, Meghalaya-793101.

Signature:- 24/6/16

Name of Energy Manager: Mr Arvind Rai

Registration Number: EA-8391

Seal

SHYAM CENTURY FERROUS LTD. PIN : 793101 BYRNIHAT, MEGHALAYA

FORM-Se$_2$ (Details of Production and Energy Consumption)

Iron & Steel (Sponge Iron)

Name of the Unit		Shyam Century Ferrous Limited							
S. No	Particulars		Unit	Year1 (20.... 20...)	Year2 (20.... 20...)	Year 3 /Previous Year (20.... 20...)	Baseline Year (Average of Yr 1 , Yr 2 & Yr3)	Current/Assses ment/Target Year (20.....20....)	Source of Data
A	**Production and capacity utilization details**			**2007-08**	**2008-09**	**2009-10**		**2014-15**	
A1	**Sponge Iron**								
A1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A1.3	Sponge Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A1.4	Sponge Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A1.5	Opening Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.6	Closing Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.7	Number of Kilns		Number	0	0	0	**0.00**	0	
A1.8	Total Kiln Capacity		TPD				**0.00**		
A1.9	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A1.10	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A1.11	Specific Coal Consumption	Annual	t/t				**0.00**		
A1.12	**Thermal SEC**	**A1.9*10^6/A1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.13	**Electrical SEC**	**A1.10*10^5/A1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.14	**Capacity Utilization**	**A1.2x100/A1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A2	**Dolachar**								
A2.1	Dolachar inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A2.2	Dolachar Import	Annual	Tonne	0	0	0	**0.00**	0	
A2.3	Dolachar Export	Annual	Tonne	0	0	0	**0.00**	0	
A2.4	Average Gross calorific value of Dolachar	Annual	kcal/kg				**0.00**		
A2.5	Opening Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A2.6	Closing Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A3	**Coal Fines**								
A3.1	Coal Fines inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A3.2	Coal Fines Import	Annual	Tonne	0	0	0	**0.00**	0	
A3.3	Coal Fines Export	Annual	Tonne	0	0	0	**0.00**	0	
A3.4	Average Gross calorific value of Coal Fines	Annual	kcal/kg				**0.00**		
A3.5	Opening Stock (CoalFines)	Annual	Tonne	0	0	0	**0.00**	0	
A3.6	Closing Stock (Coal Fines)	Annual	Tonne	0	0	0	**0.00**	0	
A4	**Steel Melting Shop**								
A4.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A4.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A4.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A4.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A4.7	Ingot Import	Annual	Tonne	0	0	0	**0.00**	0	
A4.8	Ingot Export	Annual	Tonne	0	0	0	**0.00**	0	
A4.9	**Thermal SEC**	**A4.5*10^6/A4.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.10	**Electrical SEC**	**A4.6*10^5/A4.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.11	**Capacity Utilization**	**A4.2x100/A4.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5	**Ferro Chrome**								
A5.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A5.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A5.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A5.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A5.7	Ferro Chrome Import	Annual	Tonne	0	0	0	**0.00**	0	
A5.8	Ferro Chrome Export	Annual	Tonne	0	0	0	**0.00**	0	
A5.9	**Thermal SEC**	**A5.5*10^6/A5.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.10	**Electrical SEC**	**A5.6*10^5/A5.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.11	**Capacity Utilization**	**A5.2x100/A5.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6	**FeMn**								
A6.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A6.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A6.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A6.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A6.7	FeMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A6.8	FeMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A6.9	**Thermal SEC**	**A6.5*10^6/A6.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.10	**Electrical SEC**	**A6.6*10^5/A6.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.11	**Capacity Utilization**	**A6.2x100/A6.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7	**SiMn**								
A7.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0		**0.00**	0	
A7.2	Production	Annual	Tonne	0	0		**0.00**	0	
A7.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A7.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A7.7	SiMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A7.8	SiMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A7.9	**Thermal SEC**	**A7.5*10^6/A7.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7.10	**Electrical SEC**	**A7.6*10^5/A7.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7.11	**Capacity Utilization**	**A7.2x100/A7.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A8	**Ferro Silicon**								
A8.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	21600	
A8.2	Production	Annual	Tonne	0	0	0	**0.00**	15104	
A8.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A8.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A8.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	104292.26	
A8.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	1142.74765	
A8.7	Pig Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A8.8	Pig Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A8.9	**Thermal SEC**	**A8.5*10^6/A8.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**6904942.83**	
A8.10	**Electrical SEC**	**A8.6*10^5/A8.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**7565.86**	
A8.11	**Capacity Utilization**	**A8.2x100/A8.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**69.93**	
A9	**Pellet plant**								
A9.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A9.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A9.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A9.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A9.7	Pellet Import	Annual	Tonne	0	0	0	**0.00**	0	
A9.8	Pellet Export	Annual	Tonne	0	0	0	**0.00**	0	
A9.9	**Thermal SEC (Per Tonnne of Product)**	**A9.5*10^6/A9.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.10	**Electrical SEC (Per Tonne of Product)**	**A9.6*10^5/A9.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.11	**Capacity Utilization**	**A9.2x100/A9.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
	i) Please include the energy of Pellet plant in the Fuel Consumption section also. The electrical and thermal Energy used in the Pellet plant will not be considered in all the Baseline as well as in the assessment year								
A10	**Mini Blast Furnace**								
A10.1	**Sinter plant**								
A10.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	

A10.1.4	Closing Stock	Annual	Tonne		0	0	**0.00**	0	
A10.1.5	Thermal energy Used	Annual	Million kcal		0	0	**0.00**	0	
A10.1.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.1.7	Sinter Import	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.8	Sinter Export	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.9	**Thermal SEC (Per Tonnne of Product)**	**A10.1.5*10^6/A10.1.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.1.10	**Electrical SEC (Per Tonne of Product)**	**A10.1.6*10^5/A10.1.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.1.11	**Capacity Utilization**	**A10.1.2x100/A10.1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2	**Coke Oven plant**								
A10.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.2.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.5	Thermal energy Used (Other than Coking Coal)	Annual	Million kcal	0	0	0	**0.00**	0	
A10.2.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.2.7	Coke Import	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.8	Coke Export	Annual	Tonne	0	0	0	**0.00**	0	
A10.2.9	**Thermal SEC (Per Tonnne of Product)**	**A10.2.5*10^6/A10.2.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2.10	**Electrical SEC (Per Tonne of Product)**	**A10.2.6*10^5/A10.2.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2.11	**Capacity Utilization**	**A10.2.2x100/A10.2.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3	**Blast Furnace**								
A10.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.3.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A10.3.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.3.7	Hot Metal Import	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.8	Hote Metal Export	Annual	Tonne	0	0	0	**0.00**	0	
A10.3.9	**Thermal SEC (Per Tonnne of Product)**	**A10.3.5*10^6/A10.3.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3.10	**Electrical SEC (Per Tonne of Product)**	**A10.3.6*10^5/A10.3.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3.11	**Capacity Utilization**	**A10.3.2x100/A10.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.4	**Other Aux**								
A10.4.1	Thermal Energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A10.4.2	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A10.5	**Sinter+Coke Oven+MBF+Others Aux**								
A10.5.1	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.2	Total Thermal Energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.3	Total Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.4	**Thermal SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.2*10^6/A10.5.1**	**kcal/thm**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.5	**Electrical SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.3*10^5/A10.5.1**	**kWh/thm**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11	**Pig Iron**								
A11.1	Installed Production Capacity	Annual Installed Capacity	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.2	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.3	Opening Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.4	Closing Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.5	Thermal energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.6	Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.7	Pig Iron Import	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.8	Pig Iron Export	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.9	**Thermal SEC**	**A11.5*10^6/A11.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.10	**Electrical SEC**	**A11.6*10^5/A11.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.11	**Capacity Utilization**	**A11.2x100/A11.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12	**Total Finisied Product (Rolling Mill) [The higher production among the Rolling Mills 1-3 should be filled in the Rolling Mill-1 for making it as a major product]**								
A12.1	**Rolling Mill-1**								
A12.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	**0.00**	0	
A12.1.2	Production	Annual	Tonne		0	0	**0.00**	0	
A12.1.3	Name of Finish Products (Rolling Mills)								
A12.1.4	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.1.5	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.1.6	Thermal energy Used	Annual	Million kcal		0	0	**0.00**	0	
A12.1.7	Electrical Energy Used	Annual	Lakh kwh		0	0	**0.00**	0	
A12.1.8	**Thermal SEC**	**A12.1.6*10^6/A12.1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.1.9	**Electrical SEC**	**A12.1.7*10^5/A12.1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.1.10	**Capacity Utilization**	**A12.1.2x100/A12.1.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2	**Rolling Mill-2**								
A12.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	**0.00**	0	
A12.2.2	Production	Annual	Tonne		0	0	**0.00**	0	
A12.2.3	Name of Finish Products (Rolling Mills)								
A12.2.4	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.2.5	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.2.6	Thermal energy Used	Annual	Million kcal		0	0	**0.00**	0	
A12.2.7	Electrical Energy Used	Annual	Lakh kwh		0	0	**0.00**	0	
A12.2.8	**Thermal SEC**	**A12.2.6*10^6/A12.2.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2.9	**Electrical SEC**	**A12.2.7*10^5/A12.2.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2.10	**Capacity Utilization**	**A12.2.2x100/A12.2.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3	**Rolling Mill-3**								
A12.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	**0.00**	0	
A12.3.2	Production	Annual	Tonne		0	0	**0.00**	0	
A12.3.3	Name of Finish Products (Rolling Mills)								
A12.3.4	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.3.5	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A12.3.6	Thermal energy Used	Annual	Million kcal		0	0	**0.00**	0	
A12.3.7	Electrical Energy Used	Annual	Lakh kwh		0	0	**0.00**	0	
A12.3.8	**Thermal SEC**	**A12.3.6*10^6/A12.3.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3.9	**Electrical SEC**	**A12.3.7*10^5/A12.3.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3.10	**Capacity Utilization**	**A12.3.2x100/A12.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
Note: Additional Mill data sheets are to be attached in the excel form as per above data entry format									
A13.1	**Toatal Rolling Mill Production**	**A12.1.2+A12.2.2+A12.3.2**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A13.2	**Thermal SEC**	**(A12.1.8*A12.1.2+A12.2.8*A12.2.2+A12.3.8*A 12.3.2)/(A12.1.2+A12.2.2+A12.3.2)**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A13.3	**Electrical SEC**	**(A12.1.9*A12.1.2+A12.2.9*A12.2.2+A12.3.9*A 12.3.2)/(A12.1.2+A12.2.2+A12.3.2)**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A14	**SMS Charge**								
A14.1	Qty. of scrap charged in SMS	Annual	Tonne	0			0.00		
A14.2	Qty of DRI (Including Ferro Alloys)charged in SMS	Annual	Tonne	0			0.00		
A14.3	Qty of Pig Iron Charged in SMS	Annual	Tonne	0			0.00		
A14.4	Total Charge in SMS	A14.1+A14.2+A14.3	Tonne	0.00	0.00	0.00	0.00	0.00	
A14.5	% of Scrap used in SMS	A14.1*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.6	% of DRI used in SMS	A14.2*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.7	% of Pig Iron used in SMS	A14.3*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A15	**Kiln/BF/SAF**								
A15.1.1	Kiln-1/BF1 /SAF1 Production	Annual	Tonne	0	0	0	0.00	0	
A15.1.2	Kiln-1/BF1 /SAF1 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.1.3	Kiln-1/BF1 /SAF1 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.1.4	Kiln-1/BF1 /SAF1 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.1.5	Kiln-1/BF1 /SAF1 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.1.6	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.1.7	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.1.8	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.9	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.1.10	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	

A15.1.11	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking pruction into account (Electrical Energy Consumption)	Annual	Lakh kWh	3584	0	0	0.00	0	3575
A15.1.12	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking production into account (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-2/BF2/SAF2								
A15.2.1	Kiln-2/BF2/SAF2 Production	Annual	Tonne	0	0	0	0.00	0	
A15.2.2	Kiln-2/BF2/SAF2 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.2.3	Kiln-2/BF2/SAF2 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.2.4	Kiln-2/BF2/SAF2 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.2.5	Kiln-2/BF2/SAF2Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.2.6	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.2.7	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.2.8	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.9	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.2.10	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.2.11	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.12	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-3/BF3/SAF3								
A15.3.1	Kiln-3/BF3 Production	Annual	Tonne	0	0	0	0.00	0	
A15.3.2	Kiln-3/BF3/SAF3 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.3.3	Kiln-3/BF3 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.3.4	Kiln-3/BF3 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.3.5	Kiln-3/BF3 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.3.6	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.3.7	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.3.8	Kiln-3/BF3 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.9	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.3.10	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.3.11	Kiln-3/BF3 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.12	Kiln-3 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-4,5,6...../BF4,5,6.../SAF4,5,6...								
A15.4.1	Kiln Production	Annual	Tonne	0	0	0	0.00	0	
A15.4.2	Kiln Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.4.3	Kiln Operating Electrical SEC	Annual	kWh/t				0.00		
A15.4.4	Kiln Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.4.5	Kiln Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.4.6	Kiln Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.4.7	Kiln Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.4.8	Kiln Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.9	KilncCold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.4.10	Kiln Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.4.11	Kiln Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.12	Kiln Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
A16	**Note: DCs to provide separate Excel sheet in the Kiln format as specified above If no of kiln exceeds, for additional nos of Kiln installed**								
B	**Boiler Details**								
B1	**From Waste Heat (SI/CO/BF/Others) used for Power generation/Steam Generation**								
B1.1	**Boiler 1**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.2	**Boiler 2**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.3	**Boiler 3**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.4	**Boiler 4**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.5	**Boiler 5**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B2	**Steam Generation Boiler used for Power generation**								
B2.1	**Boiler 6**	**For Steam Generation Boiler**							
(i)	Type							FCB	
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	54.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	215460.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	4223.5	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	34143.1	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00	5550.0	
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	

(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	115.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00	81.5	
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00	67.0	
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	497.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00	814.0	
(xviii)	Design Efficiency		%				0.00	83.0	
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**51.02**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**879.49**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	
B2.2	**Boiler 7**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.3	**Boiler 8**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.4	**Boiler 9**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.5	**Boiler 10**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B3	**Weighted Average Boiler 6-10**	**For Steam Generation Boiler**							
B3.1	**Total Steam Generation (Process Boiler)**	**B2.5(iii)+B2.4(iii)+B2.3(iii)+B2.2(iii)+B2.1(iii)**	**Tonnes**	**0.00**	**0.00**	**0.00**	**0.00**	**215460.00**	
B3.2	**Weighted Operating Efficiency of Boiler (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**81.50**	
B3.3	**Total Operating Capacity of Boilers (Process Boiler)**	**B2.5(xviii)+B2.4(xviii)+B2.3(xviii)+B2.2(xviii)+B 2.1(xviii)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**51.02**	
B3.4	**Weighted Specific Energy Cosumption (Process Boiler)**	**Weighted average of all 5 boilers**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**879.49**	
B3.5	**Weighted Percentage of Coal Energy Used in steam Generation (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**1.00**	
B4	**Note: DCs to provide separate Excel sheet in the Boiler format as specified above if no of boiler exceeds for additional nos of boliers installed for Cogen/Steam**								
C	**Electricity**								
C.1	**Electricity from Grid / Other (Including Colony and Others)**								
(i)	Purchased Electricity from Grid (SEB)	Annual	Lakh kWh	0	0	0	0.00	654.28	

(ii)	Renawble Energy (through Wheeling)	Annual	Lakh kWh		0	0	0.00	0	
(iii)	Electricity from CPP located outside from plant boundary (Through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Renewable purchase Obligation of Plant (RPO) (Solar & Non-Solar)	Annual	%	0	0	0	0.00	0	
(v)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	Lakh kWh	0	0	0	0.00	0	
(vi)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	MW	0	0	0	0.00	0	
(vii)	Renewable Energy generator as approved by MNRE	Annual	MW	0	0	0	0.00	0	
(viii)	Quantum of Renewable Energy Certificates (REC) obtained as a Renewal Energy Generator (Solar & Non-Solar)	Annual	MWh	0	0	0	0.00	2927	
(ix)	Quantum of Energy sold under preferential tariff	Annual	MWh	0	0	0	0.00	0	
(x)	Plant Connected Load		kW		0	0	0.00	25557	
(xi)	Contract demand with utility		kVA		0	0	0.00	0	
(xii)	Notified Baseline SEC		TOE/Tonne			0	0.00		
(xiii)	Notified Target SEC		TOE/Tonne			0	0.00		
(xiv)	Saving Target in TOE/ton of product as per PAT scheme Notification		TOE/Tonne			0.00	0.00		
(xv)	Equivalent Major Product Output in tonnes as per PAT scheme Notification		Tonnes				0.00		
(xvi)	**Total Electricity Purchased from Grid/ others**	**C.1(i)+C.1(ii)+C.1(iii)**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**654.28**	
(xvii)	**Total Electricity Purchased from grid/ Other with out colony/construction power etc**	**IF((C.1(i)+C.1(ii)+C.1(iii))>C.5,((C.1(i)+C.1(ii)+C.1(iii))-C.5),0)**		**0.00**	**0.00**	**0.00**	**0.00**	**654.28**	
(xviii)	**Equivalent Thermal Energy of Purchased Electricity from Grid / Other without colony/construction power etc**	**C.1(xv)x860/10**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**56268.08**	
C.2	**Own Generation**								
C.2.1	**Through DG sets**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	NO	
(ii)	Install Capacity	Annual	MW	0	0	0	0.00	1.44	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0	0	0	0.00	0.1986	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	51.99	
C.2.2	**Captive Power Plant CPP (For other than SID Plant)**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW		0		0.00	13.8	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh		0		0.00	552.459	
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00	9.66	
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00	90.17	
(vii)	Running Hours	Annual	Hours		0	0	0.00	4223.5	
Note	**Please provide information for all CPP in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2…)=DHR1 x C1+DHR2 x C2+…./(C1+C2….)**								
C.2.3	**Through Gas turbine**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hours	0	0	0	0.00	0	
Note	**Please provide information for all GT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2…)=DHR1 x C1+DHR2 x C2+…./(C1+C2….)**								
C.2.4	**Through Gas Generator (GG) sets**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW	0	0	0	0.00	0	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0	0	0	0.00	0	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	**Please provide information for all GG in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2…)=DHR1 x C1+DHR2 x C2+…./(C1+C2….)**								
C.2.5	**Through Coal/Biomass based Boiler and WHRB Steam turbine**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Power Plant Capacity (C)	Annual	MW		0		0.00		
(iii)	Annual Grosss Unit Generation	Annual	Lakh kWh		0		0.00		
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Gross Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	**Please provide information for all WHRBT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2…)=DHR1 x C1+DHR2 x C2+…./(C1+C2….)**								
C.2.6	**Through Co-Generation (Extraction Cum Condensing)**								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	°C				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	°C				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	°C				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6(xiv)*C.2.6(xii))+(C.2.6(xvii)*C.2.6(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6(x)*C.2.6(vii))/1000)-C.2.6(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6(xx)*1000/(C.2.6(vii)*C.2.6(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction Cum Condensing)**	**(C.2.6(xxi)/C.2.6(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.2.6.1	**Through Co-Generation (Extraction/Back Pressure)**								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	°C				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	°C				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						

(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	°C				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6.1(xiv)*C.2.6.1(xiii))+(C.2.6.1(xvii)*C.2.6.1(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6.1(x)*C.2.6.1(vii))/1000-C.2.6.1(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6.1(xx)*1000/(C.2.6.1(vii)*C.2.6.1(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction /Back Pressure)**	**(C.2.6.1(xxi)/C.2.6.1(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiv)	**Total % of thermal energy in Process from Cogen**	**(C.2.5(xx)+C.2.6(xx))/(C.2.6(xxi)+C.2.5(xxi)+C.2.5(xx)+C.2.6(xx))**	**Factor**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.3	**Total Own Generation of Electricity**	**C.2.1.(iii)+C.2.2.(iii)+C.2.3.(iii)+C.2.4.(iii)+C.2.5.(iii)+C.2.6.(iii)**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**552.66**	
C.4	**Electricity Supplied to Grid/others**	**Annual**	**Lakh kWh**		**0**	**0**	**0.00**		
C.5	**Electricity Supplied to Colony/others**	**Annual**	**Lakh kWh**	**0**	**0**	**0**	**0.00**		
C.6	**Electricity Supplied to Grid/Colony/Others from WHRB ST**	**C.4+(IF(C.5>C.1(xiv),(C.5-C.1(xiv)),0)**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.7	**Equivalent Thermal Energy supplied to grid/others**	**C.4*2717/10**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.8	**Total Electricity Consumed in Process and Auxilliaries**	**IF(C.5>C.1(xiv),((C.3-C.4)-(C.5-C.1(xiv)),(C.1(xv)+C.3-C.4))**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**1206.94**	
D	**Solid Fuel Consumption**								
D.1	**Non coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00	6097	
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00	5550	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00	4010	
(iv)	Quantity purchased	Annual	Tonne		0		0.00		
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne		0	0	0.00	34143.1	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne		0	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne		0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne		0		0.00	26008.044	
(x)	**Total Quantity Consumed**	**D.1.(vi)+D.1.(viii)+D.1.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**60151.14**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.1.(ii)*D.1.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**189494.21**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.1.(ii)*D.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.1.(ii)*D.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.1.(iii)*D.1.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**104292.26**	
D.2	**Non Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne		0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne		0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne		0	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne		0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne		0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.2.(vi)+D.2.(viii)+D.2.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.2.(ii)*D.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.2.(ii)*D.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.2.(ii)*D.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.2.(iii)*D.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.3	**Coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.3.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.3.(ii)*D.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.4	**Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.4.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.4.(ii)*D.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.5	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.5.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.5.(ii)*D.5.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.6	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.6.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.6.(ii)*D.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.7	**Coal Fines**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.7.(vii)+D.7.(viii)+D.7.(ix)+D.7.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.7.(ii)*D.7.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.7.(ii)*D.7.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.7.(ii)*D.7.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.7.(iii)*D.7.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.8	**Coal Rejects/Slurry**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.8.(vii)+D.8.(viii)+D.8.(ix)+D.8.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.8.(ii)*D.8.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.8.(ii)*D.8.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.8.(ii)*D.8.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.8.(iii)*D.8.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.9	**Dolachar**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.9.(vii)+D.9.(viii)+D.9.(ix)+D.9.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.9.(ii)*D.9.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.9.(ii)*D.9.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.9.(ii)*D.9.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.9.(iii)*D.9.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.10	**Bio mass or Other purchased Renewable solid fuels (pl. specify) baggase, rice husk, etc.**	**Thermal Energy Input through Biomass not to be taken into account if used in Process**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.10.(vi)+D.10.(vii)+D.10.(viii)+D.10.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.10.(ii)*D.10.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.10.(ii)*D.10.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.10.(ii)*D.10.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.10.(iii)*D.10.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.11	**Solid Waste (pl. specify and refer CPCB guidelines) rubber tyres chips, Municipal Solid waste etc.**	**Thermal Energy Input through solid waste, mentioned in CPCB guidelines, not to be taken into account if used in Process**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.11.(vi)+D.11.(vii)+D.11.(viii)+D.11.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.11.(ii)*D.11.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (WHRB)**	**D.11.(ii)*D.11.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.11.(ii)*D.11.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**D.11.(iii)*D.11.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.12	**Total Solid Energy Used in Power Generation (CPP)**	**IF(OR(C.2.2(i)="yes"),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)))**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**189494.21**	
D.12.1	**Total Solid Energy Used in Power Generation (CPP) for HR**	**D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**189494.21**	
D.13	**Total Solid Energy Used in Power Generation (WHRB)**	**IF(OR(C.2.5(i)="yes"),D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)+D.10.(xiii)+D.11.(xiii),D.1.(xiii)+D.2.(xiii)+D.7(xiii)+D.8.(xiii))**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.13.1	**Total Solid Energy Used in Power Generation (WHRB) for HR**	**,D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.14	**Total Solid Energy Used in Power Generation (Cogen)**	**If(Or(C.2.6(i),C.2.6.1(i)="yes"),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)+D.8(xii)*(1-C.2.6.1(xxiii)+D.9(xii)*(1-c.2.6.1(xxiii)),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.15	**Total Solid Energy Used in Process**	**D.1.(xiv)+D.2.(vxiv)+D.3.(vii)+D.4.(vii)+D.5(xv)+D.6(xiv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**104292.26**	
E	**Liquid Fuel Consumption**								
E.1	**Furnace Oil**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre		0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0		**0.00**		
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0		**0.00**		
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0		0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0		**0.00**		
(ix)	Quantity used for process	Annual	kilo Litre		0	0	**0.00**	0	
(x)	**Total F. Oil Consumption as fuel**	**(E.1.(v)+E.1.(vi)+E.1.(vii)+E.1.(viii)+E.1.(ix))*E.1.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.1.(ii)*E.1.(iv)*E.1.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.1.(ii)*E.1.(iv)*E.1.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.1.(ii)*E.1.(iv)*E.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.1.(ii)*E.1.(iv)*E.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.1.(ii)*E.1.(iv)*E.1.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.2	**Light Sulphur Heavy Stock (LSHS)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total LSHS Consumption as fuel**	**(E.2.(v)+E.2.(vi)+E.2.(vii)+E.2.(viii)+E.2.(ix))*E.2.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.2.(ii)*E.2.(iv)*E.2.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.2.(ii)*E.2.(iv)*E.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.2.(ii)*E.2.(iv)*E.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.2.(ii)*E.2.(iv)*E.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.2.(ii)*E.2.(iv)*E.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.3	**High Sulphur Heavy Stock (HSHS)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total HSHS Consumption as fuel**	**(E.3.(v)+E.3.(vi)+E.3.(vii)+E.3.(viii)+E.3.(ix))*E.3.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.3.(ii)*E.3.(iv)*E.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.3.(ii)*E.3.(iv)*E.3.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.3.(ii)*E.3.(iv)*E.3.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.3.(ii)*E.3.(iv)*E.3.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.3.(ii)*E.3.(iv)*E.3.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.4	**Light Diesel Oil (LDO)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre		0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre		0	0	**0.00**	0	
(x)	**Total LDO Consumption as fuel**	**(E.4.(v)+E.4.(vi)+E.4.(vii)+E.4.(viii)+E.4.(ix))*E.4.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.4.(ii)*E.4.(iv)*E.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.4.(ii)*E.4.(iv)*E.4.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.4.(ii)*E.4.(iv)*E.4.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.4.(ii)*E.4.(iv)*E.4.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.4.(ii)*E.4.(iv)*E.4.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.5	**High Speed Diesel (HSD)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**	10850	
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	71.519	
(iv)	Average Density	Annual	kg/ltr				**0.00**	0.84	
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	4.472	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(viii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for material handling / Transportation (Raw material handling , Loco, etc)	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	Quantity used for process heating	Annual	kilo Litre	0	0	0	**0.00**	0	
(xi)	**Total HSD Consumption as fuel**	**(E.5.(v)+E.5.(vi)+E.5.(vii)+E.5.(viii)+E.5.(ix)+E.5.(x))*E.5.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**3.76**	
(xii)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.5.(ii)*E.5.(iv)*E.5.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**40.76**	
(xiii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.5.(ii)*E.5.(iv)*E.5.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.5.(ii)*E.5.(iv)*E.5.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Power Generation (Transportation)**	**(E.5.(ii)*E.5.(iv)*E.5.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xvi)	**Thermal Energy Used in Process**	**(E.5.(ii)*E.5.(iv)*E.5.(x))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.6	**Liquid Waste (pl. specify and refer CPCB guidelines)**	**Thermal Energy Input through Liquid waste, mentioned in CPCB guidelines, not to be taken into account**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total Liquid waste Consumption as fuel**	**(E.6.(v)+E.6.(vi)+E.6.(vii)+E.6.(viii)+E.6.(ix))*E.6.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.6.(ii)*E.6.(iv)*E.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.6.(ii)*E.6.(iv)*E.6.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.6.(ii)*E.6.(iv)*E.6.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.6.(ii)*E.6.(iv)*E.6.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xvv)	**Thermal Energy Used in Process**	**(E.6.(ii)*E.6.(iv)*E.6.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.7	**Total Liquid Energy Used in Power Generation (DG Set)**	**IF(C.2.1(i)="yes",E.6(xi)+E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi),E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**40.76**	
E.8	**Total Liquid Energy Used in Power Generation (CPP)**	**IF(C.2.2(i)="yes",E.6(xii)+E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii),E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E8.1	**Total Liquid Energy Used in Power Generation (CPP) for HR**	**E.6(xii)+E.5(xii)+E.4(xi)+E3(xi)+E.2(xi)+E.1(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.9	**Thermal Energy Used in Power Generation (WHRB)**	**IF(C.2.3(i)="yes",E.6(xiii)+E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii),E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E9.1	**Thermal Energy Used in Power Generation (WHRB) for HR**	**E.6(xiii)+E.5(xiii)+E.4(xii)+E3(xii)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.10	**Thermal Energy Used in Power Generation (Cogen)**	**IF(OR(C.2.6(i),C.2.6.1(i)="yes"),(E.6(xiv)*(1-C.2.6.1(xxiv))+E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)),E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.11	**Total Liquid Energy Used in Process**	**E.1.(xv)+E.2.(xv)+E.3.(xv)+E.4.(xv)+E.5.(xvi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F	**Gaseous Fuel**								
F.1	**Compressed Natural Gas CNG/PNG/LNG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.1.(iv)+F.1.(v)+F.1.(vi)+F.1.(vii)+F.1.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.1.(ii)*F.1.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.1.(ii)*F.1.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.1.(ii)*F.1.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.1.(ii)*F.1.(vii)+F.1.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.2	**NG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.2.(iv)+F.2.(v)+F.2.(vi)+F.2.(vii)+F.2.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.2.(ii)*F.2.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.2.(ii)*F.2.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.2.(ii)*F.2.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.2.(ii)*F.2.(vii)+F.2.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.3	**CBMG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	

(ix)	Total Gas Consumption as fuel	F.3.(iv)+F.3.(v)+F.3.(vi)+F.3.(vii)+F.3.(viii)	Million SCM	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.3.(ii)*F.3.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.3.(ii)*F.3.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.3.(ii)*F.3.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.3.(ii)*F.3.(vii)+F.3.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.4	LPG								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/kg				0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.4.(iv)+F.4.(v)+F.4.(vi)+F.4.(vii)+F.4.(viii)	Million kg	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.4.(ii)*F.4.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.4.(ii)*F.4.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.4.(ii)*F.4.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.4.(ii)*F.4.(vii)+F.4.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.5	Propane								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/kg				0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	0.00	0	
(ix)	Quantity used as Raw Material	Annual	Million kg	0	0	0	0.00	0	
(x)	Total Gas Consumption as fuel	F.5.(iv)+F.5.(v)+F.5.(vi)+F.5.(vii)+F.5.(viii)	Million kg	0.00	0.00	0.00	0.00	0.00	
(xi)	Thermal Energy Used in Power Generation (GT)	F.5.(ii)*F.5.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (GG)	F.5.(ii)*F.5.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Quantity used for power generation (Cogen)	F.5.(ii)*F.5.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiv)	Thermal Energy Used in Process	F.5.(ii)*F.5.(vii)+F.5.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.6	Naptha								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Gross calorific value	Annual	kcal/kg				0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	0.00	0	
(ix)	Total Gas Consumption as fuel	F.6.(iv)+F.6.(v)+F.6.(vi)+F.6.(vii)+F.6.(viii)	Million kg	0.00	0.00	0.00	0.00	0.00	
(x)	Thermal Energy Used in Power Generation (GT)	F.6.(ii)*F.6.(iv)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xi)	Quantity used for power generation (GG)	F.6.(ii)*F.6.(v)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xii)	Quantity used for power generation (Cogen)	F.6.(ii)*F.6.(vi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xiii)	Thermal Energy Used in Process	F.6.(ii)*F.6.(vii)+F.6.(viii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.7	Quantity used for power generation (GT)	F.1.(x)+F.2.(x)+F.3.(x)+F.4.(x)+F.5.(x)+F.6.(x)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.8	Quantity used for power generation (GG)	F.1.(xi)+F.2.(xi)+F.3.(xi)+F.4.(xi)+F.5.(xi)+F.6.(xi)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.9	Quantity used for power generation (Cogen)	F.1.(xii)+F.2.(xii)+F.3.(xii)+F.4.(xii)+F.5.(xii)+F.6.(xii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.10	Total Gaseous Energy Used in Process	F.1.(xiii)+F.2.(xiii)+F.3.(xiii)+F.4.(xiii)+F.5.(xiii)+F.6.(xiii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.11	Gas Import/Export (All type of Gaseous Fuel)								
F.11.1	Gas Import								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	Thermal Energy for Imported Gas	F.11.1 (i) x F.11.1 (ii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
F.11.2	Gas Export								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	Thermal Energy for Exported Gas	F.12.1 (i) x F.12.1 (ii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(iv)	Total thermal Energy for Gas (Import-Export)	F.11.1 (iii) - F.12.1 (iii)	Million kcal	0.00	0.00	0.00	0.00	0.00	
G	Total Thermal Energy								
G.1	Total Thermal Energy Used in Power Generation	F.7+F.8+F.9+E.7+E.8+E.9+E.10+D.10+D.11+D.12	Million kcal	0.00	0.00	0.00	0.00	189534.96	
G.2	Total Thermal Energy Used in Process	D.13+E.11+F.10	Million kcal	0.00	0.00	0.00	0.00	104292.26	
G.3	Total Thermal Energy Input through all Fuels	G.1+G.2+F.11.2(iv)	Million kcal	0.00	0.00	0.00	0.00	293827.22	
H	Gross Heat Rate								
H.1	Gross Heat Rate of DG Set	E.7x10/C.2.1.(iii)	kcal/kWh	0.00	0.00	0.00	0.00	2052.26	
H.2	Gross Heat Rate of CPP (Steam Turbine)	(D.7+E.8)x10/C.2.2.(ii)	kcal/kWh	0.00	0.00	0.00	0.00	3430.01	
H.3	Grross Heat Rate of WHRB Turbine	(E9.1+D.12)*10/C.2.5(iii)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.4	Gross Heat Rate of CPP (Gas Turbine)	F.3x10/C.2.3.(ii)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.5	Gross Heat Rate of Gas Generator (GG)	F.8*10/C.2.4(iii)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.6	Gross Heat Rate of CoGen (Condensing)	C.2.6(vii)*C.2.6(x)-C.2.6(xiii)*C.2.6(xiv)-C.2.6(xvii)*C.2.6(xviii)*1000/((B3.2/100)*C.2.6(iii)*10^5)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.7	Gross Heat Rate of CoGen (Extraction)	C.2.6.1(vii)*C.2.6.1(x)-C.2.6.1(xiii)*C.2.6.1(xiv)-C.2.6.1(Xvii)*C.2.6.1(xviii)*1000/((B3.2/100)*C.2.6.1(iii)*10^5)	kcal/kWh	0.00	0.00	0.00	0.00	0.00	
H.6	Weighted Average Heat Rate	H.1*C.2.1(iii)+H.2*C.2.2(iii)+H.3*C.2.5(iii)+H.4*C.2.3(iii)+H.5*C.2.4(iii)+H.6*C.2.6(iii)+H.7*C.2.6.1(iii)+C.1.(xiv)*860/C.2.1(iii)+C.2.2(iii)+C.2.5(iii)+C.2.4(iii)+C.2.6(iii)+C.2.6.1(iii)+C.1.(xiv)	kcal/kWh	0.00	0.00	0.00	0.00	2036.58	
I	Performance Indicators (MBF)								
I.1	SEC of Other Products		Fuel consumtion / tonne of products	0	0	0	0.00	0	
I.2	SEC of Other Products		kWh/T	0	0	0	0.00	0	
I.3	Sinter SEC		Gkal/tp	0	0	0	0.00	0	
I.4	Sinter SEC		Gkal/ tcs	0	0	0	0.00	0	
I.5	Blast Furnace (B.F.) SEC		Gkal/tp	0	0	0	0.00	0	
I.6	Blast Furnace (B.F.) SEC		Gkal/ tcs	0	0	0	0.00	0	
J	Raw Material Quality								
J.1	FeT in Iron ore		%	0	0	0	0.00	0	
J.2	Ash % in Non Coking Coal		%	0	0	0	0.00	0	
J.3	GCV of Non Coking Coal		Kcal/kg	0	0	0	0.00	0	
J.4	Ash % in Coking Coal		%	0	0	0	0.00	0	
K	Coal Quality in CPP/Boiler (As Fired Basis)								
i	Ash	Annual	%				0.00	0	
ii	Moisture	Annual	%				0.00	0	
iii	Hydrogen	Annual	%				0.00	0	
iv	GCV	Annual	kcal/kg				0.00	0	
L	Miscelleneous Data $								
L.1	Additional Equipment installation after baseline year due to Environmental Concern								

435
3591
3582

(i)	**Additional Electrical Energy Consumed**	**Annual**	**Lakh kWh**					**0.00**	
(ii)	**Additional Thermal Energy Consumed**	**Annual**	**Million kcal**					**0.00**	
L.2	**Biomass/ Alternate Fuel availability**								
(i)	Biomass replacement with Fossil fuel due to Biomass un-availbility (used in the process)	Annual	Tonne					0.00	
(ii)	Alternate Solid Fuel replacement with Fossil fuel due to Alternate Solid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
(iii)	Alternate Liquid Fuel replacement with Fossil fuel due to Alternate Liquid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
L.3	**Project Activities (Construction Phase)**								
(i)	**Electrical Energy Consumed due to commissioning of Equipment**	**Annual**	**Lakh kWh**					**0.00**	
(ii)	**Thermal Energy Consumed due to commissioning of Equipment**	**Annual**	**Million kcal**					**0.00**	
L.4	**New Line/Unit Commissioning**								
(i)	Electrical Energy Consumed due to commissioning of New process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy Consumed due to commissioning of New Process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Million kcal					0.00	
(iii)	SI from DRI route Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(iv)	Pig Iron Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(v)	Date of Commissioning (70% Capacity Utilisation)	Date						0.00	
(vi)	Electrical Energy Consumed from external source due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Lakh kWh					0.00	
(vii)	Thermal Energy Consumed due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Million kcal					0.00	
(viii)	Steam Generation From Co-Gen till New Line /Unit attains 70% of Capacity Utilisation	Annual	Ton					0.00	
(ix)	Net Electricity Genration till new line/ Unit attains 70% Capacity Utilisation	Annual	Lakh kWh					0.00	
(x)	Date of Commissioning (70% Capacity Utilisation)	Date						0.00	
L.5	**Unforeseen Circumstances**								
(i)	Electrical Energy to be Normalised	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy to be Normalised	Annual	Million kcal					0.00	
$ Authentic documents in support of claim in Thermal and Electrical Energy is required									
M	Documentation for Normalisation								
(i)	Scrap % -Document Available for Normalisation		Yes/No	No	No	No	No	No	
(ii)	Start Stop-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(iii)	Fuel Quality in CPP & Co-Gen -Document Available for Normalisation		Yes/No	No	No	No	No	Yes	
(iv)	Power Mix-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(v)	Intermediate Product-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(vi)	Other Factos - Document Available for Normalisation		Yes/No	No	No	No	No	No	
N	**Energy Saving and Investment**	**Annual**	**Million Rs**						
(i)	Investment made for achieving target	Annual	Million Rs	0.00	0.00	0.00	**0.00**		
(ii)	**Thermal Energy Saving during the year**								
a	**Solid Fuel**								
a.1	Coal	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.2	Lignite	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.3	Petro Coke	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.4	Biomass/Waste	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
b	**Liquid Fuel (FO/HSD/LDO/LSHS/HSHS)**	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
c	**Gaseous Fuel**	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
(iii)	Electrical energy Saving during the year	Annual	Lakh kWH	0.00	0.00	0.00	**0.00**	0.00	
O	**Process Flow Diagram Attached**	**Yes/No**					**Yes**		

	Please enter numeric values or leave blank
0	**Please eneter numeric value or "0"**
	Fomulae Protected
Yes	Select from the list Yes or No
	Data not to be filled
	Please enter text value

We ……undertake that information furnished in the Sectror Specific Form I are complete and acciurate to the best of my knowledge. I also undertake that the information provided for Normalisation is limited to external factors only.

Signature of Energy Manager
Name

Date:

Place:

(Signature of the Chief Executive)

Organisation Seal

Shyam Century Ferrous Ltd.

Regd. Office.: Vill.:Lumshnong, PO: Khallehriat, Dist. East Jaintia Hills, Meghalaya – 793210, Phone No- 03655-278215/16/18,
Fax : 03655-278217, E-mail ID -investors@shyamcenturyferrous.com, Website – www.shyamcenturyferrous.com
CIN- U27310ML2011PLC008578

Annexure R/20

Ref: SCF/PERS/2017-18/001
Date: 24th June, 2017

To
The Sr. Electrical Inspector &
State Designated Agency on Energy Conservation
Meghalaya, Shillong

Sub : Submission of FORM-1 for the FY-2016-17 & FORM-3

Dear Sir,

Please find furnished **Form – 1** for the FY-2016-17 & Implementation of Energy Savings Measures in **FORM-3** of our plant enclosed herewith.

This is for your kind information please.

Thanking you,

Yours faithfully,

For Shyam Century Ferrous Ltd.

SHYAM CENTURY FERROUS LTD. PIN : 793101 BYRNIHAT, MEGHALAYA

M.V.K. Nageswara Rao
(Chief Executive Officer)
Phone. No. 9485099191
email: nageswararao@starcement.co.in

Encl: Filled up copy in **Form – 1** & **Implementation of Energy Savings Measures in FORM-3**.

Copy to: i) The Director General, Bureau of Energy Efficiency, Govt. of India, Ministry of Power, 4th Floor, SEWA Bahwan, R.K.Puram, New Delhi-110066.

Recd on 27/6/17
Senior Electrical Inspector
Inspectorate of Electricity
Meghalaya, Shillong.

Form-1

Details of information regarding Total Energy Consumed and Specific Energy Consumption Per unit of Production
(See Rule 3)

A.	General Details	Description	
1	Name of the Unit	Shyam Century Ferrous Limited	
2	i) Year of Establishment	2000	
	ii) Registration No (As provided by BEE)	INS0039ML	
3	Sector and Sub-Sector in which the Designated Consumers falls	Sector	Sub-Sector
		Iron & Steel (Sponge Iron)	Ferro Alloy
4. (i)	Complete address of DCs Unit location **(including Chief Executive's name & designation)** with mobile, telephone, fax nos. & e-mail.	Mr. MVK NAGESWARA RAO,CEO,EPIP, RAJABAGAN,BYRNIHAT,RI-BHOI,MEGHALAYA,793101,,03638-200522,9485099191,nageswararao@starcement.co in	
(ii)	Registered Office address with telephone, fax nos. & e-mail	LUMSHNONG,KHALIEHRIAT,EAST JAINTIA HILLS,MEGHALAYA,793210,03655-278215/16/18,03655-278217	
(iii)	Energy Manager's Name, designation, Registration No., Address, Mobile, Telephone, Fax nos. & e-mail	Mr.Arvind Rai,ENERGY MANAGER,EA-8391,,EA,03638-200522,9862571299,arvindrai@starcement.co.in	

B.	Production details			
5	Manufacturing Industries notified as Designated Consumers			
Sr No	Products	Unit	Previous Year (2015-16)	Current Year (2016-17)
		(1)	(2)	(3)
(i)	Product 1: Sponge Iron Production	Tonne	0.00	0.00
(ii)	Product 2: Steel Melting Shop Production	Tonne	0.00	0.00
(iii)	Product 3: Ferro Chrome Production	Tonne	0.00	0.00
(iv)	Product 4: FiMN Production	Tonne	0.00	0.00
(v)	Product 5: SiMn Production	Tonne	0.00	0.00
(vi)	Product 6: Pig Iron Production	Tonne	0.00	0.00
(vii)	Product 7: Ferro Silicon Production	Tonne	0.00	0.00
(viii)	Product 8: Rolling Mill Production	Tonne	15104.00	12605.00
(ix)	Total Equivalent Product SI+SMS+Others	Tonne	0.00	0.00
(x)	Total Equivalent Product SiMn	Tonne	0.00	0.00
(xi)	Total Equivalent Product Ferro Chrome	Tonne	0.00	0.00
(xii)	Total Equivalent product Hot Metal/Pig Iron	Tonne	0.00	0.00
(xiii)	Total Equivalent Product SPU	Tonne	0.00	0.00

C	Energy Consumption Details of Manufacturing Industries notified as Designated Consumers			
Sr No	Item	Unit	Previous Year (2015-16)	Current Year (2016-17)
		(1)	(2)	(3)
6. (i)	Total Electricity Purchased from Grid/Other Source	Million kwh	65.43	1.22
(ii)	Total Electricity Generated	Million kwh	55.27	104.54
(iii)	Total Electricity Exported	Million kwh	0.00	0.00
(iv)	Total Electrical Energy Consumption	Million kwh	120.48	105.59
(v)	Total Solid Fuel Consumption	Million kCal	293786.46	362571.09
(vi)	Total Liquid Fuel Consumption	Million kCal	40.76	282.77
(vii)	Total Gaseous Fuel Consumption	Million kCal	0.00	0.00
(viii)	Total Thermal Energy Consumption	Million kCal	293827.22	362853.86
(ix)	Total Normalized Energy Consumption (Thermal+Electrical)	TOE	34991.47	27320.57

Shyam Century Ferrous L...

Chief Executive Officer

D	**Specific Energy Consumption Details**			
7. i	Specific Energy Consumption(Without Normalization)	TOE/T	0.00	0.00
ii	Specific Energy Consumption (Normalized)	TOE/T	NA	NA

E	**Power Plants notified as Designated Consumer**			
8. i.	Total Capacity	MW		
ii	Unit Configuration	No. of units with their capcity		
iii	Annual Gross Generation	MU		
iv	Annual Plant Load Factor (PLF)	%		
v	Station Gross Design Heat Rate	kcal/kWh		
vi	Station Gross Operative Heat Rate	kcal/kWh		
vii	Auxiliary Power Consumption	%		
viii	Operative Net Heat Rate	kcal/kWh		
ix	Operative Net Heat Rate (Normalized)	kcal/kWh		

F	**Sector-Wise Details**		
S.No	**Name of the Sector**	**Sub-Sector**	**Pro-forma in which the details to be furnished**
a	Aluminium	Refinery/Smelter	Sa_1
		Cold Rolling Sheet	Sa_2
b	Cement	Cement	Sb
c	Chlor-Alkali	Chlor-Alkali	Sc
d	Fertilizer	Fertilizer	Sd
e	Iron and Steel	Integrated Steel	Se_1
		Sponge Iron	Se_2
f	Pulp and Paper	Pulp and Paper	Sf
g	Textile	Composite	Sg_1
		Fiber	Sg_2
		Spinning	Sg_3
		Processing	Sg_4
h	Thermal Power Plant	Thermal Power Plant	Sh

I/we undertake that the information supplied in the Form 1 and pro- forma is accurate to the best of my knowledge and the data furnished in Form 1 has been adhered to the data given in the concerned pro forma.

Authorised Signatory and Seal

For Shyam Century Ferrous Ltd.

Chief Executive Officer

Name of Authorised Signatory: **Mr. M.V.K.Nageswara Rao (CEO)**

Name of the Designated Consumer: **Shyam Century Ferrous Ltd**

Full Address: EPIP, Rajabagan, Byrnihat, RI-BHOI, Meghalaya-793101.

Signature:-

Name of Energy Manager: Mr Arvind Rai

Registration Number: EA-8391

Seal

SHYAM CENTURY FERROUS LTD. PIN : 793101 BYRNIHAT, MEGHALAYA

For, Shyam Century Ferrous Ltd.

Arvind Rai

Energy Manager (EA-8391)

FORM-Se$_2$ (Details of Production and Energy Consumption)

Iron & Steel (Sponge Iron)

4399 3595 3586

Name of the Unit		Shyam Century Ferrous Limited							
S. No	**Particulars**		**Unit**	**Year1 (20.... 20...)**	**Year2 (20.... 20...)**	**Year 3 /Previous Year (20.... 20...)**	**Baseline Year (Average of Yr 1 , Yr 2 & Yr3)**	**Current/Asssesment/Target Year (20.....20....)**	**Source of Data**
A	**Production and capacity utilization details**			**2007-08**	**2008-09**	**2009-10**		**2014-15**	
A1	**Sponge Iron**								
A1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A1.3	Sponge Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A1.4	Sponge Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A1.5	Opening Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.6	Closing Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.7	Number of Kilns		Number	0	0	0	**0.00**	0	
A1.8	Total Kiln Capacity		TPD				**0.00**		
A1.9	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A1.10	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A1.11	Specific Coal Consumption	Annual	t/t				**0.00**		
A1.12	**Thermal SEC**	**A1.9*10^6/A1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.13	**Electrical SEC**	**A1.10*10^5/A1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.14	**Capacity Utilization**	**A1.2x100/A1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A2	**Dolachar**								
A2.1	Dolachar inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A2.2	Dolachar Import	Annual	Tonne	0	0	0	**0.00**	0	
A2.3	Dolachar Export	Annual	Tonne	0	0	0	**0.00**	0	
A2.4	Average Gross calorific value of Dolachar	Annual	kcal/kg				**0.00**		
A2.5	Opening Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A2.6	Closing Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A3	**Coal Fines**								
A3.1	Coal Fines inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A3.2	Coal Fines Import	Annual	Tonne	0	0	0	**0.00**	0	
A3.3	Coal Fines Export	Annual	Tonne	0	0	0	**0.00**	0	
A3.4	Average Gross calorific value of Coal Fines	Annual	kcal/kg				**0.00**		
A3.5	Opening Stock (CoalFines)	Annual	Tonne	0	0	0	**0.00**	0	
A3.6	Closing Stock (Coal Fines)	Annual	Tonne	0	0	0	**0.00**	0	
A4	**Steel Melting Shop**								
A4.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A4.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A4.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A4.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A4.7	Ingot Import	Annual	Tonne	0	0	0	**0.00**	0	
A4.8	Ingot Export	Annual	Tonne	0	0	0	**0.00**	0	
A4.9	**Thermal SEC**	**A4.5*10^6/A4.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.10	**Electrical SEC**	**A4.6*10^5/A4.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.11	**Capacity Utilization**	**A4.2x100/A4.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5	**Ferro Chrome**								
A5.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A5.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A5.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A5.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A5.7	Ferro Chrome Import	Annual	Tonne	0	0	0	**0.00**	0	
A5.8	Ferro Chrome Export	Annual	Tonne	0	0	0	**0.00**	0	
A5.9	**Thermal SEC**	**A5.5*10^6/A5.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.10	**Electrical SEC**	**A5.6*10^5/A5.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.11	**Capacity Utilization**	**A5.2x100/A5.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6	**FeMn**								
A6.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A6.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A6.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A6.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A6.7	FeMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A6.8	FeMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A6.9	**Thermal SEC**	**A6.5*10^6/A6.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.10	**Electrical SEC**	**A6.6*10^5/A6.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.11	**Capacity Utilization**	**A6.2x100/A6.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7	**SiMn**								
A7.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0		**0.00**	0	
A7.2	Production	Annual	Tonne	0	0		**0.00**	0	
A7.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A7.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A7.7	SiMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A7.8	SiMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A7.9	**Thermal SEC**	**A7.5*10^6/A7.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7.10	**Electrical SEC**	**A7.6*10^5/A7.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7.11	**Capacity Utilization**	**A7.2x100/A7.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A8	**Ferro Silicon**								
A8.1	Installed Production Capacity	Annual Installed Capacity	Tonne	21600	21600	21600	**21600.00**	21600	
A8.2	Production	Annual	Tonne	15104	15104	15104	**15104.00**	12605	
A8.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A8.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A8.5	Thermal energy Used	Annual	Million kcal	104292.26	104292.26	104292.26	**104292.26**	104193.62	
A8.6	Electrical Energy Used	Annual	Lakh kwh	1142.74765	1142.74765	1142.74765	**1142.75**	950.4053	
A8.7	Pig Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A8.8	Pig Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A8.9	**Thermal SEC**	**A8.5*10^6/A8.2**	**kcal/Tonne**	**6904943.06**	**6904943.06**	**6904943.06**	**6904943.06**	**8266055.14**	
A8.10	**Electrical SEC**	**A8.6*10^5/A8.2**	**kWh/Tonne**	**7565.86**	**7565.86**	**7565.86**	**7565.86**	**7539.91**	
A8.11	**Capacity Utilization**	**A8.2x100/A8.1**	**%**	**69.93**	**69.93**	**69.93**	**69.93**	**58.36**	
A9	**Pellet plant**								
A9.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A9.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A9.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A9.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A9.7	Pellet Import	Annual	Tonne	0	0	0	**0.00**	0	
A9.8	Pellet Export	Annual	Tonne	0	0	0	**0.00**	0	
A9.9	**Thermal SEC (Per Tonnne of Product)**	**A9.5*10^6/A9.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.10	**Electrical SEC (Per Tonne of Product)**	**A9.6*10^5/A9.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

A9.11	Capacity Utilization	A9.2x100/A9.1	%	0.00	0.00	0.00	0.00	0.00	
	i) Please include the energy of Pellet plant in the Fuel Consumption section also. The electrical and thermal Energy used in the Pellet plant will not be considered in all the Baseline as well as in the assessment year								
A10	Mini Blast Furnace								
A10.1	Sinter plant								
A10.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	0.00	0	
A10.1.2	Production	Annual	Tonne	0	0	0	0.00	0	
A10.1.3	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A10.1.4	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A10.1.5	Thermal energy Used	Annual	Million kcal	0	0	0	0.00	0	
A10.1.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.1.7	Sinter Import	Annual	Tonne	0	0	0	0.00	0	
A10.1.8	Sinter Export	Annual	Tonne	0	0	0	0.00	0	
A10.1.9	Thermal SEC (Per Tonnne of Product)	A10.1.5*10^6/A10.1.2	kcal/tp	0.00	0.00	0.00	0.00	0.00	
A10.1.10	Electrical SEC (Per Tonne of Product)	A10.1.6*10^5/A10.1.2	kWh/tp	0.00	0.00	0.00	0.00	0.00	
A10.1.11	Capacity Utilization	A10.1.2x100/A10.1.1	%	0.00	0.00	0.00	0.00	0.00	
A10.2	Coke Oven plant								
A10.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	0.00	0	
A10.2.2	Production	Annual	Tonne	0	0	0	0.00	0	
A10.2.3	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A10.2.4	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A10.2.5	Thermal energy Used (Other than Coking Coal)	Annual	Million kcal	0	0	0	0.00	0	
A10.2.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.2.7	Coke Import	Annual	Tonne	0	0	0	0.00	0	
A10.2.8	Coke Export	Annual	Tonne	0	0	0	0.00	0	
A10.2.9	Thermal SEC (Per Tonnne of Product)	A10.2.5*10^6/A10.2.2	kcal/tp	0.00	0.00	0.00	0.00	0.00	
A10.2.10	Electrical SEC (Per Tonne of Product)	A10.2.6*10^5/A10.2.2	kWh/tp	0.00	0.00	0.00	0.00	0.00	
A10.2.11	Capacity Utilization	A10.2.2x100/A10.2.1	%	0.00	0.00	0.00	0.00	0.00	
A10.3	Blast Furnace								
A10.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	0.00	0	
A10.3.2	Production	Annual	Tonne	0	0	0	0.00	0	
A10.3.3	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A10.3.4	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A10.3.5	Thermal energy Used	Annual	Million kcal	0	0	0	0.00	0	
A10.3.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.3.7	Hot Metal Import	Annual	Tonne	0	0	0	0.00	0	
A10.3.8	Hote Metal Export	Annual	Tonne	0	0	0	0.00	0	
A10.3.9	Thermal SEC (Per Tonnne of Product)	A10.3.5*10^6/A10.3.2	kcal/tp	0.00	0.00	0.00	0.00	0.00	
A10.3.10	Electrical SEC (Per Tonne of Product)	A10.3.6*10^5/A10.3.2	kWh/tp	0.00	0.00	0.00	0.00	0.00	
A10.3.11	Capacity Utilization	A10.3.2x100/A10.3.1	Tonne	0.00	0.00	0.00	0.00	0.00	
A10.4	Other Aux								
A10.4.1	Thermal Energy Used	Annual	Million kcal	0	0	0	0.00	0	
A10.4.2	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.5	Sinter+Coke Oven+MBF+Others Aux								
A10.5.1	Production	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
A10.5.2	Total Thermal Energy Used	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
A10.5.3	Total Electrical Energy Used	Annual	Lakh kwh	0.00	0.00	0.00	0.00	0.00	
A10.5.4	Thermal SEC up to MBF (Per Tonne of Hot Metal)	A10.5.2*10^6/A10.5.1	kcal/thm	0.00	0.00	0.00	0.00	0.00	
A10.5.5	Electrical SEC up to MBF (Per Tonne of Hot Metal)	A10.5.3*10^5/A10.5.1	kWh/thm	0.00	0.00	0.00	0.00	0.00	
A11	Pig Iron								
A11.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0.00	0.00	0.00	0.00	0.00	
A11.2	Production	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
A11.3	Opening Stock	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
A11.4	Closing Stock	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
A11.5	Thermal energy Used	Annual	Million kcal	0.00	0.00	0.00	0.00	0.00	
A11.6	Electrical Energy Used	Annual	Lakh kwh	0.00	0.00	0.00	0.00	0.00	
A11.7	Pig Iron Import	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
A11.8	Pig Iron Export	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
A11.9	Thermal SEC	A11.5*10^6/A11.2	kcal/tp	0.00	0.00	0.00	0.00	0.00	
A11.10	Electrical SEC	A11.6*10^5/A11.2	kWh/tp	0.00	0.00	0.00	0.00	0.00	
A11.11	Capacity Utilization	A11.2x100/A11.1	%	0.00	0.00	0.00	0.00	0.00	
A12	Total Finisied Product (Rolling Mill) [The higher production among the Rolling Mills 1-3 should be filled in the Rolling Mill-1 for making it as a major product]								
A12.1	Rolling Mill-1								
A12.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	0.00	0	
A12.1.2	Production	Annual	Tonne		0	0	0.00	0	
A12.1.3	Name of Finish Products (Rolling Mills)								
A12.1.4	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A12.1.5	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A12.1.6	Thermal energy Used	Annual	Million kcal		0	0	0.00	0	
A12.1.7	Electrical Energy Used	Annual	Lakh kwh		0	0	0.00	0	
A12.1.8	Thermal SEC	A12.1.6*10^6/A12.1.2	kcal/Tonne	0.00	0.00	0.00	0.00	0.00	
A12.1.9	Electrical SEC	A12.1.7*10^5/A12.1.2	kWh/Tonne	0.00	0.00	0.00	0.00	0.00	
A12.1.10	Capacity Utilization	A12.1.2x100/A12.1.1	Tonne	0.00	0.00	0.00	0.00	0.00	
A12.2	Rolling Mill-2								
A12.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	0.00	0	
A12.2.2	Production	Annual	Tonne		0	0	0.00	0	
A12.2.3	Name of Finish Products (Rolling Mills)								
A12.2.4	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A12.2.5	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A12.2.6	Thermal energy Used	Annual	Million kcal		0	0	0.00	0	
A12.2.7	Electrical Energy Used	Annual	Lakh kwh		0	0	0.00	0	
A12.2.8	Thermal SEC	A12.2.6*10^6/A12.2.2	kcal/Tonne	0.00	0.00	0.00	0.00	0.00	
A12.2.9	Electrical SEC	A12.2.7*10^5/A12.2.2	kWh/Tonne	0.00	0.00	0.00	0.00	0.00	
A12.2.10	Capacity Utilization	A12.2.2x100/A12.2.1	Tonne	0.00	0.00	0.00	0.00	0.00	
A12.3	Rolling Mill-3								
A12.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	0.00	0	
A12.3.2	Production	Annual	Tonne		0	0	0.00	0	
A12.3.3	Name of Finish Products (Rolling Mills)								
A12.3.4	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A12.3.5	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A12.3.6	Thermal energy Used	Annual	Million kcal		0	0	0.00	0	
A12.3.7	Electrical Energy Used	Annual	Lakh kwh		0	0	0.00	0	
A12.3.8	Thermal SEC	A12.3.6*10^6/A12.3.2	kcal/Tonne	0.00	0.00	0.00	0.00	0.00	
A12.3.9	Electrical SEC	A12.3.7*10^5/A12.3.2	kWh/Tonne	0.00	0.00	0.00	0.00	0.00	
A12.3.10	Capacity Utilization	A12.3.2x100/A12.3.1	Tonne	0.00	0.00	0.00	0.00	0.00	
Note: Additional Mill data sheets are to be attached in the excel form as per above data entry format									
A13.1	Toatal Rolling Mill Production	A12.1.2+A12.2.2+A12.3.2	Tonne	0.00	0.00	0.00	0.00	0.00	
A13.2	Thermal SEC	(A12.1.8*A12.1.2+A12.2.8*A12.2.2+A12.3.8*A12.3.2)/(A12.1.2+A12.2.2+A12.3.2)	kcal/Tonne	0.00	0.00	0.00	0.00	0.00	
A13.3	Electrical SEC	(A12.1.9*A12.1.2+A12.2.9*A12.2.2+A12.3.9*A12.3.2)/(A12.1.2+A12.2.2+A12.3.2)	kWh/Tonne	0.00	0.00	0.00	0.00	0.00	
A14	SMS Charge								
A14.1	Qty. of scrap charged in SMS	Annual	Tonne	0			0.00		
A14.2	Qty of DRI (Including Ferro Alloys)charged in SMS	Annual	Tonne	0			0.00		
A14.3	Qty of Pig Iron Charged in SMS	Annual	Tonne	0			0.00		
A14.4	Total Charge in SMS	A14.1+A14.2+A14.3	Tonne	0.00	0.00	0.00	0.00	0.00	
A14.5	% of Scrap used in SMS	A14.1*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.6	% of DRI used in SMS	A14.2*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	

A14.7	% of Pig Iron used in SMS	A14.3*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A15	**Kiln/BF/SAF**								3588
A15.1.1	Kiln-1/BF1 /SAF1 Production	Annual	Tonne	0	0	0	0.00	0	
A15.1.2	Kiln-1/BF1 /SAF1 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.1.3	Kiln-1/BF1 /SAF1 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.1.4	Kiln-1/BF1 /SAF1 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.1.5	Kiln-1/BF1 /SAF1 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.1.6	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.1.7	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.1.8	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.9	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.1.10	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.1.11	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking pruction into account (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.12	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking production into account (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-2/BF2/SAF2								
A15.2.1	Kiln-2/BF2/SAF2 Production	Annual	Tonne	0	0	0	0.00	0	
A15.2.2	Kiln-2/BF2/SAF2 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.2.3	Kiln-2/BF2/SAF2 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.2.4	Kiln-2/BF2/SAF2 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.2.5	Kiln-2/BF2/SAF2Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.2.6	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.2.7	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.2.8	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.9	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.2.10	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.2.11	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.12	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-3/BF3/SAF3								
A15.3.1	Kiln-3/BF3 Production	Annual	Tonne	0	0	0	0.00	0	
A15.3.2	Kiln-3/BF3/SAF3 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.3.3	Kiln-3/BF3 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.3.4	Kiln-3/BF3 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.3.5	Kiln-3/BF3 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.3.6	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.3.7	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.3.8	Kiln-3/BF3 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.9	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.3.10	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.3.11	Kiln-3/BF3 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.12	Kiln-3 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-4,5,6...../BF4,5,6.../SAF4,5,6...								
A15.4.1	Kiln Production	Annual	Tonne	0	0	0	0.00	0	
A15.4.2	Kiln Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.4.3	Kiln Operating Electrical SEC	Annual	kWh/t				0.00		
A15.4.4	Kiln Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.4.5	Kiln Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.4.6	Kiln Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.4.7	Kiln Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.4.8	Kiln Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.9	KilncCold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.4.10	Kiln Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.4.11	Kiln Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.12	Kiln Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
A16	**Note: DCs to provide separate Excel sheet in the Kiln format as specified above If no of kiln exceeds, for additional nos of Kiln installed**								
B	**Boiler Details**								
B1	**From Waste Heat (SI/CO/BF/Others) used for Power generation/Steam Generation**								
B1.1	**Boiler 1**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.2	**Boiler 2**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.3	**Boiler 3**	**From Waste Heat (SI/CO/BF/Others) used for Power generation**							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		

(viii)	Design Efficiency	Annual	%				0.00		
				442					
B1.4	Boiler 4	From Waste Heat (SI/CO/BF/Others) used for Power generation		3598					3589
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.5	Boiler 5	From Waste Heat (SI/CO/BF/Others) used for Power generation							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B2	Steam Generation Boiler used for Power generation								
B2.1	Boiler 6	For Steam Generation Boiler							
(i)	Type			FBC	FBC	FBC		FBC	
(ii)	Rated Capacity		TPH	54.0	54.0	54.0	54.00	54.0	
(iii)	Total Steam Generation	Annual	Tonne	215460.0	215460.0	215460.0	215460.00	411241.8	
(iv)	Running hours	Annual	Hrs	4223.5	4223.5	4223.5	4223.50	8423.3	
(v)	Coal Consumption	Annual	Tonne	34143.1	34143.1	34143.1	34143.10	54825.2	
(vi)	GCV of Coal	Annual Average	kCal/kg	5550.0	5550.0	5550.0	5550.00	4712.8	
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	115.0	115.0	115.0	115.00	112.0	
(xiv)	Operating Efficiency	Annual Average	%	81.5	81.5	81.5	81.50	80.7	
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2	67.0	67.0	67.0	67.00	67.0	
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	497.0	497.0	497.0	497.00	498.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg	814.0	814.0	814.0	814.00	814.5	
(xviii)	Design Efficiency		%	83.0	83.0	83.0	83.00	83.0	
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**51.01**	**51.01**	**51.01**	**51.01**	**48.82**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**879.49**	**879.49**	**879.49**	**879.49**	**628.29**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	
B2.2	Boiler 7	For Steam Generation Boiler							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.3	Boiler 8	For Steam Generation Boiler							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.4	Boiler 9	For Steam Generation Boiler							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		

(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	3590
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.5	Boiler 10	For Steam Generation Boiler							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B3	Weighted Average Boiler 6-10	For Steam Generation Boiler							
B3.1	**Total Steam Generation (Process Boiler)**	**B2.5(iii)+B2.4(iii)+B2.3(iii)+B2.2(iii)+B2.1(iii)**	**Tonnes**	**215460.00**	**215460.00**	**215460.00**	**215460.00**	**411241.84**	
B3.2	**Weighted Operating Efficiency of Boiler (Process Boiler**	**Weighted average of all 5 boilers**	**%**	**81.50**	**81.50**	**81.50**	**81.50**	**80.70**	
B3.3	**Total Operating Capacity of Boilers (Process Boiler)**	**B2.5(xviii)+B2.4(xviii)+B2.3(xviii)+B2.2(xviii)+B2.1(xviii)**	**TPH**	**51.01**	**51.01**	**51.01**	**51.01**	**48.82**	
B3.4	**Weighted Specific Energy Cosumption (Process Boiler)**	**Weighted average of all 5 boilers**	**kCal/kg of Steam**	**879.49**	**879.49**	**879.49**	**879.49**	**628.29**	
B3.5	**Weighted Percentage of Coal Energy Used in steam Generation (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	
B4	Note: DCs to provide separate Excel sheet in the Boiler format as specified above If no of boiler exceeds for additional nos of boliers installed for Cogen/Steam								
C	Electricity								
C.1	Electricity from Grid / Other (Including Colony and Others)								
(i)	Purchased Electricity from Grid (SEB)	Annual	Lakh kWh	654.28	654.28	654.28	654.28	12.155	
(ii)	Renawble Energy (through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Electricity from CPP located outside from plant boundary (Through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Renewable purchase Obligation of Plant (RPO) (Solar & Non-Solar)	Annual	%	0	0	0	0.00	0	
(v)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	Lakh kWh	0	0	0	0.00	0	
(vi)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	MW	0	0	0	0.00	0	
(vii)	Renewable Energy generator as approved by MNRE	Annual	MW	0	0	0	0.00	0	
(viii)	Quantum of Renewable Energy Certificates (REC) obtained as a Renewal Energy Generator (Solar & Non-Solar)	Annual	MWh	2927	2927	2927	2927.00	1933	
(ix)	Quantum of Energy sold under preferential tariff	Annual	MWh	0	0	0	0.00	0	
(x)	Plant Connected Load		kW	25557	25557	25557	25557.00	25557	
(xi)	Contract demand with utility		kVA		0	0	0.00	0	
(xii)	Notified Baseline SEC		TOE/Tonne			0	0.00		
(xiii)	Notified Target SEC		TOE/Tonne			0	0.00		
(xiv)	Saving Target in TOE/ton of product as per PAT scheme Notification		TOE/Tonne			0.00	0.00		
(xv)	Equivalent Major Product Output in tonnes as per PAT scheme Notification		Tonnes				0.00		
(xvi)	**Total Electricity Purchased from Grid/ others**	**C.1(i)+C.1(ii)+C.1(iii)**	**Lakh kWh**	**654.28**	**654.28**	**654.28**	**654.28**	**12.16**	
(xvii)	**Total Electricity Purchased from grid/ Other with out colony/construction power etc**	**IF((C.1(i)+C.1(ii)+C.1(iii))>C.5,((C.1(i)+C.1(ii)+C.1(iii))-C.5),0)**		**652.18**	**652.18**	**652.18**	**652.18**	**10.49**	
(xviii)	**Equivalent Thermal Energy of Purchased Electricity from Grid / Other without colony/construction power etc**	**C.1(xv)x860/10**	**Million kcal**	**56087.44**	**56087.44**	**56087.44**	**56087.44**	**902.43**	
C.2	**Own Generation**								
C.2.1	**Through DG sets**								
(i)	Grid Connected		***Yes/No***	NO	NO	NO	NO	NO	
(ii)	Install Capacity	Annual	MW	1.44	1.44	1.44	1.44	1.44	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0.1986	0.1986	0.1986	0.20	1.3802	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	51.99	51.99	51.99	51.99	336:02:00	
C.2.2	Captive Power Plant CPP (For other than SID Plant)								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW	13.8	13.8	13.8	13.80	13.8	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	552.459	552.459	552.459	552.46	1044.026	
(iv)	Auxiliary Power Consumption (APC)	Annual	%	9.66	9.66	9.66	9.66	9.73	
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh	3250	3250	3250	3250.00	3250	
(vi)	Plant Load Factor (PLF)	Annual	%	90.17	90.17	90.17	90.17	86.36	
(vii)	Running Hours	Annual	Hours	4223.5	4223.5	4223.5	4223.50	8423.3	
Note	**Please provide information for all CPP in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.3	Through Gas turbine								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hours	0	0	0	0.00	0	
Note	**Please provide information for all GT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.4	**Through Gas Generator (GG) sets**								
(i)	Grid Connected		***Yes/No***	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW	0	0	0	0.00	0	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0	0	0	0.00	0	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	**Please provide information for all GG in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.5	Through Coal/Biomass based Boiler and WHRB Steam turbine								

(i)	Grid Connected		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Power Plant Capacity (C)	Annual	MW	444	0		0.00		
(iii)	Annual Grosss Unit Generation	Annual	Lakh kWh	3600	0		0.00		3591
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Gross Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	**Please provide information for all WHRBT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**								
C.2.6	Through Co-Generation (Extraction Cum Condensing)								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	ºC				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	ºC				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	ºC				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6(xiv)*C.2.6(xii))+(C.2.6(xvii)*C.2.6(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6(x)*C.2.6(vii))/1000)-C.2.6(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6(xx)*1000/(C.2.6(vii)*C.2.6(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction Cum Condensing)**	**(C.2.6(xxi)/C.2.6(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.2.6.1	Through Co-Generation (Extraction/Back Pressure)								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	ºC				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	ºC				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	ºC				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6.1(xiv)*C.2.6.1(xiii))+(C.2.6.1(xvii)*C.2.6.1(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6.1(x)*C.2.6.1(vii))/1000-C.2.6.1(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6.1(xx)*1000/(C.2.6.1(vii)*C.2.6.1(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction /Back Pressure)**	**(C.2.6.1(xxi)/C.2.6.1(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiv)	**Total % of thermal energy in Process from Cogen**	**(C.2.5(xx)+C.2.6(xx))/(C.2.6(xxi)+C.2.5(xxi)+C.2.5(xx)+C.2.6(xx))**	**Factor**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.3	**Total Own Generation of Electricity**	**C.2.1.(iii)+C.2.2.(iii)+C.2.3.(iii)+C.2.4.(iii)+C.2.5.(iii)+C.2.6.(iii)**	**Lakh kWh**	**552.66**	**552.66**	**552.66**	**552.66**	**1045.41**	
C.4	**Electricity Supplied to Grid/others**	**Annual**	**Lakh kWh**		**0**	**0**	**0.00**		
C.5	**Electricity Supplied to Colony/others**	**Annual**	**Lakh kWh**	**2.1005**	**2.1005**	**2.1005**	**2.10**	**1.6616**	
C.6	**lectricity Supplied to Grid/Colony/Others from WHRB S**	**C.4+(IF(C.5>C.1(xiv),(C.5-C.1(xiv)),0)**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.7	**Equivalent Thermal Energy supplied to grid/others**	**C.4*2717/10**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.8	**Total Electricity Consumed in Process and Auxilliaries**	**IF(C.5>C.1(xiv),((C.3-C.4)-(C.5-C.1(xiv)),(C.1(xv)+C.3-C.4))**	**Lakh kWh**	**1204.84**	**1204.84**	**1204.84**	**1204.84**	**1055.90**	
D	**Solid Fuel Consumption**								
D.1	**Non coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne	6097	6097	6097	6097.00	5344.56	
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	5550	5550	5550	5550.00	4712.75	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	4010	4010	4010	4010.00	4817.25	
(iv)	Quantity purchased	Annual	Tonne	32460.55	32460.55	32460.55	32460.55	72086.08	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	34143.1	34143.1	34143.1	34143.10	54825.2	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne		0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	26008.044	26008.044	26008.044	26008.04	21629.275	
(x)	**Total Quantity Consumed**	**D.1.(vi)+D.1.(viii)+D.1.(ix)**	**Tonne**	**60151.14**	**60151.14**	**60151.14**	**60151.14**	**76454.48**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.1.(ii)*D.1.(vi))/1000**	**Million kcal**	**189494.21**	**189494.21**	**189494.21**	**189494.21**	**258377.46**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.1.(ii)*D.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.1.(ii)*D.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.1.(iii)*D.1.(ix))/1000**	**Million kcal**	**104292.26**	**104292.26**	**104292.26**	**104292.26**	**104193.62**	
D.2	**Non Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne		0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne		0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne		0	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne		0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne		0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.2.(vi)+D.2.(viii)+D.2.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.2.(ii)*D.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.2.(ii)*D.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.2.(ii)*D.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

(xiv)	**Thermal Energy Used in Process**	**(D.2.(iii)*D.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
				445					
D.3	**Coking Coal (Indian)**			3601					3592
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.3.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.3.(ii)*D.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.4	**Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.4.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.4.(ii)*D.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.5	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.5.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.5.(ii)*D.5.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.6	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.6.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.6.(ii)*D.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.7	**Coal Fines**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.7.(vii)+D.7.(viii)+D.7.(ix)+D.7.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.7.(ii)*D.7.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.7.(ii)*D.7.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.7.(ii)*D.7.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.7.(iii)*D.7.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.8	**Coal Rejects/Slurry**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.8.(vii)+D.8.(viii)+D.8.(ix)+D.8.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.8.(ii)*D.8.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.8.(ii)*D.8.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.8.(ii)*D.8.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.8.(iii)*D.8.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.9	**Dolachar**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.9.(vii)+D.9.(viii)+D.9.(ix)+D.9.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.9.(ii)*D.9.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.9.(ii)*D.9.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.9.(ii)*D.9.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.9.(iii)*D.9.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.10	**Bio mass or Other purchased Renewable solid fuels (pl. specify) baggase, rice husk, etc.**	**Thermal Energy Input through Biomass not to be taken into account if used in Process**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.10.(vi)+D.10.(vii)+D.10.(viii)+D.10.(ix**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.10.(ii)*D.10.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.10.(ii)*D.10.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.10.(ii)*D.10.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.10.(iii)*D.10.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

D.11	Solid Waste (pl. specify and refer CPCB guidelines) rubber tyres chips, Municipal Solid waste etc.	Thermal Energy Input through solid waste, mentioned in CPCB guidelines, not to be taken into account if used in Process		446 3602					3593
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.11.(vi)+D.11.(vii)+D.11.(viii)+D.11.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.11.(ii)*D.11.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (WHRB)**	**D.11.(ii)*D.11.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.11.(ii)*D.11.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**D.11.(iii)*D.11.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.12	**Total Solid Energy Used in Power Generation (CPP)**	**IF(OR(C.2.2(i)="yes"),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)))**	**Million kcal**	**189494.21**	**189494.21**	**189494.21**	**189494.21**	**258377.46**	
D.12.1	**Total Solid Energy Used in Power Generation (CPP) for HR**	**D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi)**	**Million kcal**	**189494.21**	**189494.21**	**189494.21**	**189494.21**	**258377.46**	
D.13	**Total Solid Energy Used in Power Generation (WHRB)**	**IF(OR(C.2.5(i)="yes"),D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)+D.10.(xiii)+D.11.(xiii),D.1.(xiii)+D.2.(xiii)+D.7(xiii)+D.8.(xiii))**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.13.1	**Total Solid Energy Used in Power Generation (WHRB) for HR**	**,D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.14	**Total Solid Energy Used in Power Generation (Cogen)**	**If(Or(C.2.6(i),C.2.6.1(i)="yes"),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)+D.8(xii)*(1-C.2.6.1(xxiii)+D.9(xii)*(1-c.2.6.1(xxiii)),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.15	**Total Solid Energy Used in Process**	**D.1.(xiv)+D.2.(vxiv)+D.3.(vii)+D.4.(vii)+D.5(xv)+D.6(xiv)**	**Million kcal**	**104292.26**	**104292.26**	**104292.26**	**104292.26**	**104193.62**	
E	**Liquid Fuel Consumption**								
E.1	**Furnace Oil**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre		0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0		**0.00**		
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0		**0.00**		
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0		0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0		**0.00**		
(ix)	Quantity used for process	Annual	kilo Litre		0	0	**0.00**	0	
(x)	**Total F. Oil Consumption as fuel**	**(E.1.(v)+E.1.(vi)+E.1.(vii)+E.1.(viii)+E.1.(ix))*E.1.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.1.(ii)*E.1.(iv)*E.1.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.1.(ii)*E.1.(iv)*E.1.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.1.(ii)*E.1.(iv)*E.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.1.(ii)*E.1.(iv)*E.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.1.(ii)*E.1.(iv)*E.1.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.2	**Light Sulphur Heavy Stock (LSHS)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total LSHS Consumption as fuel**	**(E.2.(v)+E.2.(vi)+E.2.(vii)+E.2.(viii)+E.2.(ix))*E.2.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.2.(ii)*E.2.(iv)*E.2.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.2.(ii)*E.2.(iv)*E.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.2.(ii)*E.2.(iv)*E.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.2.(ii)*E.2.(iv)*E.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.2.(ii)*E.2.(iv)*E.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.3	**High Sulphur Heavy Stock (HSHS)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total HSHS Consumption as fuel**	**(E.3.(v)+E.3.(vi)+E.3.(vii)+E.3.(viii)+E.3.(ix))*E.3.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.3.(ii)*E.3.(iv)*E.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.3.(ii)*E.3.(iv)*E.3.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.3.(ii)*E.3.(iv)*E.3.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.3.(ii)*E.3.(iv)*E.3.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.3.(ii)*E.3.(iv)*E.3.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.4	**Light Diesel Oil (LDO)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre		0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre		0	0	**0.00**	0	
(x)	**Total LDO Consumption as fuel**	**(E.4.(v)+E.4.(vi)+E.4.(vii)+E.4.(viii)+E.4.(ix))*E.4.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.4.(ii)*E.4.(iv)*E.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.4.(ii)*E.4.(iv)*E.4.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.4.(ii)*E.4.(iv)*E.4.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.4.(ii)*E.4.(iv)*E.4.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.4.(ii)*E.4.(iv)*E.4.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.5	**High Speed Diesel (HSD)**								

(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne	47.15	47.15	47.15	**47.15**	53.38	
(ii)	Gross calorific value	Annual	kcal/ kg	10850	10850	10850	**10850.00**	10642	
(iii)	Quantity purchased	Annual	kilo Litre	71.519	71.519	71.519	**71.52**	119.863	
(iv)	Average Density	Annual	kg/ltr	0.84	0.84	0.84	**0.84**	0.8279	
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	4.472	4.472	4.472	**4.47**	32.0946	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(viii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for material handling / Transportation (Raw material handling , Loco, etc)	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	Quantity used for process heating	Annual	kilo Litre	0	0	0	**0.00**	0	
(xi)	**Total HSD Consumption as fuel**	**(E.5.(v)+E.5.(vi)+E.5.(vii)+E.5.(viii)+E.5.(ix)+E.5.(x))*E.5.(iv)**	**Tonne**	**3.76**	**3.76**	**3.76**	**3.76**	**26.57**	
(xii)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.5.(ii)*E.5.(iv)*E.5.(v))/1000**	**Million kcal**	**40.76**	**40.76**	**40.76**	**40.76**	**282.77**	
(xiii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.5.(ii)*E.5.(iv)*E.5.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.5.(ii)*E.5.(iv)*E.5.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Power Generation (Transportation)**	**(E.5.(ii)*E.5.(iv)*E.5.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xvi)	**Thermal Energy Used in Process**	**(E.5.(ii)*E.5.(iv)*E.5.(x))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.6	**Liquid Waste (pl. specify and refer CPCB guidelines)**	**Thermal Energy Input through Liquid waste, mentioned in CPCB guidelines, not to be taken into account**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total Liquid waste Consumption as fuel**	**(E.6.(v)+E.6.(vi)+E.6.(vii)+E.6.(viii)+E.6.(ix))*E.6.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.6.(ii)*E.6.(iv)*E.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.6.(ii)*E.6.(iv)*E.6.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.6.(ii)*E.6.(iv)*E.6.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.6.(ii)*E.6.(iv)*E.6.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xvv)	**Thermal Energy Used in Process**	**(E.6.(ii)*E.6.(iv)*E.6.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.7	**Total Liquid Energy Used in Power Generation (DG Set)**	**IF(C.2.1(i)="yes",E.6(xi)+E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi),E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi)**	**Million kcal**	**40.76**	**40.76**	**40.76**	**40.76**	**282.77**	
E.8	**Total Liquid Energy Used in Power Generation (CPP)**	**IF(C.2.2(i)="yes",E.6(xii)+E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii),E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E8.1	**Total Liquid Energy Used in Power Generation (CPP) for HR**	**E.6(xii)+E.5(xii)+E.4(xi)+E3(xi)+E.2(xi)+E.1(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.9	**Thermal Energy Used in Power Generation (WHRB)**	**IF(C.2.3(i)="yes",E.6(xiii)+E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii),E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E9.1	**hermal Energy Used in Power Generation (WHRB) for H**	**E.6(xiii)+E.5(xiii)+E.4(xii)+E3(xii)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.10	**Thermal Energy Used in Power Generation (Cogen)**	**IF(OR(C.2.6(i),C.2.6.1(i)="yes"),(E.6(xiv)*(1-C.2.6.1(xxiv))+E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)),E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.11	**Total Liquid Energy Used in Process**	**E.1.(xv)+E.2.(xv)+E.3.(xv)+E.4.(xv)+E.5.(xvi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F	**Gaseous Fuel**								
F.1	**Compressed Natural Gas CNG/PNG/LNG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.1.(iv)+F.1.(v)+F.1.(vi)+F.1.(vii)+F.1.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.1.(ii)*F.1.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.1.(ii)*F.1.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.1.(ii)*F.1.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.1.(ii)*F.1.(vii)+F.1.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.2	**NG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.2.(iv)+F.2.(v)+F.2.(vi)+F.2.(vii)+F.2.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.2.(ii)*F.2.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.2.(ii)*F.2.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.2.(ii)*F.2.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.2.(ii)*F.2.(vii)+F.2.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.3	**CBMG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.3.(iv)+F.3.(v)+F.3.(vi)+F.3.(vii)+F.3.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.3.(ii)*F.3.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.3.(ii)*F.3.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

447
3603

3594

(xii)	**Quantity used for power generation (Cogen)**	**F.3.(ii)*F.3.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.3.(ii)*F.3.(vii)+F.3.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
				448					
				3604					3595
F.4	**LPG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/kg				**0.00**		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.4.(iv)+F.4.(v)+F.4.(vi)+F.4.(vii)+F.4.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.4.(ii)*F.4.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.4.(ii)*F.4.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.4.(ii)*F.4.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.4.(ii)*F.4.(vii)+F.4.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.5	**Propane**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/kg				**0.00**		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	**0.00**	0	
(ix)	Quantity used as Raw Material	Annual	Million kg	0	0	0	**0.00**	0	
(x)	**Total Gas Consumption as fuel**	**F.5.(iv)+F.5.(v)+F.5.(vi)+F.5.(vii)+F.5.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (GT)**	**F.5.(ii)*F.5.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (GG)**	**F.5.(ii)*F.5.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Quantity used for power generation (Cogen)**	**F.5.(ii)*F.5.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**F.5.(ii)*F.5.(vii)+F.5.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.6	**Naptha**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/kg				**0.00**		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.6.(iv)+F.6.(v)+F.6.(vi)+F.6.(vii)+F.6.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.6.(ii)*F.6.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.6.(ii)*F.6.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.6.(ii)*F.6.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.6.(ii)*F.6.(vii)+F.6.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.7	**Quantity used for power generation (GT)**	**F.1.(x)+F.2.(x)+F.3.(x)+F.4.(x)+F.5.(x)+F.6.(x)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.8	**Quantity used for power generation (GG)**	**F.1.(xi)+F.2.(xi)+F.3.(xi)+F.4.(xi)+F.5.(xi)+F.6.(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.9	**Quantity used for power generation (Cogen)**	**F.1.(xii)+F.2.(xii)+F.3.(xii)+F.4.(xii)+F.5.(xii)+F.6.(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.10	**Total Gaseous Energy Used in Process**	**F.1.(xiii)+F.2.(xiii)+F.3.(xiii)+F.4.(xiii)+F.5.(xiii)+F.6.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.11	**Gas Import/Export (All type of Gaseous Fuel)**								
F.11.1	**Gas Import**								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	**Thermal Energy for Imported Gas**	**F.11.1 (i) x F.11.1 (ii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.11.2	**Gas Export**								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	**Thermal Energy for Exported Gas**	**F.12.1 (i) x F.12.1 (ii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(iv)	**Total thermal Energy for Gas (Import-Export)**	**F.11.1 (iii) - F.12.1 (iii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
G	**Total Thermal Energy**								
G.1	**Total Thermal Energy Used in Power Generation**	**F.7+F.8+F.9+E.7+E.8+E.9+E.10+D.10+D.11+D.12**	**Million kcal**	**189534.96**	**189534.96**	**189534.96**	**189534.96**	**258660.23**	
G.2	**Total Thermal Energy Used in Process**	**D.13+E.11+F.10**	**Million kcal**	**104292.26**	**104292.26**	**104292.26**	**104292.26**	**104193.62**	
G.3	**Total Thermal Energy Input through all Fuels**	**G.1+G.2+F.11.2(iv)**	**Million kcal**	**293827.22**	**293827.22**	**293827.22**	**293827.22**	**362853.86**	
H	**Gross Heat Rate**								
H.1	**Gross Heat Rate of DG Set**	**E.7x10/C.2.1.(iii)**	**kcal/kWh**	**2052.26**	**2052.26**	**2052.26**	**2052.26**	**2048.76**	
H.2	**Gross Heat Rate of CPP (Steam Turbine)**	**(D.7+E.8)x10/C.2.2.(ii)**	**kcal/kWh**	**3430.01**	**3430.01**	**3430.01**	**3430.01**	**2474.82**	
H.3	**Grross Heat Rate of WHRB Turbine**	**(E9.1+D.12)*10/C.2.5(iii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.4	**Gross Heat Rate of CPP (Gas Turbine)**	**F.3x10/C.2.3.(ii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.5	**Gross Heat Rate of Gas Generator (GG)**	**F.8*10/C.2.4(iii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.6	**Gross Heat Rate of CoGen (Condensing)**	**C.2.6(vii)*C.2.6(x)-C.2.6(xiii)*C.2.6(xiv)-C.2.6(xvii)*C.2.6(xviii)*1000/((B3.2/100)*C.2.6(iii)*10^5)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.7	**Gross Heat Rate of CoGen (Extraction)**	**C.2.6.1(vii)*C.2.6.1(x)-C.2.6.1(xiii)*C.2.6.1(xiv)-C.2.6.1(Xvii)*C.2.6.1(xviii)*1000/((B3.2/100)*C.2.6.1(iii)*10^5)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.6	**Weighted Average Heat Rate**	**H.1*C.2.1(iii)+H.2*C.2.2(iii)+H.3*C.2.5(iii)+H.4*C.2.3(iii)+H.5*C.2.4(iii)+H.6*C.2.6(iii)+H.7*C.2.6.1(iii)+C.1.(xiv)*860/C.2.1(iii)+C.2.2(iii)+C.2.5(iii)+C.2.4(iii)+C.2.6(iii)+C.2.6.1(iii)+C.1.(xiv)**	**kcal/kWh**	**2036.58**	**2036.58**	**2036.58**	**2036.58**	**2455.70**	
I	**Performance Indicators (MBF)**								
I.1	SEC of Other Products		Fuel consumtion / tonne of products	0	0	0	**0.00**	0	
I.2	SEC of Other Products		kWh/T	0	0	0	**0.00**	0	
I.3	Sinter SEC		Gkal/tp	0	0	0	**0.00**	0	
I.4	Sinter SEC		Gkal/ tcs	0	0	0	**0.00**	0	
I.5	Blast Furnace (B.F.) SEC		Gkal/tp	0	0	0	**0.00**	0	
I.6	Blast Furnace (B.F.) SEC		Gkal/ tcs	0	0	0	**0.00**	0	
J	**Raw Material Quality**								
J.1	FeT in Iron ore		%	0	0	0	**0.00**	0	
J.2	Ash % in Non Coking Coal		%	40.74	40.74	40.74	**40.74**	33.28	
J.3	GCV of Non Coking Coal		Kcal/kg	4010	4010	4010	**4010.00**	4817.25	
J.4	Ash % in Coking Coal		%	0	0	0	**0.00**	0	
K	**Coal Quality in CPP/Boiler (As Fired Basis)**								
i	**Ash**	**Annual**	**%**	29.04	29.04	29.04	**29.04**	30.85	

ii	Moisture	Annual	%	9.84	9.84	9.84	**9.84**	6.02	
iii	Hydrogen	Annual	%	449			**0.00**	0	
iv	GCV	Annual	kcal/kg	3605	5550	5550	**5550.00**	4712.8	3596
L	Miscelleneous Data $								
L.1	Additional Equipment installation after baseline year due to Environmental Concern								
(i)	**Additional Electrical Energy Consumed**	**Annual**	**Lakh kWh**					**0.00**	
(ii)	**Additional Thermal Energy Consumed**	**Annual**	**Million kcal**					**0.00**	
L.2	Biomass/ Alternate Fuel availability								
(i)	Biomass replacement with Fossil fuel due to Biomass un-availbility (used in the process)	Annual	Tonne					0.00	
(ii)	Alternate Solid Fuel replacement with Fossil fuel due to Alternate Solid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
(iii)	Alternate Liquid Fuel replacement with Fossil fuel due to Alternate Liquid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
L.3	Project Activities (Construction Phase)								
(i)	**Electrical Energy Consumed due to commissioning of Equipment**	**Annual**	**Lakh kWh**					**0.00**	
(ii)	**Thermal Energy Consumed due to commissioning of Equipment**	**Annual**	**Million kcal**					**0.00**	
L.4	New Line/Unit Commissioning								
(i)	Electrical Energy Consumed due to commissioning of New process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy Consumed due to commissioning of New Process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Million kcal					0.00	
(iii)	SI from DRI route Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(iv)	Pig Iron Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(v)	Date of Commissioning (70% Capacity Utilisation)	Date						0.00	
(vi)	Electrical Energy Consumed from external source due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Lakh kWh					0.00	
(vii)	Thermal Energy Consumed due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Million kcal					0.00	
(viii)	Steam Generation From Co-Gen till New Line /Unit attains 70% of Capacity Utilisation	Annual	Ton					0.00	
(ix)	Net Electricity Genration till new line/ Unit attains 70% Capacity Utilisation	Annual	Lakh kWh					0.00	
(x)	Date of Commissioning (70% Capacity Utilisation)	Date						0.00	
L.5	Unforeseen Circumstances								
(i)	Electrical Energy to be Normalised	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy to be Normalised	Annual	Million kcal					0.00	
$ Authentic documents in support of claim in Thermal and Electrical Energy is required									
M	Documentation for Normalisation								
(i)	Scrap % -Document Available for Normalisation		Yes/No	No	No	No	No	No	
(ii)	Start Stop-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(iii)	Fuel Quality in CPP & Co-Gen -Document Available for Normalisation		Yes/No	No	No	No	No	Yes	
(iv)	Power Mix-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(v)	Intermediate Product-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(vi)	Other Factos - Document Available for Normalisation		Yes/No	No	No	No	No	No	
N	Energy Saving and Investment	Annual	Million Rs						
(i)	Investment made for achieving target	Annual	Million Rs	0.00	0.00	0.00	**0.00**		
(ii)	**Thermal Energy Saving during the year**								
a	**Solid Fuel**								
a.1	Coal	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.2	Lignite	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.3	Petro Coke	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.4	Biomass/Waste	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
b	**Liquid Fuel (FO/HSD/LDO/LSHS/HSHS)**	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
c	**Gaseous Fuel**	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
(iii)	Electrical energy Saving during the year	Annual	Lakh kWH	0.00	0.00	0.00	**0.00**	0.00	
O	Process Flow Diagram Attached	Yes/No					Yes		

	Please enter numeric values or leave blank
0	**Please eneter numeric value or "0"**
	Fomulae Protected
Yes	Select from the list Yes or No
	Data not to be filled
	Please enter text value

We .....undertake that information furnished in the Sectror Specific Form I are complete and acciurate to the best of my knowledge. I also undertake that the information provided for Normalisation is limited to external factors only.

Signature of Energy Manager
Name

Date:

Place:

(Signature of the Chief Executive)

Organisation Seal

Shyam Century Ferrous Ltd.

Regd. Office.: Vill.:Lumshnong, PO: Khaliehriat, Dist. East Jaintia Hills, Meghalaya – 793210, Phone No- 03655-278215/16/18,
Fax : 03655-278217, E-mail ID -investors@shyamcenturyferrous.com, Website – www.shyamcenturyferrous.com
CIN- U27310ML2011PLC008578

Annexure R/21
Page 450

Ref.No.: SCFL/PAT-2/2018-19/001

Date:June 27, 2018

Kind Att.:
Senior Electrical Inspector
Inspectorate of Electricity, Government of Meghalaya,
Horse Shoe Building,
Lower Lachumiere,
Shillong – 793 001, Meghalaya
msda-meg@nic.in
Tele No. (0364) 2500756

Subject : Submission of Detail of Energy Consumption in Form -1 FY 2017-18

Dear Sir,

With reference to THE ENERGY CONSERVATION (THE FORM AND MANNER FOR SUBMISSION OF REPORT ON THE STATUS OF THE ENERGY CONSUMPTION BY THE DESIGNATED CONSUMERS) RULES, 2007 NOTIFIED VIDE GSR 174(E) dt. 02-03-2007.

We are enclosing here with the detail of information on submit the status of energy consumption in Form – 1 in electronic form as well as hard copy for current FY (2017-18) & previous FY (2016-17).

You are requested to find the same & acknowledge.

With Kind Regards

For M/s Shyam Century Ferrous Ltd.

For SHYAM CENTURY FERROUS LTD.

Authorized Signatory

Authorized Signatory

M/S SHYAM CENTURY FERROUS LTD. ★ BYRNIHAT, MEGHALAYA ★ PIN : 793101

CC to
Mr. Ashok Kumar
Energy Economist
Bureau of energy Efficiency
4th Floor, SewaBhawan, R.K Puram,
New Delhi-110066
Email Id: kumara@beenet.in

For SHYAM CENTURY FERROUS LTD.
Authorised Signatory

Form-1

Details of information regarding Total Energy Consumed and Specific Energy Consumption Per unit of Production
(See Rule 3)

A.	General Details	Description	
1	Name of the Unit	Shyam Century Ferrous Limited	
2	i) Year of Establishment	2000	
	ii) Registration No (As provided by BEE)	INS0039ML	
3	Sector and Sub-Sector in which the Designated Consumers falls	Sector	Sub-Sector
		Iron & Steel (Sponge Iron)	Ferro Alloy
4. (i)	Complete address of DCs Unit location **(including Chief Executive's name & designation)** with mobile, telephone, fax nos. & e-mail.	Mr. MVK NAGESWARA RAO,CEO,EPIP, RAJABAGAN,BYRNIHAT,RI-BHOI,MEGHALAYA,793101,,03638-200522,9485099191,nageswararao@starcement.co.in	
(ii)	Registered Office address with telephone, fax nos. & e-mail	,,,LUMSHNONG,KHALIEHRIAT,EAST JAINTIA HILLS,MEGHALAYA,793210,03655-278215/16/18,03655-278217	
(iii)	Energy Manager's Name, designation, Registration No., Address, Mobile, Telephone, Fax nos. & e-mail	Mr.Arvind Rai,ENERGY MANAGER,EA-8391,,EA,03638-200522,9862571299,arvindrai@starcement.co.in	

B.	Production details			
5	Manufacturing Industries notified as Designated Consumers			
Sr No	Products	Unit	Previous Year	Current Year
		(1)	(2)	(3)
(i)	Product 1: Sponge Iron Production	Tonne	0.00	0.00
(ii)	Product 2: Steel Melting Shop Production	Tonne	0.00	0.00
(iii)	Product 3: Ferro Chrome Production	Tonne	0.00	0.00
(iv)	Product 4: FiMN Production	Tonne	0.00	0.00
(v)	Product 5: SiMn Production	Tonne	0.00	0.00
(vi)	Product 6: Pig Iron Production	Tonne	0.00	0.00
(vii)	Product 7: Ferro Silicon Production	Tonne	12605.00	14169.00
(viii)	Product 8: Rolling Mill Production	Tonne	0.00	0.00
(ix)	Total Equivalent Product SI+SMS+Others	Tonne	0.00	0.00
(x)	Total Equivalent Product SiMn	Tonne	12605.00	14169.00
(xi)	Total Equivalent Product Ferro Chrome	Tonne	0.00	0.00
(xii)	Total Equivalent product Hot Metal/Pig Iron	Tonne	0.00	0.00
(xiii)	Total Equivalent Product SPU	Tonne	0.00	0.00

C	Energy Consumption Details of Manufacturing Industries notified as Designated Consumers			
Sr No	Item	Unit	Previous Year	Current Year
		(1)	(2)	(3)
6. (i)	Total Electricity Purchased from Grid/Other Source	Million kwh	1.22	49.25

For Shyam Century Ferrous Ltd.
Arvind Rai
Energy Manager (EA-8391)

(ii)	Total Electricity Generated	Million kwh	104.54	68.91
(iii)	Total Electricity Exported	Million kwh	0.00	0.00
(iv)	Total Electrical Energy Consumption	Million kwh	105.59	117.99
(v)	Total Solid Fuel Consumption	Million kCal	362571.09	312721.87
(vi)	Total Liquid Fuel Consumption	Million kCal	282.77	25.89
(vii)	Total Gaseous Fuel Consumption	Million kCal	0.00	0.00
(viii)	Total Thermal Energy Consumption	Million kCal	362853.86	312747.76
(ix)	Total Normalized Energy Consumption (Thermal+Electrical)	TOE	36375.63	46694.79
D	**Specific Energy Consumption Details**			
7. i	Specific Energy Consumption(Without Normalization)	TOE/T	**2.89**	**3.30**
ii	Specific Energy Consumption (Normalized)	TOE/T	NA	NA
E	**Power Plants notified as Designated Consumer**			
8. i.	Total Capacity	MW		
ii	Unit Configuration	No. of units with their capcity		
iii	Annual Gross Generation	MU		
iv	Annual Plant Load Factor (PLF)	%		
v	Station Gross Design Heat Rate	kcal/kWh		
vi	Station Gross Operative Heat Rate	kcal/kWh		
vii	Auxiliary Power Consumption	%		
viii	Operative Net Heat Rate	kcal/kWh		
ix	Operative Net Heat Rate (Normalized)	kcal/kWh		
F	**Sector-Wise Details**			
S.No	**Name of the Sector**	**Sub-Sector**	**Pro-forma in which the details to be furnished**	
a	Aluminium	Refinery/Smelter	Sa_1	
		Cold Rolling Sheet	Sa_2	
b	Cement	Cement	Sb	
c	Chlor-Alkali	Chlor-Alkali	Sc	
d	Fertilizer	Fertilizer	Sd	
e	Iron and Steel	Integrated Steel	Se_1	
		Sponge Iron	Se_2	
f	Pulp and Paper	Pulp and Paper	Sf	
g	Textile	Composite	Sg_1	
		Fiber	Sg_2	
		Spinning	Sg_3	
		Processing	Sg_4	
h	Thermal Power Plant	Thermal Power Plant	Sh	

For SHYAM CENTURY FERROUS LTD.
Authorised Signatory

For, Shyam Century Ferrous Ltd.
Arvind Rai
Energy Manager (EA-8391)
27/6/18

I/we undertake that the information supplied in the Form 1 and pro- forma is accurate to the best of my knowledge and the data furnished in Form 1 has been adhered to the data given in the concerned pro forma.

Authorised Signatory and Seal

For SHYAM CENTURY FERROUS LTD.

Authorised Signatory

Name of Authorised Signatory: MVK Nageswara Rao
Name of the Designated Consumer: Shyam Century Ferrous Limited
Full Address:- EPIP, Rajabagan, Byrnihat, Ri-Bhoi, Meghalaya

Seal

Date

M/S SHYAM CENTURY FERROUS LTD. BYRNIHAT, MEGHALAYA PIN : 793101

For, Shyam Century Ferro

Arvind Rai
Energy Manager (EA-83

Signature:-
Name of Energy Manager: Arvind Rai
Registration Number: EA-8391

FORM-Se$_2$ (Details of Production and Energy Consumption)

Iron & Steel (Sponge Iron)

Name of the Unit		Shyam Century Ferrous Limited							
S. No	**Particulars**		**Unit**	**Year1 (20.... 20...)**	**Year2 (20.... 20...)**	**Year 3 /Previous Year (20.... 20...)**	**Baseline Year (Average of Yr 1 , Yr 2 & Yr3)**	**Current/Assessment/Target Year (20.....20....)**	**Source of Data**
A	**Production and capacity utilization details**			**2007-08**	**2008-09**	**2009-10**		**2014-15**	
A1	**Sponge Iron**								
A1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A1.3	Sponge Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A1.4	Sponge Iron Export	Annual	Tonne	0	0	0	**0.00**	0	
A1.5	Opening Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.6	Closing Stock (Sponge Iron)	Annual	Tonne	0	0	0	**0.00**	0	
A1.7	Number of Kilns		Number	0	0	0	**0.00**	0	
A1.8	Total Kiln Capacity		TPD				**0.00**		
A1.9	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A1.10	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A1.11	Specific Coal Consumption	Annual	t/t				**0.00**		
A1.12	**Thermal SEC**	**A1.9*10^6/A1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.13	**Electrical SEC**	**A1.10*10^5/A1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A1.14	**Capacity Utilization**	**A1.2x100/A1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A2	**Dolachar**								
A2.1	Dolachar inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A2.2	Dolachar Import	Annual	Tonne	0	0	0	**0.00**	0	
A2.3	Dolachar Export	Annual	Tonne	0	0	0	**0.00**	0	
A2.4	Average Gross calorific value of Dolachar	Annual	kcal/kg				**0.00**		
A2.5	Opening Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A2.6	Closing Stock (Dolachar)	Annual	Tonne	0	0	0	**0.00**	0	
A3	**Coal Fines**								
A3.1	Coal Fines inhouse produced	Annual	Tonne	0	0	0	**0.00**	0	
A3.2	Coal Fines Import	Annual	Tonne	0	0	0	**0.00**	0	
A3.3	Coal Fines Export	Annual	Tonne	0	0	0	**0.00**	0	
A3.4	Average Gross calorific value of Coal Fines	Annual	kcal/kg				**0.00**		
A3.5	Opening Stock (CoalFines)	Annual	Tonne	0	0	0	**0.00**	0	
A3.6	Closing Stock (Coal Fines)	Annual	Tonne	0	0	0	**0.00**	0	
A4	**Steel Melting Shop**								
A4.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A4.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A4.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A4.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A4.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A4.7	Ingot Import	Annual	Tonne	0	0	0	**0.00**	0	
A4.8	Ingot Export	Annual	Tonne	0	0	0	**0.00**	0	
A4.9	**Thermal SEC**	**A4.5*10^6/A4.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.10	**Electrical SEC**	**A4.6*10^5/A4.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A4.11	**Capacity Utilization**	**A4.2x100/A4.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5	**Ferro Chrome**								
A5.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A5.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A5.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A5.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A5.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A5.7	Ferro Chrome Import	Annual	Tonne	0	0	0	**0.00**	0	
A5.8	Ferro Chrome Export	Annual	Tonne	0	0	0	**0.00**	0	
A5.9	**Thermal SEC**	**A5.5*10^6/A5.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.10	**Electrical SEC**	**A5.6*10^5/A5.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A5.11	**Capacity Utilization**	**A5.2x100/A5.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6	**FeMn**								
A6.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A6.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A6.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A6.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A6.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A6.7	FeMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A6.8	FeMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A6.9	**Thermal SEC**	**A6.5*10^6/A6.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.10	**Electrical SEC**	**A6.6*10^5/A6.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A6.11	**Capacity Utilization**	**A6.2x100/A6.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7	**SiMn**								
A7.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0		**0.00**	0	
A7.2	Production	Annual	Tonne	0	0		**0.00**	0	
A7.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A7.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A7.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A7.7	SiMn Import	Annual	Tonne	0	0	0	**0.00**	0	
A7.8	SiMn Export	Annual	Tonne	0	0	0	**0.00**	0	
A7.9	**Thermal SEC**	**A7.5*10^6/A7.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7.10	**Electrical SEC**	**A7.6*10^5/A7.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A7.11	**Capacity Utilization**	**A7.2x100/A7.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A8	**Ferro Silicon**								
A8.1	Installed Production Capacity	Annual Installed Capacity	Tonne	21600	21600	21600	**21600.00**	21600	
A8.2	Production	Annual	Tonne	12605	12605	12605	**12605.00**	14169	
A8.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	154.102	
A8.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	215.432	
A8.5	Thermal energy Used	Annual	Million kcal	104193.62	104193.62	104193.62	**104193.62**	92280.85	
A8.6	Electrical Energy Used	Annual	Lakh kwh	950.4053	950.4053	950.4053	**950.41**	1098.3903	
A8.7	Pig Iron Import	Annual	Tonne	0	0	0	**0.00**	0	
A8.8	Pig Iron Export	Annual	Tonne	0	0	0	**0.00**	14101.37	
A8.9	**Thermal SEC**	**A8.5*10^6/A8.2**	**kcal/Tonne**	**8266055.14**	**8266055.14**	**8266055.14**	**8266055.14**	**6512869.94**	
A8.10	**Electrical SEC**	**A8.6*10^5/A8.2**	**kWh/Tonne**	**7539.91**	**7539.91**	**7539.91**	**7539.91**	**7752.07**	
A8.11	**Capacity Utilization**	**A8.2x100/A8.1**	**%**	**58.36**	**58.36**	**58.36**	**58.36**	**65.60**	
A9	**Pellet plant**								
A9.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A9.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A9.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A9.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	
A9.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	**0.00**	0	
A9.7	Pellet Import	Annual	Tonne	0	0	0	**0.00**	0	
A9.8	Pellet Export	Annual	Tonne	0	0	0	**0.00**	0	
A9.9	**Thermal SEC (Per Tonnne of Product)**	**A9.5*10^6/A9.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.10	**Electrical SEC (Per Tonne of Product)**	**A9.6*10^5/A9.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A9.11	**Capacity Utilization**	**A9.2x100/A9.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
	i) Please include the energy of Pellet plant in the Fuel Consumption section also. The electrical and thermal Energy used in the Pellet plant will not be considered in all the Baseline as well as in the assessment year								
A10	**Mini Blast Furnace**								
A10.1	**Sinter plant**								
A10.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	**0.00**	0	
A10.1.2	Production	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.3	Opening Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.4	Closing Stock	Annual	Tonne	0	0	0	**0.00**	0	
A10.1.5	Thermal energy Used	Annual	Million kcal	0	0	0	**0.00**	0	

A10.1.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.1.7	Sinter Import	Annual	Tonne	0	0	0	0.00	0	
A10.1.8	Sinter Export	Annual	Tonne	0	0	0	0.00	0	
A10.1.9	**Thermal SEC (Per Tonnne of Product)**	**A10.1.5*10^6/A10.1.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.1.10	**Electrical SEC (Per Tonne of Product)**	**A10.1.6*10^5/A10.1.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.1.11	**Capacity Utilization**	**A10.1.2x100/A10.1.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2	**Coke Oven plant**								
A10.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	0.00	0	
A10.2.2	Production	Annual	Tonne	0	0	0	0.00	0	
A10.2.3	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A10.2.4	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A10.2.5	Thermal energy Used (Other than Coking Coal)	Annual	Million kcal	0	0	0	0.00	0	
A10.2.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.2.7	Coke Import	Annual	Tonne	0	0	0	0.00	0	
A10.2.8	Coke Export	Annual	Tonne	0	0	0	0.00	0	
A10.2.9	**Thermal SEC (Per Tonnne of Product)**	**A10.2.5*10^6/A10.2.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2.10	**Electrical SEC (Per Tonne of Product)**	**A10.2.6*10^5/A10.2.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.2.11	**Capacity Utilization**	**A10.2.2x100/A10.2.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3	**Blast Furnace**								
A10.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	0	0	0.00	0	
A10.3.2	Production	Annual	Tonne	0	0	0	0.00	0	
A10.3.3	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A10.3.4	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A10.3.5	Thermal energy Used	Annual	Million kcal	0	0	0	0.00	0	
A10.3.6	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.3.7	Hot Metal Import	Annual	Tonne	0	0	0	0.00	0	
A10.3.8	Hote Metal Export	Annual	Tonne	0	0	0	0.00	0	
A10.3.9	**Thermal SEC (Per Tonnne of Product)**	**A10.3.5*10^6/A10.3.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3.10	**Electrical SEC (Per Tonne of Product)**	**A10.3.6*10^5/A10.3.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.3.11	**Capacity Utilization**	**A10.3.2x100/A10.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.4	**Other Aux**								
A10.4.1	Thermal Energy Used	Annual	Million kcal	0	0	0	0.00	0	
A10.4.2	Electrical Energy Used	Annual	Lakh kwh	0	0	0	0.00	0	
A10.5	**Sinter+Coke Oven+MBF+Others Aux**								
A10.5.1	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.2	Total Thermal Energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.3	Total Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.4	**Thermal SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.2*10^6/A10.5.1**	**kcal/thm**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A10.5.5	**Electrical SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.3*10^5/A10.5.1**	**kWh/thm**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11	**Pig Iron**								
A11.1	Installed Production Capacity	Annual Installed Capacity	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.2	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.3	Opening Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.4	Closing Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.5	Thermal energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.6	Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.7	Pig Iron Import	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.8	Pig Iron Export	Annual	Tonne	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.9	**Thermal SEC**	**A11.5*10^6/A11.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.10	**Electrical SEC**	**A11.6*10^5/A11.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A11.11	**Capacity Utilization**	**A11.2x100/A11.1**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12	**Total Finisied Product (Rolling Mill) [The higher production among the Rolling Mills 1-3 should be filled in the Rolling Mill-1 for making it as a major product]**								
A12.1	**Rolling Mill-1**								
A12.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	0.00	0	
A12.1.2	Production	Annual	Tonne		0	0	0.00	0	
A12.1.3	Name of Finish Products (Rolling Mills)								
A12.1.4	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A12.1.5	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A12.1.6	Thermal energy Used	Annual	Million kcal		0	0	0.00	0	
A12.1.7	Electrical Energy Used	Annual	Lakh kwh		0	0	0.00	0	
A12.1.8	**Thermal SEC**	**A12.1.6*10^6/A12.1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.1.9	**Electrical SEC**	**A12.1.7*10^5/A12.1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.1.10	**Capacity Utilization**	**A12.1.2x100/A12.1.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2	**Rolling Mill-2**								
A12.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	0.00	0	
A12.2.2	Production	Annual	Tonne		0	0	0.00	0	
A12.2.3	Name of Finish Products (Rolling Mills)								
A12.2.4	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A12.2.5	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A12.2.6	Thermal energy Used	Annual	Million kcal		0	0	0.00	0	
A12.2.7	Electrical Energy Used	Annual	Lakh kwh		0	0	0.00	0	
A12.2.8	**Thermal SEC**	**A12.2.6*10^6/A12.2.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2.9	**Electrical SEC**	**A12.2.7*10^5/A12.2.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.2.10	**Capacity Utilization**	**A12.2.2x100/A12.2.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3	**Rolling Mill-3**								
A12.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne		0	0	0.00	0	
A12.3.2	Production	Annual	Tonne		0	0	0.00	0	
A12.3.3	Name of Finish Products (Rolling Mills)								
A12.3.4	Opening Stock	Annual	Tonne	0	0	0	0.00	0	
A12.3.5	Closing Stock	Annual	Tonne	0	0	0	0.00	0	
A12.3.6	Thermal energy Used	Annual	Million kcal		0	0	0.00	0	
A12.3.7	Electrical Energy Used	Annual	Lakh kwh		0	0	0.00	0	
A12.3.8	**Thermal SEC**	**A12.3.6*10^6/A12.3.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3.9	**Electrical SEC**	**A12.3.7*10^5/A12.3.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A12.3.10	**Capacity Utilization**	**A12.3.2x100/A12.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
Note: Additional Mill data sheets are to be attached in the excel form as per above data entry format									
A13.1	**Toatal Rolling Mill Production**	**A12.1.2+A12.2.2+A12.3.2**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A13.2	**Thermal SEC**	**(A12.1.8*A12.1.2+A12.2.8*A12.2.2+ A12.3.8*A12.3.2)/(A12.1.2+A12.2.2 +A12.3.2)**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A13.3	**Electrical SEC**	**(A12.1.9*A12.1.2+A12.2.9*A12.2.2+ A12.3.9*A12.3.2)/(A12.1.2+A12.2.2 +A12.3.2)**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
A14	**SMS Charge**								
A14.1	Qty. of scrap charged in SMS	Annual	Tonne	0			0.00		
A14.2	Qty of DRI (Including Ferro Alloys)charged in SMS	Annual	Tonne	0			0.00		
A14.3	Qty of Pig Iron Charged in SMS	Annual	Tonne	0			0.00		
A14.4	Total Charge in SMS	A14.1+A14.2+A14.3	Tonne	0.00	0.00	0.00	0.00	0.00	
A14.5	% of Scrap used in SMS	A14.1*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.6	% of DRI used in SMS	A14.2*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A14.7	% of Pig Iron used in SMS	A14.3*100/A14.4	%	0.00	0.00	0.00	0.00	0.00	
A15	**Kiln/BF/SAF**								
A15.1.1	Kiln-1/BF1 /SAF1 Production	Annual	Tonne	0	0	0	0.00	0	
A15.1.2	Kiln-1/BF1 /SAF1 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.1.3	Kiln-1/BF1 /SAF1 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.1.4	Kiln-1/BF1 /SAF1 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.1.5	Kiln-1/BF1 /SAF1 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.1.6	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.1.7	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.1.8	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.9	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.1.10	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	

A15.1.11	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking pruction into account (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.1.12	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking production into account (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-2/BF2/SAF2								
A15.2.1	Kiln-2/BF2/SAF2 Production	Annual	Tonne	0	0	0	0.00	0	
A15.2.2	Kiln-2/BF2/SAF2 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.2.3	Kiln-2/BF2/SAF2 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.2.4	Kiln-2/BF2/SAF2 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.2.5	Kiln-2/BF2/SAF2Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.2.6	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.2.7	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.2.8	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.9	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.2.10	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.2.11	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.2.12	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-3/BF3/SAF3								
A15.3.1	Kiln-3/BF3 Production	Annual	Tonne	0	0	0	0.00	0	
A15.3.2	Kiln-3/BF3/SAF3 Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.3.3	Kiln-3/BF3 Operating Electrical SEC	Annual	kWh/t				0.00		
A15.3.4	Kiln-3/BF3 Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.3.5	Kiln-3/BF3 Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.3.6	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.3.7	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.3.8	Kiln-3/BF3 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.9	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.3.10	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.3.11	Kiln-3/BF3 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.3.12	Kiln-3 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
	Kiln-4,5,6...../BF4,5,6.../SAF4,5,6...								
A15.4.1	Kiln Production	Annual	Tonne	0	0	0	0.00	0	
A15.4.2	Kiln Operating Thermal SEC	Annual	kcal/kg				0.00		
A15.4.3	Kiln Operating Electrical SEC	Annual	kWh/t				0.00		
A15.4.4	Kiln Running Hours	Annual	Hours	0	0	0	0.00	0	
A15.4.5	Kiln Hot to Hot start	Annual	Hours	0	0	0	0.00	0	
A15.4.6	Kiln Hot to Cold stop due to external factor	Annual	Hours	0	0	0	0.00	0	
A15.4.7	Kiln Hot to Cold stop due to external factor	Annual	Nos	0	0	0	0.00	0	
A15.4.8	Kiln Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.9	KilncCold to Hot start due to external factors	Annual	Hours	0	0	0	0.00	0	
A15.4.10	Kiln Cold to Hot start due to external factors	Annual	Nos	0	0	0	0.00	0	
A15.4.11	Kiln Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0	0	0.00	0	
A15.4.12	Kiln Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0	0	0.00	0	
A16	Note: DCs to provide separate Excel sheet in the Kiln format as specified above If no of kiln exceeds, for additional nos of Kiln installed								
B	Boiler Details								
B1	From Waste Heat (SI/CO/BF/Others) used for Power generation/Steam Generation								
B1.1	Boiler 1	From Waste Heat (SI/CO/BF/Others) used for Power generation							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.2	Boiler 2	From Waste Heat (SI/CO/BF/Others) used for Power generation							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.3	Boiler 3	From Waste Heat (SI/CO/BF/Others) used for Power generation							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.4	Boiler 4	From Waste Heat (SI/CO/BF/Others) used for Power generation							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B1.5	Boiler 5	From Waste Heat (SI/CO/BF/Others) used for Power generation							
(i)	Type								
(ii)	Rated Capacity		TPH				0.00		
(iii)	Steam Generation		TPH				0.00		
(iv)	Running Hours	Annual	Hours	0	0	0	0.00	0	
(v)	Type of Waste Heat	Annual							
(vi)	Designed Pressure	Annual	kg/cm2				0.00		
(vii)	Design Temperature	Annual	^{0}C				0.00		
(viii)	Design Efficiency	Annual	%				0.00		
B2	Steam Generation Boiler used for Power generation								
B2.1	Boiler 6	For Steam Generation Boiler							
(i)	Type			FBC	FBC	FBC		FBC	
(ii)	Rated Capacity		TPH	54.0	54.0	54.0	54.00	54.0	
(iii)	Total Steam Generation	Annual	Tonne	411241.8	411241.8	411241.8	411241.84	278332.3	
(iv)	Running hours	Annual	Hrs	8423.3	8423.3	8423.3	8423.27	5619.5	
(v)	Coal Consumption	Annual	Tonne	54825.2	54825.2	54825.2	54825.20	42595.5	
(vi)	GCV of Coal	Annual Average	kCal/kg	4712.8	4712.8	4712.8	4712.75	5175.2	
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00	0.0	

(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00	0.0	
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00	0.0	
(xiii)	Feed water Temperature	Annual	^{0}C	112.0	112.0	112.0	112.00	112.0	
(xiv)	Operating Efficiency	Annual Average	%	80.7	80.7	80.7	80.70	80.7	
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2	67.0	67.0	67.0	67.00	67.0	
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	498.0	498.0	498.0	498.00	498.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg	814.5	814.5	814.5	814.50	814.5	
(xviii)	Design Efficiency		%	83.0	83.0	83.0	83.00	83.0	
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**48.82**	**48.82**	**48.82**	**48.82**	**49.53**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**628.29**	**628.29**	**628.29**	**628.29**	**792.01**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**1.00**	**1.00**	**1.00**	**1.00**	**1.00**	
B2.2	**Boiler 7**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.3	**Boiler 8**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.4	**Boiler 9**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B2.5	**Boiler 10**	**For Steam Generation Boiler**							
(i)	Type								
(ii)	Rated Capacity		TPH	0.0	0.0	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.0	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg				0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg				0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg				0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.0	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg				0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%				0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2				0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.0	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg				0.00		
(xviii)	Design Efficiency		%				0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
B3	**Weighted Average Boiler 6-10**	**For Steam Generation Boiler**							
B3.1	**Total Steam Generation (Process Boiler)**	**B2.5(iii)+B2.4(iii)+B2.3(iii)+B2.2(iii)+B2.1(iii)**	**Tonnes**	**411241.84**	**411241.84**	**411241.84**	**411241.84**	**278332.28**	
B3.2	**Weighted Operating Efficiency of Boiler (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**80.70**	**80.70**	**80.70**	**80.70**	**80.70**	
B3.3	**Total Operating Capacity of Boilers (Process Boiler)**	**B2.5(xviii)+B2.4(xviii)+B2.3(xviii)+B2.2(xviii)+B2.1(xviii)**	**TPH**	**48.82**	**48.82**	**48.82**	**48.82**	**49.53**	
B3.4	**Weighted Specific Energy Cosumption (Process Boiler)**	**Weighted average of all 5 boilers**	**kCal/kg of Steam**	**628.29**	**628.29**	**628.29**	**628.29**	**792.01**	

B3.5	Weighted Percentage of Coal Energy Used in steam Generation (Process Boiler)	Weighted average of all 5 boilers	%	1.00	1.00	1.00	1.00	1.00	
B4	Note: DCs to provide separate Excel sheet in the Boiler format as specified above If no of boiler exceeds for additional nos. of boilers installed for Cogen/Steam								
C	Electricity								
C.1	Electricity from Grid / Other (Including Colony and Others)								
(i)	Purchased Electricity from Grid (SEB)	Annual	Lakh kWh	12.155	12.155	12.155	12.16	492.4920006	
(ii)	Renawble Energy (through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Electricity from CPP located outside from plant boundary (Through Wheeling)	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Renewable purchase Obligation of Plant (RPO) (Solar & Non-Solar)	Annual	%	0	0	0	0.00	0	
(v)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	Lakh kWh	0	0	0	0.00	0	
(vi)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	MW	0	0	0	0.00	0	
(vii)	Renewable Energy generator as approved by MNRE	Annual	MW	0	0	0	0.00	0	
(viii)	Quantum of Renewable Energy Certificates (REC) obtained as a Renewal Energy Generator (Solar & Non-Solar)	Annual	MWh	1933	1933	1933	1933.00	1510	
(ix)	Quantum of Energy sold under preferential tariff	Annual	MWh	0	0	0	0.00	0	
(x)	Plant Connected Load		kW	25557	25557	25557	25557.00	25557	
(xi)	Contract demand with utility		kVA		0	0	0.00	0	
(xii)	Notified Baseline SEC		TOE/Tonne			2.332	2.33		
(xiii)	Notified Target SEC		TOE/Tonne			2.1928	2.19		
(xiv)	Saving Target in TOE/ton of product as per PAT scheme Notification		TOE/Tonne			0.14	0.14		
(xv)	Equivalent Major Product Output in tonnes as per PAT scheme Notification		Tonnes			14835	14835.00		
(xvi)	Total Electricity Purchased from Grid/ others	C.1(i)+C.1(ii)+C.1(iii)	Lakh kWh	12.16	12.16	12.16	12.16	492.49	
(xvii)	Total Electricity Purchased from grid/ Other with out colony/construction power etc	IF((C.1(i)+C.1(ii)+C.1(iii))>C.5,((C.1(i)+C.1(ii)+C.1(iii))-C.5),0)		10.49	10.49	10.49	10.49	490.84	
(xviii)	Equivalent Thermal Energy of Purchased Electricity from Grid / Other without colony/construction power etc	C.1(xv)x860/10	Million kcal	902.43	902.43	902.43	902.43	42212.27	
C.2	Own Generation								
C.2.1	Through DG sets								
(i)	Grid Connected		*Yes/No*	NO	NO	NO	NO	NO	
(ii)	Install Capacity	Annual	MW	1.44	1.44	1.44	1.44	1.44	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	1.3802	1.3802	1.3802	1.38	0.1041	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	14.00138889	14.00138889	14.00138889	14.00	30.62	
C.2.2	Captive Power Plant CPP (For other than SID Plant)								
(i)	Grid Connected		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW	13.8	13.8	13.8	13.80	13.8	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	1044.026	1044.026	1044.026	1044.03	688.979	
(iv)	Auxiliary Power Consumption (APC)	Annual	%	9.73	9.73	9.73	9.73	9.88	
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh	3250	3250	3250	3250.00	3250	
(vi)	Plant Load Factor (PLF)	Annual	%	86.36	86.36	86.36	86.36	0	
(vii)	Running Hours	Annual	Hours	8423.3	8423.3	8423.3	8423.30	5582.183333	
Note	Please provide information for all CPP in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)								
C.2.3	Through Gas turbine								
(i)	Grid Connected		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	Lakh kWh	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hours	0	0	0	0.00	0	
Note	Please provide information for all GT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)								
C.2.4	Through Gas Generator (GG) sets								
(i)	Grid Connected		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Installed Capacity (C)	Annual	MW	0	0	0	0.00	0	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0	0	0	0.00	0	
(iv)	Designed Heat Rate	Annual	kcal/kWh				0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	Please provide information for all GG in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)								
C.2.5	Through Coal/Biomass based Boiler and WHRB Steam turbine								
(i)	Grid Connected		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Power Plant Capacity (C)	Annual	MW		0		0.00		
(iii)	Annual Grosss Unit Generation	Annual	Lakh kWh		0		0.00		
(iv)	Auxiliary Power Consumption (APC)	Annual	%				0.00		
(v)	Design Gross Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Plant Load Factor (PLF)	Annual	%				0.00		
(vii)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
Note	Please provide information for all WHRBT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)								
C.2.6	Through Co-Generation (Extraction Cum Condensing)								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	Annual	Tonnes						
(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	°C				0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 1	Annual	Tonnes						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	°C				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	Annual	Tonnes						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	°C				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	Thermal energy used in process	((C.2.6(xiv)*C.2.6(xii))+(C.2.6(xvii)*C.2.6(xviii))/1000	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xxi)	Thermal energy used in Power	(C.2.6(x)*C.2.6(vii))/1000)-C.2.6(xx)	Million kcal	0.00	0.00	0.00	0.00	0.00	
(xxii)	% of thermal energy in Process	C.2.6(xx)*1000/(C.2.6(vii)*C.2.6(x))	%	0.00	0.00	0.00	0.00	0.00	
(xxiii)	Heat Rate of Co-Gen (Extraction Cum Condensing)	(C.2.6(xxi)/C.2.6(iii))/10	kcal/kwh	0.00	0.00	0.00	0.00	0.00	
C.2.6.1	Through Co-Generation (Extraction/Back Pressure)								
(i)	Grid Conneted		*Yes/No*	YES	YES	YES	YES	YES	
(ii)	Install Capacity	*Annual*	MW	0	0	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%				0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh				0.00		
(vi)	Running Hours	Annual	Hrs	0	0	0	0.00	0	
	Steam Input	Annual	Tonnes						

(vii)	Input Steam Enthalpy	Annual	kcal/kg				0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2				0.00		
(ix)	Input Steam Temperature	Annual	°C	3615			0.00		3606
(x)	Input Steam Flow rate	Annual	Tonnes		0	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**						
(xi)	Steam Pressure	Annual	Kg/cm2				0.00		
(xii)	Steam Temperature	Annual	°C				0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg				0.00		458
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**						
(xv)	Steam Pressure	Annual	Kg/cm2				0.00		
(xvi)	Steam Temperature	Annual	°C				0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg				0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6.1(xiv)*C.2.6.1(xiii))+(C.2.6.1(xvii)*C.2.6.1(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6.1(x)*C.2.6.1(vii))/1000-C.2.6.1(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6.1(xx)*1000/(C.2.6.1(vii)*C.2.6.1(x))**	**%**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction /Back Pressure)**	**(C.2.6.1(xxi)/C.2.6.1(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xxiv)	**Total % of thermal energy in Process from Cogen**	**(C.2.5(xx)+C.2.6(xx))/(C.2.6(xxi)+C.2.5(xxi)+C.2.5(xx)+C.2.6(xx))**	**Factor**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.3	**Total Own Generation of Electricity**	**C.2.1.(iii)+C.2.2.(iii)+C.2.3.(iii)+C.2.4.(iii)+C.2.5.(iii)+C.2.6.(iii)**	**Lakh kWh**	**1045.41**	**1045.41**	**1045.41**	**1045.41**	**689.08**	
C.4	**Electricity Supplied to Grid/others**	**Annual**	**Lakh kWh**	**0**	**0**	**0**	**0.00**	**0**	
C.5	**Electricity Supplied to Colony/others**	**Annual**	**Lakh kWh**	**1.6616**	**1.6616**	**1.6616**	**1.66**	**1.6517**	
C.6	**Electricity Supplied to Grid/Colony/Others from WHRB ST**	**C.4+IF(C.5>C.1(xiv),(C.5-C.1(xiv)),0)**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.7	**Equivalent Thermal Energy supplied to grid/others**	**C.4*2717/10**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
C.8	**Total Electricity Consumed in Process and Auxilliaries**	**IF(C.5>C.1(xiv),((C.3-C.4)-(C.5-C.1(xiv)),(C.1(xv)+C.3-C.4))**	**Lakh kWh**	**1055.90**	**1055.90**	**1055.90**	**1055.90**	**1179.92**	
D	**Solid Fuel Consumption**								
D.1	**Non coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne	5344.56	5344.56	5344.56	5344.56		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	4712.75	4712.75	4712.75	4712.75	5175.219025	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	4817.25	4817.25	4817.25	4817.25	4404.310755	
(iv)	Quantity purchased	Annual	Tonne	72086.08	72086.08	72086.08	72086.08	63547.889	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	54825.2	54825.2	54825.2	54825.20	42595.495	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	21629.275	21629.275	21629.275	21629.28	20952.394	
(x)	**Total Quantity Consumed**	**D.1.(vi)+D.1.(viii)+D.1.(ix)**	**Tonne**	**76454.48**	**76454.48**	**76454.48**	**76454.48**	**63547.89**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.1.(ii)*D.1.(vi))/1000**	**Million kcal**	**258377.46**	**258377.46**	**258377.46**	**258377.46**	**220441.02**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.1.(ii)*D.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.1.(ii)*D.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.1.(iii)*D.1.(ix))/1000**	**Million kcal**	**104193.62**	**104193.62**	**104193.62**	**104193.62**	**92280.85**	
D.2	**Non Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne		0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne		0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne		0	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne		0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne		0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.2.(vi)+D.2.(viii)+D.2.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.2.(ii)*D.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.2.(ii)*D.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.2.(ii)*D.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.2.(iii)*D.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.3	**Coking Coal (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.3.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.3.(ii)*D.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.4	**Coking Coal (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.4.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.4.(ii)*D.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.5	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Indian)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.5.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.5.(ii)*D.5.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.6	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Imported)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(v)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.6.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.6.(ii)*D.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.7	**Coal Fines**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.7.(vii)+D.7.(viii)+D.7.(ix)+D.7.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.7.(ii)*D.7.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.7.(ii)*D.7.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.7.(ii)*D.7.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.7.(iii)*D.7.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.8	**Coal Rejects/Slurry**								

(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	3616	0	0	0.00	0	3607
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.8.(vii)+D.8.(viii)+D.8.(ix)+D.8.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.8.(ii)*D.8.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.8.(ii)*D.8.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.8.(ii)*D.8.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	page 459
(xiv)	**Thermal Energy Used in Process**	**D.8.(iii)*D.8.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.9	**Dolachar**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(xi)	**Total Quantity Consumed**	**D.9.(vii)+D.9.(viii)+D.9.(ix)+D.9.(x)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.9.(ii)*D.9.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.9.(ii)*D.9.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.9.(ii)*D.9.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.9.(iii)*D.9.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.10	**Bio mass or Other purchased Renewable solid fuels (pl. specify) baggase, rice husk, etc.**	**Thermal Energy Input through Biomass not to be taken into account if used in Process**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**10.(vi)+D.10.(vii)+D.10.(viii)+D.10.(**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.10.(ii)*D.10.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.10.(ii)*D.10.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.10.(ii)*D.10.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.10.(iii)*D.10.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.11	**Solid Waste (pl. specify and refer CPCB guidelines) rubber tyres chips, Municipal Solid waste etc.**	**Thermal Energy Input through solid waste, mentioned in CPCB guidelines, not to be taken into account if used in Process**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg				0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%				0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.11.(vi)+D.11.(vii)+D.11.(viii)+D.11.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.11.(ii)*D.11.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (WHRB)**	**D.11.(ii)*D.11.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.11.(ii)*D.11.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**D.11.(iii)*D.11.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.12	**Total Solid Energy Used in Power Generation (CPP)**	**IF(OR(C.2.2(i)="yes"),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi))**	**Million kcal**	**258377.46**	**258377.46**	**258377.46**	**258377.46**	**220441.02**	
D.12.1	**Total Solid Energy Used in Power Generation (CPP) for HR**	**D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi)**	**Million kcal**	**258377.46**	**258377.46**	**258377.46**	**258377.46**	**220441.02**	
D.13	**Total Solid Energy Used in Power Generation (WHRB)**	**IF(OR(C.2.5(i)="yes"),D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)+D.10.(xiii)+D.11.(xiii),D.1.(xiii)+D.2.(xiii)+D.7(xiii)+D.8.(xiii))**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.13.1	**Total Solid Energy Used in Power Generation (WHRB) for HR**	**,D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.14	**Total Solid Energy Used in Power Generation (Cogen)**	**If(Or(C.2.6(i),C.2.6.1(i)="yes"),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)+D.8(xii)*(1-C.2.6.1(xxiii)+D.9(xii)*(1-c.2.6.1(xxiii)),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
D.15	**Total Solid Energy Used in Process**	**D.1.(xiv)+D.2.(vxiv)+D.3.(vii)+D.4.(vii)+D.5(xv)+D.6(xiv)**	**Million kcal**	**104193.62**	**104193.62**	**104193.62**	**104193.62**	**92280.85**	
E	**Liquid Fuel Consumption**								
E.1	**Furnace Oil**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre		0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0		**0.00**		
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0		**0.00**		
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0		0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0		**0.00**		
(ix)	Quantity used for process	Annual	kilo Litre		0	0	**0.00**	0	
(x)	**Total F. Oil Consumption as fuel**	**(E.1.(v)+E.1.(vi)+E.1.(vii)+E.1.(viii)+E.1.(ix))*E.1.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.1.(ii)*E.1.(iv)*E.1.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.1.(ii)*E.1.(iv)*E.1.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.1.(ii)*E.1.(iv)*E.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.1.(ii)*E.1.(iv)*E.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.1.(ii)*E.1.(iv)*E.1.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.2	**Light Sulphur Heavy Stock (LSHS)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total LSHS Consumption as fuel**	**(E.2.(v)+E.2.(vi)+E.2.(vii)+E.2.(viii)+E.2.(ix))*E.2.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.2.(ii)*E.2.(iv)*E.2.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.2.(ii)*E.2.(iv)*E.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.2.(ii)*E.2.(iv)*E.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.2.(ii)*E.2.(iv)*E.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.2.(ii)*E.2.(iv)*E.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	

E.3	**High Sulphur Heavy Stock (HSHS)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total HSHS Consumption as fuel**	**(E.3.(v)+E.3.(vi)+E.3.(vii)+E.3.(viii)+E.3.(ix))*E.3.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.3.(ii)*E.3.(iv)*E.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.3.(ii)*E.3.(iv)*E.3.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.3.(ii)*E.3.(iv)*E.3.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.3.(ii)*E.3.(iv)*E.3.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.3.(ii)*E.3.(iv)*E.3.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.4	**Light Diesel Oil (LDO)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre		0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre		0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre		0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre		0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre		0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre		0	0	**0.00**	0	
(x)	**Total LDO Consumption as fuel**	**(E.4.(v)+E.4.(vi)+E.4.(vii)+E.4.(viii)+E.4.(ix))*E.4.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.4.(ii)*E.4.(iv)*E.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.4.(ii)*E.4.(iv)*E.4.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.4.(ii)*E.4.(iv)*E.4.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.4.(ii)*E.4.(iv)*E.4.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.4.(ii)*E.4.(iv)*E.4.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.5	**High Speed Diesel (HSD)**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne	53.38	53.38	53.38	**53.38**		
(ii)	Gross calorific value	Annual	kcal/ kg	10642	10642	10642	**10642.00**	10642	
(iii)	Quantity purchased	Annual	kilo Litre	119.863	119.863	119.863	**119.86**		
(iv)	Average Density	Annual	kg/ltr	0.8279	0.8279	0.8279	**0.83**	0.84	
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	32.0946	32.0946	32.0946	**32.09**	2.896	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(viii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(ix)	Quantity used for material handling / Transportation (Raw material handling , Loco, etc)	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	Quantity used for process heating	Annual	kilo Litre	0	0	0	**0.00**	0	
(xi)	**Total HSD Consumption as fuel**	**(E.5.(v)+E.5.(vi)+E.5.(vii)+E.5.(viii)+E.5.(ix)+E.5.(x))*E.5.(iv)**	**Tonne**	**26.57**	**26.57**	**26.57**	**26.57**	**2.43**	
(xii)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.5.(ii)*E.5.(iv)*E.5.(v))/1000**	**Million kcal**	**282.77**	**282.77**	**282.77**	**282.77**	**25.89**	
(xiii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.5.(ii)*E.5.(iv)*E.5.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.5.(ii)*E.5.(iv)*E.5.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Power Generation (Transportation)**	**(E.5.(ii)*E.5.(iv)*E.5.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xvi)	**Thermal Energy Used in Process**	**(E.5.(ii)*E.5.(iv)*E.5.(x))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.6	**Liquid Waste (pl. specify and refer CPCB guidelines)**	**Thermal Energy Input through Liquid waste, mentioned in CPCB guidelines, not to be taken into account**							
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg				**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	0	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr				**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	0	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	0	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	0	0	**0.00**	0	
(x)	**Total Liquid waste Consumption as fuel**	**(E.6.(v)+E.6.(vi)+E.6.(vii)+E.6.(viii)+E.6.(ix))*E.6.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.6.(ii)*E.6.(iv)*E.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.6.(ii)*E.6.(iv)*E.6.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.6.(ii)*E.6.(iv)*E.6.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**(E.6.(ii)*E.6.(iv)*E.6.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xvv)	**Thermal Energy Used in Process**	**(E.6.(ii)*E.6.(iv)*E.6.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.7	**Total Liquid Energy Used in Power Generation (DG Set)**	**IF(C.2.1(i)="yes",E.6(xi)+E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi),E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi)**	**Million kcal**	**282.77**	**282.77**	**282.77**	**282.77**	**25.89**	
E.8	**Total Liquid Energy Used in Power Generation (CPP)**	**IF(C.2.2(i)="yes",E.6(xii)+E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii),E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E8.1	**Total Liquid Energy Used in Power Generation (CPP) for HR**	**E.6(xii)+E.5(xii)+E.4(xi)+E3(xi)+E.2(xi)+E.1(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.9	**Thermal Energy Used in Power Generation (WHRB)**	**IF(C.2.3(i)="yes",E.6(xiii)+E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii),E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E9.1	**Thermal Energy Used in Power Generation (WHRB) for HR**	**E.6(xiii)+E.5(xiii)+E.4(xii)+E3(xii)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.10	**Thermal Energy Used in Power Generation (Cogen)**	**IF(OR(C.2.6(i),C.2.6.1(i)="yes"),(E.6(xiv)*(1-C.2.6.1(xxiv))+E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)),E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
E.11	**Total Liquid Energy Used in Process**	**E.1.(xv)+E.2.(xv)+E.3.(xv)+E.4.(xv)+E.5.(xvi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F	**Gaseous Fuel**								
F.1	**Compressed Natural Gas CNG/PNG/LNG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.1.(iv)+F.1.(v)+F.1.(vi)+F.1.(vii)+F.1.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.1.(ii)*F.1.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.1.(ii)*F.1.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.1.(ii)*F.1.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.1.(ii)*F.1.(vii)+F.1.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.2	**NG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		

(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	3618	0	0	**0.00**	0	3609
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.2.(iv)+F.2.(v)+F.2.(vi)+F.2.(vii)+F.2.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.2.(ii)*F.2.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.2.(ii)*F.2.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.2.(ii)*F.2.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.2.(ii)*F.2.(vii)+F.2.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.3	**CBMG**								461
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM				**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM				**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.3.(iv)+F.3.(v)+F.3.(vi)+F.3.(vii)+F.3.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.3.(ii)*F.3.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.3.(ii)*F.3.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.3.(ii)*F.3.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.3.(ii)*F.3.(vii)+F.3.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.4	**LPG**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/kg				**0.00**		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.4.(iv)+F.4.(v)+F.4.(vi)+F.4.(vii)+F.4.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.4.(ii)*F.4.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.4.(ii)*F.4.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.4.(ii)*F.4.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.4.(ii)*F.4.(vii)+F.4.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.5	**Propane**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/kg				**0.00**		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	**0.00**	0	
(ix)	Quantity used as Raw Material	Annual	Million kg	0	0	0	**0.00**	0	
(x)	**Total Gas Consumption as fuel**	**F.5.(iv)+F.5.(v)+F.5.(vi)+F.5.(vii)+F.5.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (GT)**	**F.5.(ii)*F.5.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (GG)**	**F.5.(ii)*F.5.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Quantity used for power generation (Cogen)**	**F.5.(ii)*F.5.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**F.5.(ii)*F.5.(vii)+F.5.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.6	**Naptha**								
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne				**0.00**		
(ii)	Gross calorific value	Annual	kcal/kg				**0.00**		
(iii)	Quantity purchased	Annual	Million kg	0	0	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.6.(iv)+F.6.(v)+F.6.(vi)+F.6.(vii)+F.6.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.6.(ii)*F.6.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.6.(ii)*F.6.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.6.(ii)*F.6.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.6.(ii)*F.6.(vii)+F.6.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.7	**Quantity used for power generation (GT)**	**F.1.(x)+F.2.(x)+F.3.(x)+F.4.(x)+F.5.(x)+F.6.(x)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.8	**Quantity used for power generation (GG)**	**F.1.(xi)+F.2.(xi)+F.3.(xi)+F.4.(xi)+F.5.(xi)+F.6.(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.9	**Quantity used for power generation (Cogen)**	**F.1.(xii)+F.2.(xii)+F.3.(xii)+F.4.(xii)+F.5.(xii)+F.6.(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.10	**Total Gaseous Energy Used in Process**	**F.1.(xiii)+F.2.(xiii)+F.3.(xiii)+F.4.(xiii)+F.5.(xiii)+F.6.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.11	**Gas Import/Export (All type of Gaseous Fuel)**								
F.11.1	**Gas Import**								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	**Thermal Energy for Imported Gas**	**F.11.1 (i) x F.11.1 (ii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
F.11.2	**Gas Export**								
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM				0.00		
(iii)	**Thermal Energy for Exported Gas**	**F.12.1 (i) x F.12.1 (ii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
(iv)	**Total thermal Energy for Gas (Import-Export)**	**F.11.1 (iii) - F.12.1 (iii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
G	**Total Thermal Energy**								
G.1	**Total Thermal Energy Used in Power Generation**	**F.7+F.8+F.9+E.7+E.8+E.9+E.10+D.10+D.11+D.12**	**Million kcal**	**258660.23**	**258660.23**	**258660.23**	**258660.23**	**220466.90**	
G.2	**Total Thermal Energy Used in Process**	**D.13+E.11+F.10**	**Million kcal**	**104193.62**	**104193.62**	**104193.62**	**104193.62**	**92280.85**	
G.3	**Total Thermal Energy Input through all Fuels**	**G.1+G.2+F.11.2(iv)**	**Million kcal**	**362853.86**	**362853.86**	**362853.86**	**362853.86**	**312747.76**	
H	**Gross Heat Rate**								
H.1	**Gross Heat Rate of DG Set**	**E.7x10/C.2.1.(iii)**	**kcal/kWh**	**2048.76**	**2048.76**	**2048.76**	**2048.76**	**2486.85**	
H.2	**Gross Heat Rate of CPP (Steam Turbine)**	**(D.7+E.8)x10/C.2.2.(ii)**	**kcal/kWh**	**2474.82**	**2474.82**	**2474.82**	**2474.82**	**3199.53**	
H.3	**Grross Heat Rate of WHRB Turbine**	**(E9.1+D.12)*10/C.2.5(iii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.4	**Gross Heat Rate of CPP (Gas Turbine)**	**F.3x10/C.2.3.(ii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.5	**Gross Heat Rate of Gas Generator (GG)**	**F.8*10/C.2.4(iii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.6	**Gross Heat Rate of CoGen (Condensing)**	**C.2.6(vii)*C.2.6(x)-C.2.6(xiii)*C.2.6(xiv)-C.2.6(xvii)*C.2.6(xviii)*1000/((B3.2/100)*C.2.6(iii)*10^5)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.7	**Gross Heat Rate of CoGen (Extraction)**	**C.2.6.1(vii)*C.2.6.1(x)-C.2.6.1(xiii)*C.2.6.1(xiv)-C.2.6.1(Xvii)*C.2.6.1(xviii)*1000/((B3.2/100)*C.2.6.1(iii)*10^5)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	
H.6	**Weighted Average Heat Rate**	**H.1*C.2.1(iii)+H.2*C.2.2(iii)+H.3*C.2.5(iii)+H.4*C.2.3(iii)+H.5*C.2.4(iii)+H.6*C.2.6(iii)+H.7*C.2.6.1(iii)+C.1.(xiv)*860/C.2.1(iii)+C.2.2(iii)+C.2.5(iii)+C.2.4(iii)+C.2.6(iii)+C.2.6.1(iii)+C.1.(xiv)**	**kcal/kWh**	**2455.70**	**2455.70**	**2455.70**	**2455.70**	**2224.33**	

I	**Performance Indicators (MBF)**								
I.1	SEC of Other Products		Fuel consumtion / tonne of products	0	0	0	**0.00**	0	
I.2	SEC of Other Products		kWh/T	0	0	0	**0.00**	0	
I.3	Sinter SEC		Gkal/tp	0	0	0	**0.00**	0	
I.4	Sinter SEC		Gkal/ tcs	0	0	0	**0.00**	0	
I.5	Blast Furnace (B.F.) SEC		Gkal/tp	0	0	0	**0.00**	0	
I.6	Blast Furnace (B.F.) SEC		Gkal/ tcs	0	0	0	**0.00**	0	
J	**Raw Material Quality**								
J.1	FeT in Iron ore		%	0	0	0	**0.00**	0	
J.2	Ash % in Non Coking Coal		%	33.28	33.28	33.28	**33.28**	0	
J.3	GCV of Non Coking Coal		Kcal/kg	4817.25	4817.25	4817.25	**4817.25**	0	
J.4	Ash % in Coking Coal		%	0	0	0	**0.00**	0	
K	**Coal Quality in CPP/Boiler (As Fired Basis)**								
i	**Ash**	**Annual**	**%**	30.85	30.85	30.85	**30.85**	0	
ii	**Moisture**	**Annual**	**%**	6.02	6.02	6.02	**6.02**	0	
iii	**Hydrogen**	**Annual**	**%**	0	0	0	**0.00**	0	
iv	**GCV**	**Annual**	**kcal/kg**	4712.8	4712.8	4712.8	**4712.80**	0	
L	**Miscelleneous Data $**								
L.1	**Additional Equipment installation after baseline year due to Environmental Concern**								
(i)	**Additional Electrical Energy Consumed**	**Annual**	**Lakh kWh**					**0.00**	
(ii)	**Additional Thermal Energy Consumed**	**Annual**	**Million kcal**					**0.00**	
L.2	**Biomass/ Alternate Fuel availability**								
(i)	Biomass replacement with Fossil fuel due to Biomass un-availbility (used in the process)	Annual	Tonne					0.00	
(ii)	Alternate Solid Fuel replacement with Fossil fuel due to Alternate Solid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
(iii)	Alternate Liquid Fuel replacement with Fossil fuel due to Alternate Liquid Fuel un-availbility (used in the process)	Annual	Tonne					0.00	
L.3	**Project Activities (Construction Phase)**								
(i)	**Electrical Energy Consumed due to commissioning of Equipment**	**Annual**	**Lakh kWh**					**0.00**	
(ii)	**Thermal Energy Consumed due to commissioning of Equipment**	**Annual**	**Million kcal**					**0.00**	
L.4	**New Line/Unit Commissioning**								
(i)	Electrical Energy Consumed due to commissioning of New process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy Consumed due to commissioning of New Process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Million kcal					0.00	
(iii)	SI from DRI route Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(iv)	Pig Iron Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns					0.00	
(v)	Date of Commissioning (70% Capacity Utilisation)	Date						0.00	
(vi)	Electrical Energy Consumed from external source due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Lakh kWh					0.00	
(vii)	Thermal Energy Consumed due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Million kcal					0.00	
(viii)	Steam Generation From Co-Gen till New Line /Unit attains 70% of Capacity Utilisation	Annual	Ton					0.00	
(ix)	Net Electricity Genration till new line/ Unit attains 70% Capacity Utilisation	Annual	Lakh kWh					0.00	
(x)	Date of Commissioning (70% Capacity Utilisation)	Date						0.00	
L.5	**Unforeseen Circumstances**								
(i)	Electrical Energy to be Normalised	Annual	Lakh kWh					0.00	
(ii)	Thermal Energy to be Normalised	Annual	Million kcal					0.00	
$ Authentic documents in support of claim in Thermal and Electrical Energy is required									
M	Documentation for Normalisation								
(i)	Scrap % -Document Available for Normalisation		Yes/No	No	No	No	No	No	
(ii)	Start Stop-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(iii)	Fuel Quality in CPP & Co-Gen -Document Available for Normalisation		Yes/No	No	No	No	No	Yes	
(iv)	Power Mix-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(v)	Intermediate Product-Document Available for Normalisation		Yes/No	No	No	No	No	No	
(vi)	Other Factos - Document Available for Normalisation		Yes/No	No	No	No	No	No	
N	**Energy Saving and Investment**	**Annual**	**Million Rs**						
(i)	Investment made for achieving target	Annual	Million Rs	0.00	0.00	0.00	**0.00**		
(ii)	**Thermal Energy Saving during the year**								
a	**Solid Fuel**								
a.1	Coal	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.2	Lignite	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.3	Petro Coke	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
a.4	Biomass/Waste	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
b	**Liquid Fuel (FO/HSD/LDO/LSHS/HSHS)**	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
c	**Gaseous Fuel**	Annual	Million kcal	0.00	0.00	0.00	**0.00**	0.00	
(iii)	Electrical energy Saving during the year	Annual	Lakh kWH	0.00	0.00	0.00	**0.00**	0.00	
O	**Process Flow Diagram Attached**	**Yes/No**					**Yes**		

	Please enter numeric values or leave blank
0	**Please eneter numeric value or "0"**
	Fomulae Protected
Yes	Select from the list Yes or No
	Data not to be filled
	Please enter text value

We .....undertake that information furnished in the Sectror Specific Form I are complete and acciurate to the best of my knowledge. I also undertake that the information provided for Normalisation is limited to external factors only.

Signature of Energy Manager
Name

Date:

Place:

(Signature of the Chief Executive)

Organisation Seal

Shyam Century Ferrous Ltd.

Regd. Office : Vill. : Lumshnong, PO : Khaliehriat, Dist. East Jaintia Hills, Meghalaya – 793210, Phone No : 03655-278215/16/18, Fax : 03655-278217, E-mail ID : investors@shyamcenturyferrous.com, Website : www.shyamcenturyferrous.com
CIN : L27310ML2011PLC008578

Ref: SCF/PERS/2019-20/001
Date: 24th June, 2019

To
The Sr. Electrical Inspector &
State Designated Agency on Energy Conservation
Meghalaya, Shillong

Sub : Submission of FORM-1 for the FY-2018-19 & FORM-3

Dear Sir,

Please find furnished **Form – 1** for the FY-2018-19 & Implementation of Energy Savings Measures in **FORM-3** of our plant enclosed herewith.

This is for your kind information please.

RECEIVED 25/06/19
INSPECTORATE OF ELECTRICITY
MEGHALAYA SHILLONG

Thanking you,

Yours faithfully,

For Shyam Century Ferrous Ltd.

For SHYAM CENTURY FERROUS LTD.

Authorised Signatory

M/S SHYAM CENTURY FERROUS LTD. PIN : 793101 BYRNIHAT, MEGHALAYA

M.V.K. Nageswara Rao
(Chief Executive Officer)
Phone. No. 9485099191
email: nageswararao@starcement.co.in

Encl: Filled up copy in **Form – 1 & Implementation of Energy Savings Measures in FORM-3**.

Copy to: i) The Director General, Bureau of Energy Efficiency, Govt. of India, Ministry of Power, 4th Floor, SEWA Bahwan, R.K.Puram, New Delhi-110066.

Form-1

Details of information regarding Total Energy Consumed and Specific Energy Consumption Per unit of Production
(See Rule 3)

A.	General Details	Description	
1	Name of the Unit	Shyam Century Ferrous Limited	
2	i) Year of Establishment	2000	
	ii) Registration No (As provided by BEE)	INS0039ML	
3	Sector and Sub-Sector in which the Designated Consumers falls	Sector	Sub-Sector
		Iron & Steel (Sponge Iron)	Ferro Alloy
4. (i)	Complete address of DCs Unit location **(including Chief Executive's name & designation)** with mobile, telephone, fax nos. & e-mail.	Mr. MVK NAGESWARA RAO,CEO,EPIP, RAJABAGAN,BYRNIHAT,RI-BHOI,MEGHALAYA,793101,,03638-200522,9485099191,nageswararao@starcement.co.in	
(ii)	Registered Office address with telephone, fax nos. & e-mail	LUMSHNONG,KHALIEHRIAT,EAST JAINTIA HILLS,MEGHALAYA,793210,03655-278215/16/18,03655-278217	
(iii)	Energy Manager's Name, designation, Registration No., Address, Mobile, Telephone, Fax nos. & e-mail	Mr.Arvind Rai,ENERGY MANAGER,EA-8391,,EA,03638-200522,9862571299,arvindrai@starcement.co.in	

B.	Production details			
5	Manufacturing Industries notified as Designated Consumers			
Sr No	Products	Unit	Previous Year	Current Year
		(1)	(2)	(3)
(i)	Product 1: Sponge Iron Production	Tonne	0.00	0.00
(ii)	Product 2: Steel Melting Shop Production	Tonne	0.00	0.00
(iii)	Product 3: Ferro Chrome Production	Tonne	0.00	0.00
(iv)	Product 4: FiMN Production	Tonne	0.00	0.00
(v)	Product 5: SiMn Production	Tonne	0.00	0.00
(vi)	Product 6: Pig Iron Production	Tonne	0.00	0.00
(vii)	Product 7: Ferro Silicon Production	Tonne	14835.00	15219.00
(viii)	Product 8: Rolling Mill Production	Tonne	0.00	0.00
(ix)	Total Equivalent Product SI+SMS+Others	Tonne	0.00	0.00
(x)	Total Equivalent Product SiMn	Tonne	0.00	0.00
(xi)	Total Equivalent Product Ferro Chrome	Tonne	0.00	0.00
(xii)	Total Equivalent product Hot Metal/Pig Iron	Tonne	0.00	0.00
(xiii)	Total Equivalent Product SPU	Tonne	0.00	0.00

C	Energy Consumption Details of Manufacturing Industries notified as Designated Consumers			
Sr No	Item	Unit	Previous Year	Current Year
		(1)	(2)	(3)
6. (i)	Total Electricity Purchased from Grid/Other Source	Million kwh	61.31	86.87
(ii)	Total Electricity Generated	Million kwh	64.21	34.71
(iii)	Total Electricity Exported	Million kwh	0.00	0.00
(iv)	Total Electrical Energy Consumption	Million kwh	125.51	121.42
(v)	Total Solid Fuel Consumption	Million kCal	293069.07	169487.77
(vi)	Total Liquid Fuel Consumption	Million kCal	156.55	33.96
(vii)	Total Gaseous Fuel Consumption	Million kCal	0.00	0.00
(viii)	Total Thermal Energy Consumption	Million kCal	293225.62	169521.74
(ix)	Total Normalized Energy Consumption (Thermal+Electrical)	TOE	34594.85	29770.89

For SHYAM CENTURY FERROUS LTD.

Authorised Signatory

(Arvind Rai - EA-8391)

D	Specific Energy Consumption Details			
7. i	Specific Energy Consumption(Without Normalization)	TOE/T	2.33	1.96
ii	Specific Energy Consumption (Normalized)	TOE/T	NA	1.956

E	Power Plants notified as Designated Consumer			
8. i.	Total Capacity	MW		
ii	Unit Configuration	No. of units with their capcity		
iii	Annual Gross Generation	MU		
iv	Annual Plant Load Factor (PLF)	%		
v	Station Gross Design Heat Rate	kcal/kWh		
vi	Station Gross Operative Heat Rate	kcal/kWh		
vii	Auxiliary Power Consumption	%		
viii	Operative Net Heat Rate	kcal/kWh		
ix	Operative Net Heat Rate (Normalized)	kcal/kWh		

F	Sector-Wise Details		
S.No	Name of the Sector	Sub-Sector	Pro-forma in which the details to be furnished
a	Aluminium	Refinery/Smelter	Sa_1
		Cold Rolling Sheet	Sa_2
b	Cement	Cement	Sb
c	Chlor-Alkali	Chlor-Alkali	Sc
d	Fertilizer	Fertilizer	Sd
e	Iron and Steel	Integrated Steel	Se_1
		Sponge Iron	Se_2
f	Pulp and Paper	Pulp and Paper	Sf
g	Textile	Composite	Sg_1
		Fiber	Sg_2
		Spinning	Sg_3
		Processing	Sg_4
h	Thermal Power Plant	Thermal Power Plant	Sh

I/we undertake that the information supplied in the Form 1 and pro- forma is accurate to the best of my knowledge and the data furnished in Form 1 has been adhered to the data given in the concerned pro forma.

Authorised Signatory and Seal

For SHYAM CENTURY FERROUS LTD.

Authorised Signatory

Name of Authorised Signatory: Mr. M.V.K.Nageswara Rao (CEO)

Name of the Designated Consumer: Shyam Century Ferrous Ltd

Full Address: EPIP, Rajabagan, Byrnihat, RI-BHOI, Meghalaya-793101.

Signature:-

Name of Energy Manager: Mr Arvind Rai

Registration Number: EA-8391

Seal

M/S SHYAM CENTURY FERROUS LTD. * BYRNIHAT, MEGHALAYA * PIN : 793101

FORM-Se$_2$ (Details of Production and Energy Consumption)

Iron & Steel (Sponge Iron)

	Name of the Unit	SHYAM CENTURY FERROUS (A Division of STAR FERRO AND CEMENT LTD.)					
S. No	**Particulars**		**Unit**	**Previous Year (20.... 20...)**	**Average of Year**	**Current/Asssesment/Target Year (20.....20....)**	**Source of Data**
A	**Production and capacity utilization details**			**2014-15**			
A1	**Sponge Iron**						
A1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A1.2	Production	Annual	Tonne	0	**0.00**	0	
A1.3	Sponge Iron Import	Annual	Tonne	0	**0.00**	0	
A1.4	Sponge Iron Export	Annual	Tonne	0	**0.00**	0	
A1.5	Opening Stock (Sponge Iron)	Annual	Tonne	0	**0.00**	0	
A1.6	Closing Stock (Sponge Iron)	Annual	Tonne	0	**0.00**	0	
A1.7	Number of Kilns		Number	0	**0.00**	0	
A1.8	Total Kiln Capacity		TPD		**0.00**		
A1.9	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A1.10	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A1.11	Specific Coal Consumption	Annual	t/t		**0.00**		
A1.12	**Thermal SEC**	**A1.9*10^6/A1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A1.13	**Electrical SEC**	**A1.10*10^5/A1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A1.14	**Capacity Utilization**	**A1.2x100/A1.1**	**%**	**0.00**	**0.00**	**0.00**	
A2	**Dolachar**						
A2.1	Dolachar inhouse produced	Annual	Tonne	0	**0.00**	0	
A2.2	Dolachar Import	Annual	Tonne	0	**0.00**	0	
A2.3	Dolachar Export	Annual	Tonne	0	**0.00**	0	
A2.4	Average Gross calorific value of Dolachar	Annual	kcal/kg		**0.00**		
A2.5	Opening Stock (Dolachar)	Annual	Tonne	0	**0.00**	0	
A2.6	Closing Stock (Dolachar)	Annual	Tonne	0	**0.00**	0	
A3	**Coal Fines**						
A3.1	Coal Fines inhouse produced	Annual	Tonne	0	**0.00**	0	
A3.2	Coal Fines Import	Annual	Tonne	0	**0.00**	0	
A3.3	Coal Fines Export	Annual	Tonne	0	**0.00**	0	
A3.4	Average Gross calorific value of Coal Fines	Annual	kcal/kg		**0.00**		
A3.5	Opening Stock (CoalFines)	Annual	Tonne	0	**0.00**	0	
A3.6	Closing Stock (Coal Fines)	Annual	Tonne	0	**0.00**	0	
A4	**Steel Melting Shop**						
A4.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A4.2	Production	Annual	Tonne	0	**0.00**	0	
A4.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A4.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A4.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A4.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A4.7	Ingot Import	Annual	Tonne	0	**0.00**	0	
A4.8	Ingot Export	Annual	Tonne	0	**0.00**	0	
A4.9	**Thermal SEC**	**A4.5*10^6/A4.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A4.10	**Electrical SEC**	**A4.6*10^5/A4.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A4.11	**Capacity Utilization**	**A4.2x100/A4.1**	**%**	**0.00**	**0.00**	**0.00**	
A5	**Ferro Chrome**						
A5.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A5.2	Production	Annual	Tonne	0	**0.00**	0	
A5.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A5.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A5.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A5.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A5.7	Ferro Chrome Import	Annual	Tonne	0	**0.00**	0	
A5.8	Ferro Chrome Export	Annual	Tonne	0	**0.00**	0	
A5.9	**Thermal SEC**	**A5.5*10^6/A5.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A5.10	**Electrical SEC**	**A5.6*10^5/A5.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A5.11	**Capacity Utilization**	**A5.2x100/A5.1**	**%**	**0.00**	**0.00**	**0.00**	
A6	**FeMn**						
A6.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A6.2	Production	Annual	Tonne	0	**0.00**	0	
A6.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A6.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A6.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A6.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A6.7	FeMn Import	Annual	Tonne	0	**0.00**	0	
A6.8	FeMn Export	Annual	Tonne	0	**0.00**	0	
A6.9	**Thermal SEC**	**A6.5*10^6/A6.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A6.10	**Electrical SEC**	**A6.6*10^5/A6.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A6.11	**Capacity Utilization**	**A6.2x100/A6.1**	**%**	**0.00**	**0.00**	**0.00**	
A7	**SiMn**						
A7.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A7.2	Production	Annual	Tonne	0	**0.00**	0	
A7.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A7.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A7.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A7.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A7.7	SiMn Import	Annual	Tonne	0	**0.00**	0	
A7.8	SiMn Export	Annual	Tonne	0	**0.00**	0	
A7.9	**Thermal SEC**	**A7.5*10^6/A7.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A7.10	**Electrical SEC**	**A7.6*10^5/A7.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A7.11	**Capacity Utilization**	**A7.2x100/A7.1**	**%**	**0.00**	**0.00**	**0.00**	
A8	**Ferro Silicon**						
A8.1	Installed Production Capacity	Annual Installed Capacity	Tonne	21600	**21600.00**	21600	As per CTO copy
A8.2	Production	Annual	Tonne	14835	**14835.00**	15219	Prod dummary report, Plant verified docs
A8.3	Opening Stock	Annual	Tonne	0	**0.00**	215.432	Verified from Account summary report
A8.4	Closing Stock	Annual	Tonne	0	**0.00**	648.322	Verified from Account summary report
A8.5	Thermal energy Used	Annual	Million kcal	78774.69	**78774.69**	71747.61	(Total fuel used in CPP + Process) x Fuel wt avg GCV
A8.6	Electrical Energy Used	Annual	Lakh kwh	1191.6727	**1191.67**	1173.4925	Plant power report
A8.7	Pig Iron Import	Annual	Tonne	0	**0.00**	0	
A8.8	Pig Iron Export	Annual	Tonne	0	**0.00**	14786.11	Verified from Account summary report
A8.9	**Thermal SEC**	**A8.5*10^6/A8.2**	**kcal/Tonne**	**5310056.67**	**5310056.67**	**4714344.26**	
A8.10	**Electrical SEC**	**A8.6*10^5/A8.2**	**kWh/Tonne**	**8032.85**	**8032.85**	**7710.71**	
A8.11	**Capacity Utilization**	**A8.2x100/A8.1**	**%**	**68.68**	**68.68**	**70.46**	
A9	**Pellet plant**						
A9.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A9.2	Production	Annual	Tonne	0	**0.00**	0	
A9.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A9.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A9.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A9.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A9.7	Pellet Import	Annual	Tonne	0	**0.00**	0	
A9.8	Pellet Export	Annual	Tonne	0	**0.00**	0	

A9.9	**Thermal SEC (Per Tonnne of Product)**	**A9.5*10^6/A9.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	
A9.10	**Electrical SEC (Per Tonne of Product)**	**A9.6*10^5/A9.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	
A9.11	**Capacity Utilization**	**A9.2x100/A9.1**	**%**	**0.00**	**0.00**	**0.00**	
	i) Please include the energy of Pellet plant in the Fuel Consumption section also. The electrical and thermal energy used in the Pellet plant will not be considered in all the Baseline as well as in the assessment year						
A10	**Mini Blast Furnace**						
A10.1	**Sinter plant**						
A10.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A10.1.2	Production	Annual	Tonne	0	**0.00**	0	
A10.1.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A10.1.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A10.1.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A10.1.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A10.1.7	Sinter Import	Annual	Tonne	0	**0.00**	0	
A10.1.8	Sinter Export	Annual	Tonne	0	**0.00**	0	
A10.1.9	**Thermal SEC (Per Tonnne of Product)**	**A10.1.5*10^6/A10.1.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	
A10.1.10	**Electrical SEC (Per Tonne of Product)**	**A10.1.6*10^5/A10.1.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	
A10.1.11	**Capacity Utilization**	**A10.1.2x100/A10.1.1**	**%**	**0.00**	**0.00**	**0.00**	
A10.2	**Coke Oven plant**						
A10.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A10.2.2	Production	Annual	Tonne	0	**0.00**	0	
A10.2.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A10.2.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A10.2.5	Thermal energy Used (Other than Coking Coal)	Annual	Million kcal	0	**0.00**	0	
A10.2.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A10.2.7	Coke Import	Annual	Tonne	0	**0.00**	0	
A10.2.8	Coke Export	Annual	Tonne	0	**0.00**	0	
A10.2.9	**Thermal SEC (Per Tonnne of Product)**	**A10.2.5*10^6/A10.2.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	
A10.2.10	**Electrical SEC (Per Tonne of Product)**	**A10.2.6*10^5/A10.2.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	
A10.2.11	**Capacity Utilization**	**A10.2.2x100/A10.2.1**	**%**	**0.00**	**0.00**	**0.00**	
A10.3	**Blast Furnace**						
A10.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A10.3.2	Production	Annual	Tonne	0	**0.00**	0	
A10.3.3	Opening Stock	Annual	Tonne	0	**0.00**	0	
A10.3.4	Closing Stock	Annual	Tonne	0	**0.00**	0	
A10.3.5	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A10.3.6	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A10.3.7	Hot Metal Import	Annual	Tonne	0	**0.00**	0	
A10.3.8	Hote Metal Export	Annual	Tonne	0	**0.00**	0	
A10.3.9	**Thermal SEC (Per Tonnne of Product)**	**A10.3.5*10^6/A10.3.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	
A10.3.10	**Electrical SEC (Per Tonne of Product)**	**A10.3.6*10^5/A10.3.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	
A10.3.11	**Capacity Utilization**	**A10.3.2x100/A10.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	
A10.4	**Other Aux**						
A10.4.1	Thermal Energy Used	Annual	Million kcal	0	**0.00**	0	
A10.4.2	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A10.5	**Sinter+Coke Oven+MBF+Others Aux**						
A10.5.1	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	
A10.5.2	Total Thermal Energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	
A10.5.3	Total Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	
A10.5.4	**Thermal SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.2*10^6/A10.5.1**	**kcal/thm**	**0.00**	**0.00**	**0.00**	
A10.5.5	**Electrical SEC up to MBF (Per Tonne of Hot Metal)**	**A10.5.3*10^5/A10.5.1**	**kWh/thm**	**0.00**	**0.00**	**0.00**	
A11	**Pig Iron**						
A11.1	Installed Production Capacity	Annual Installed Capacity	Tonne	**0.00**	**0.00**	**0.00**	
A11.2	Production	Annual	Tonne	**0.00**	**0.00**	**0.00**	
A11.3	Opening Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	
A11.4	Closing Stock	Annual	Tonne	**0.00**	**0.00**	**0.00**	
A11.5	Thermal energy Used	Annual	Million kcal	**0.00**	**0.00**	**0.00**	
A11.6	Electrical Energy Used	Annual	Lakh kwh	**0.00**	**0.00**	**0.00**	
A11.7	Pig Iron Import	Annual	Tonne	**0.00**	**0.00**	**0.00**	
A11.8	Pig Iron Export	Annual	Tonne	**0.00**	**0.00**	**0.00**	
A11.9	**Thermal SEC**	**A11.5*10^6/A11.2**	**kcal/tp**	**0.00**	**0.00**	**0.00**	
A11.10	**Electrical SEC**	**A11.6*10^5/A11.2**	**kWh/tp**	**0.00**	**0.00**	**0.00**	
A11.11	**Capacity Utilization**	**A11.2x100/A11.1**	**%**	**0.00**	**0.00**	**0.00**	
A12	**Total Finisied Product (Rolling Mill) [The higher production among the Rolling Mills 1-3 should be filled in the Rolling Mill-1 for making it as a major product]**						
A12.1	**Rolling Mill-1**						
A12.1.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A12.1.2	Production	Annual	Tonne	0	**0.00**	0	
A12.1.3	Name of Finish Products (Rolling Mills)						
A12.1.4	Opening Stock	Annual	Tonne	0	**0.00**	0	
A12.1.5	Closing Stock	Annual	Tonne	0	**0.00**	0	
A12.1.6	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A12.1.7	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A12.1.8	**Thermal SEC**	**A12.1.6*10^6/A12.1.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A12.1.9	**Electrical SEC**	**A12.1.7*10^5/A12.1.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A12.1.10	**Capacity Utilization**	**A12.1.2x100/A12.1.1**	**Tonne**	**0.00**	**0.00**	**0.00**	
A12.2	**Rolling Mill-2**						
A12.2.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A12.2.2	Production	Annual	Tonne	0	**0.00**	0	
A12.2.3	Name of Finish Products (Rolling Mills)						
A12.2.4	Opening Stock	Annual	Tonne	0	**0.00**	0	
A12.2.5	Closing Stock	Annual	Tonne	0	**0.00**	0	
A12.2.6	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A12.2.7	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A12.2.8	**Thermal SEC**	**A12.2.6*10^6/A12.2.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A12.2.9	**Electrical SEC**	**A12.2.7*10^5/A12.2.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A12.2.10	**Capacity Utilization**	**A12.2.2x100/A12.2.1**	**Tonne**	**0.00**	**0.00**	**0.00**	
A12.3	**Rolling Mill-3**						
A12.3.1	Installed Production Capacity	Annual Installed Capacity	Tonne	0	**0.00**	0	
A12.3.2	Production	Annual	Tonne	0	**0.00**	0	
A12.3.3	Name of Finish Products (Rolling Mills)						
A12.3.4	Opening Stock	Annual	Tonne	0	**0.00**	0	
A12.3.5	Closing Stock	Annual	Tonne	0	**0.00**	0	
A12.3.6	Thermal energy Used	Annual	Million kcal	0	**0.00**	0	
A12.3.7	Electrical Energy Used	Annual	Lakh kwh	0	**0.00**	0	
A12.3.8	**Thermal SEC**	**A12.3.6*10^6/A12.3.2**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A12.3.9	**Electrical SEC**	**A12.3.7*10^5/A12.3.2**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A12.3.10	**Capacity Utilization**	**A12.3.2x100/A12.3.1**	**Tonne**	**0.00**	**0.00**	**0.00**	
Note: Additional Mill data sheets are to be attached in the excel form as per above data entry format							
A13.1	**Toatal Rolling Mill Production**	**A12.1.2+A12.2.2+A12.3.2**	**Tonne**	**0.00**	**0.00**	**0.00**	
A13.2	**Thermal SEC**	**(A12.1.8*A12.1.2+A12.2.8*A12.2.2+A12.3.8*A12.3.2)/(A12.1.2+A12.2.2+A12.3.2)**	**kcal/Tonne**	**0.00**	**0.00**	**0.00**	
A13.3	**Electrical SEC**	**(A12.1.9*A12.1.2+A12.2.9*A12.2.2+A12.3.9*A12.3.2)/(A12.1.2+A12.2.2+A12.3.2)**	**kWh/Tonne**	**0.00**	**0.00**	**0.00**	
A14	**SMS Charge**						
A14.1	Qty. of scrap charged in SMS	Annual	Tonne	0	0.00		

A14.2	Qty of DRI (Including Ferro Alloys)charged in SMS	Annual	Tonne	0	0.00		
A14.3	Qty of Pig Iron Charged in SMS	Annual	Tonne	0	0.00		
A14.4	Total Charge in SMS	A14.1+A14.2+A14.3	Tonne	0.00	0.00	0.00	
A14.5	% of Scrap used in SMS	A14.1*100/A14.4	%	0.00	0.00	0.00	
A14.6	% of DRI used in SMS	A14.2*100/A14.4	%	0.00	0.00	0.00	
A14.7	% of Pig Iron used in SMS	A14.3*100/A14.4	%	0.00	0.00	0.00	
A15	**Kiln/BF/SAF**						
A15.1.1	Kiln-1/BF1 /SAF1 Production	Annual	Tonne	0	0.00	0	
A15.1.2	Kiln-1/BF1 /SAF1 Operating Thermal SEC	Annual	kcal/kg		0.00		
A15.1.3	Kiln-1/BF1 /SAF1 Operating Electrical SEC	Annual	kWh/t		0.00		
A15.1.4	Kiln-1/BF1 /SAF1 Running Hours	Annual	Hours	0	0.00	0	
A15.1.5	Kiln-1/BF1 /SAF1 Hot to Hot start	Annual	Hours	0	0.00	0	
A15.1.6	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Hours	0	0.00	0	
A15.1.7	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor	Annual	Nos	0	0.00	0	
A15.1.8	Kiln-1/BF1 /SAF1 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.1.9	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Hours	0	0.00	0	
A15.1.10	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors	Annual	Nos	0	0.00	0	
A15.1.11	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking pruction into account (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.1.12	Kiln-1/BF1 /SAF1 Cold to Hot start due to external factors taking production into account (Thermal Energy Consumption)	Annual	Million kcal	0	0.00	0	
	Kiln-2/BF2/SAF2						
A15.2.1	Kiln-2/BF2/SAF2 Production	Annual	Tonne	0	0.00	0	
A15.2.2	Kiln-2/BF2/SAF2 Operating Thermal SEC	Annual	kcal/kg		0.00		
A15.2.3	Kiln-2/BF2/SAF2 Operating Electrical SEC	Annual	kWh/t		0.00		
A15.2.4	Kiln-2/BF2/SAF2 Running Hours	Annual	Hours	0	0.00	0	
A15.2.5	Kiln-2/BF2/SAF2Hot to Hot start	Annual	Hours	0	0.00	0	
A15.2.6	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Hours	0	0.00	0	
A15.2.7	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor	Annual	Nos	0	0.00	0	
A15.2.8	Kiln-2/BF2/SAF2 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.2.9	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Hours	0	0.00	0	
A15.2.10	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors	Annual	Nos	0	0.00	0	
A15.2.11	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.2.12	Kiln-2/BF2/SAF2 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0.00	0	
	Kiln-3/BF3/SAF3						
A15.3.1	Kiln-3/BF3 Production	Annual	Tonne	0	0.00	0	
A15.3.2	Kiln-3/BF3/SAF3 Operating Thermal SEC	Annual	kcal/kg		0.00		
A15.3.3	Kiln-3/BF3 Operating Electrical SEC	Annual	kWh/t		0.00		
A15.3.4	Kiln-3/BF3 Running Hours	Annual	Hours	0	0.00	0	
A15.3.5	Kiln-3/BF3 Hot to Hot start	Annual	Hours	0	0.00	0	
A15.3.6	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Hours	0	0.00	0	
A15.3.7	Kiln-3/BF3 Hot to Cold stop due to external factor	Annual	Nos	0	0.00	0	
A15.3.8	Kiln-3/BF3 Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.3.9	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Hours	0	0.00	0	
A15.3.10	Kiln-3/BF3 Cold to Hot start due to external factors	Annual	Nos	0	0.00	0	
A15.3.11	Kiln-3/BF3 Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.3.12	Kiln-3 Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0.00	0	
	Kiln-4,5,6...../BF4,5,6.../SAF4,5,6...						
A15.4.1	Kiln Production	Annual	Tonne	0	0.00	0	
A15.4.2	Kiln Operating Thermal SEC	Annual	kcal/kg		0.00		
A15.4.3	Kiln Operating Electrical SEC	Annual	kWh/t		0.00		
A15.4.4	Kiln Running Hours	Annual	Hours	0	0.00	0	
A15.4.5	Kiln Hot to Hot start	Annual	Hours	0	0.00	0	
A15.4.6	Kiln Hot to Cold stop due to external factor	Annual	Hours	0	0.00	0	
A15.4.7	Kiln Hot to Cold stop due to external factor	Annual	Nos	0	0.00	0	
A15.4.8	Kiln Hot to Cold stop due to external factor (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.4.9	KilncCold to Hot start due to external factors	Annual	Hours	0	0.00	0	
A15.4.10	Kiln Cold to Hot start due to external factors	Annual	Nos	0	0.00	0	
A15.4.11	Kiln Cold to Hot start due to external factors (Electrical Energy Consumption)	Annual	Lakh kWh	0	0.00	0	
A15.4.12	Kiln Cold to Hot start due to external factors (Thermal Energy Consumption)	Annual	Million kcal	0	0.00	0	
A16	Note: DCs to provide separate Excel sheet in the Kiln format as specified above If no of kiln exceeds, for additional nos of KIln installed						
B	Boiler Details						
B1	From Waste Heat (SI/CO/BF/Others) used for Power generation/Steam Generation						
B1.1	Boiler 1	From Waste Heat (SI/CO/BF/Others) used for Power generation					
(i)	Type						
(ii)	Rated Capacity		TPH		0.00		
(iii)	Steam Generation		TPH		0.00		
(iv)	Running Hours	Annual	Hours	0	0.00	0	
(v)	Type of Waste Heat	Annual					
(vi)	Designed Pressure	Annual	kg/cm2		0.00		
(vii)	Design Temperature	Annual	^{0}C		0.00		
(viii)	Design Efficiency	Annual	%		0.00		
B1.2	Boiler 2	From Waste Heat (SI/CO/BF/Others) used for Power generation					
(i)	Type						
(ii)	Rated Capacity		TPH		0.00		
(iii)	Steam Generation		TPH		0.00		
(iv)	Running Hours	Annual	Hours	0	0.00	0	
(v)	Type of Waste Heat	Annual					
(vi)	Designed Pressure	Annual	kg/cm2		0.00		
(vii)	Design Temperature	Annual	^{0}C		0.00		
(viii)	Design Efficiency	Annual	%		0.00		
B1.3	Boiler 3	From Waste Heat (SI/CO/BF/Others) used for Power generation					
(i)	Type						
(ii)	Rated Capacity		TPH		0.00		
(iii)	Steam Generation		TPH		0.00		
(iv)	Running Hours	Annual	Hours	0	0.00	0	
(v)	Type of Waste Heat	Annual					
(vi)	Designed Pressure	Annual	kg/cm2		0.00		
(vii)	Design Temperature	Annual	^{0}C		0.00		
(viii)	Design Efficiency	Annual	%		0.00		

B1.4	Boiler 4	From Waste Heat (SI/CO/BF/Others) used for Power generation					
(i)	Type						
(ii)	Rated Capacity		TPH	3626	0.00		
(iii)	Steam Generation		TPH		0.00		
(iv)	Running Hours	Annual	Hours	0	0.00	0	
(v)	Type of Waste Heat	Annual					
(vi)	Designed Pressure	Annual	kg/cm2		0.00		
(vii)	Design Temperature	Annual	^{0}C		0.00		
(viii)	Design Efficiency	Annual	%		0.00		
B1.5	Boiler 5	From Waste Heat (SI/CO/BF/Others) used for Power generation					
(i)	Type						
(ii)	Rated Capacity		TPH		0.00		
(iii)	Steam Generation		TPH		0.00		
(iv)	Running Hours	Annual	Hours	0	0.00	0	
(v)	Type of Waste Heat	Annual					
(vi)	Designed Pressure	Annual	kg/cm2		0.00		
(vii)	Design Temperature	Annual	^{0}C		0.00		
(viii)	Design Efficiency	Annual	%		0.00		
B2	Steam Generation Boiler used for Power generation						
B2.1	Boiler 6	For Steam Generation Boiler					
(i)	Type						
(ii)	Rated Capacity		TPH	54.0	54.00	54.0	As per baseline
(iii)	Total Steam Generation	Annual	Tonne	249407.8	249407.80	135510.0	CPP report
(iv)	Running hours	Annual	Hrs	4876.5	4876.50	2654.9	CPP run hour data sheet
(v)	Coal Consumption	Annual	Tonne	37335.3	37335.30	18310.3	Plant Accout MIS
(vi)	GCV of Coal	Annual Average	kCal/kg	5672.0	5672.00	5336.0	Wighted avg of GCV; basis- CPP fuel external lab analysis
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	445.7	445.70	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg	2500.0	2500.00	0.0	
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg		0.00	0.0	
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg		0.00	0.0	
(xiii)	Feed water Temperature	Annual	^{0}C	115.0	115.00	112.0	As per plant information
(xiv)	Operating Efficiency	Annual Average	%	82.0	81.95	80.7	As per plant information
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2	67.0	67.00	67.0	As per plant information
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	497.6	497.60	498.0	As per plant information
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg	814.4	814.40	814.5	As per plant information
(xviii)	Design Efficiency		%	83.0	83.00	83.0	As per baseline
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**51.14**	**51.14**	**51.04**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**853.54**	**853.54**	**721.01**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.99**	**0.99**	**1.00**	
B2.2	Boiler 7	For Steam Generation Boiler					
(i)	Type						
(ii)	Rated Capacity		TPH	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg		0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg		0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg		0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg		0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%		0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2		0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg		0.00		
(xviii)	Design Efficiency		%		0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	
B2.3	Boiler 8	For Steam Generation Boiler					
(i)	Type						
(ii)	Rated Capacity		TPH	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg		0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg		0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg		0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg		0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%		0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2		0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg		0.00		
(xviii)	Design Efficiency		%		0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	
B2.4	Boiler 9	For Steam Generation Boiler					
(i)	Type						
(ii)	Rated Capacity		TPH	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg		0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg		0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg		0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg		0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%		0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2		0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.00		
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg		0.00		
(xviii)	Design Efficiency		%		0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	

(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	
B2.5	**Boiler 10**	**For Steam Generation Boiler**					
(i)	Type						
(ii)	Rated Capacity		TPH	0.0	0.00	0.0	
(iii)	Total Steam Generation	Annual	Tonne	0.0	0.00	0.0	
(iv)	Running hours	Annual	Hrs	0.0	0.00	0.0	
(v)	Coal Consumption	Annual	Tonne	0.0	0.00	0.0	
(vi)	GCV of Coal	Annual Average	kCal/kg		0.00		
(vii)	Type of Fuel - 2 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(viii)	GCV of any Fuel -2	Annual Average	kCal/kg		0.00		
(ix)	Type of Fuel - 3 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(x)	GCV of any Fuel -3	Annual Average	kCal/kg		0.00		
(xi)	Type of Fuel - 4 Name : Consumption	Annual	Tonne	0.0	0.00	0.0	
(xii)	GCV of any Fuel -4	Annual Average	kCal/kg		0.00		
(xiii)	Feed water Temperature	Annual	^{0}C	0.0	0.00	0.0	
(xiv)	Operating Efficiency	Annual Average	%		0.00		
(xv)	SH Steam outlet Pressure (Operating)	Annual Average	kg/cm2		0.00		
(xvi)	SH Steam outlet Temperature (Operating)	Annual Average	^{0}C	0.0	0.00	0.0	
(xvii)	SH Steam Enthalpy (Operating)	Annual Average	kCal/kg		0.00		
(xviii)	Design Efficiency		%		0.00		
(xix)	**Operating Capacity**	**(iii)/(iv)**	**TPH**	**0.00**	**0.00**	**0.00**	
(xx)	**Specific Energy Consumption**	**[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]/(iii)**	**kCal/kg of Steam**	**0.00**	**0.00**	**0.00**	
(xxi)	**Percentage of Coal Energy Used in steam Generation**	**[(v)x(vi)]/[(v)x(vi)+(vii)x(viii)+(ix)x(x)+(xi)x(xii)]**	**%**	**0.00**	**0.00**	**0.00**	
B3	**Weighted Average Boiler 6-10**	**For Steam Generation Boiler**					
B3.1	**Total Steam Generation (Process Boiler)**	**B2.5(iii)+B2.4(iii)+B2.3(iii)+B2.2(iii)+B2.1(iii)**	**Tonnes**	**249407.80**	**249407.80**	**135510.00**	
B3.2	**Weighted Operating Efficiency of Boiler (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**81.95**	**81.95**	**80.70**	
B3.3	**Total Operating Capacity of Boilers (Process Boiler)**	**B2.5(xviii)+B2.4(xviii)+B2.3(xviii)+B2.2(xviii)+B2.1(xviii)**	**TPH**	**51.14**	**51.14**	**51.04**	
B3.4	**Weighted Specific Energy Cosumption (Process Boiler)**	**Weighted average of all 5 boilers**	**kCal/kg of Steam**	**853.54**	**853.54**	**721.01**	
B3.5	**Weighted Percentage of Coal Energy Used in steam Generation (Process Boiler)**	**Weighted average of all 5 boilers**	**%**	**0.99**	**0.99**	**1.00**	
B4	**Note: DCs to provide separate Excel sheet in the Boiler format as specified above If no of boiler exceeds for additional nos of boliers installed for Cogen/Steam**						
C	**Electricity**						
C.1	**Electricity from Grid / Other (Including Colony and Others)**						
(i)	Purchased Electricity from Grid (SEB)	Annual	Lakh kWh	613.059	613.06	868.73605	Electrical cons report
(ii)	Renawble Energy (through Wheeling)	Annual	Lakh kWh	0	0.00	0	
(iii)	Electricity from CPP located outside from plant boundary (Through Wheeling)	Annual	Lakh kWh	0	0.00	0	
(iv)	Renewable purchase Obligation of Plant (RPO) (Solar & Non-Solar)	Annual	%	0	0.00	0	
(v)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	Lakh kWh	0	0.00	0	
(vi)	Renewable Purchase obligation of plant (RPO) (Solar & Non-Solar)	Annual	MW	0	0.00	0	
(vii)	Renewable Energy generator as approved by MNRE	Annual	MW	0	0.00	0	
(viii)	Quantum of Renewable Energy Certificates (REC) obtained as a Renewal Energy Generator (Solar & Non-Solar)	Annual	MWh	700	700.00	0	
(ix)	Quantum of Energy sold under preferential tariff	Annual	MWh	0	0.00	0	
(x)	Plant Connected Load		kW	25557	25557.00	25557	as per baseline
(xi)	Contract demand with utility		kVA	0	0.00	0	
(xii)	Notified Baseline SEC		TOE/Tonne	2.332	2.33		
(xiii)	Notified Target SEC		TOE/Tonne	2.1928	2.19		
(xiv)	Saving Target in TOE/ton of product as per PAT scheme Notification		TOE/Tonne	0.14	0.14		
(xv)	Equivalent Major Product Output in tonnes as per PAT scheme Notification		Tonnes	14835	14835.00		
(xvi)	**Total Electricity Purchased from Grid/ others**	**C.1(i)+C.1(ii)+C.1(iii)**	**Lakh kWh**	**613.06**	**613.06**	**868.74**	
(xvii)	**Total Electricity Purchased from grid/ Other with out colony/construction power etc**	**IF((C.1(i)+C.1(ii)+C.1(iii))>C.5,((C.1(i)+C.1(ii)+C.1(iii))-C.5),0)**		**613.06**	**613.06**	**867.11**	
(xviii)	**Equivalent Thermal Energy of Purchased Electricity from Grid / Other without colony/construction power etc**	**C.1(xv)x860/10**	**Million kcal**	**52722.89**	**52722.89**	**74571.42**	
C.2	**Own Generation**						
C.2.1	**Through DG sets**						
(i)	Grid Connected		***Yes/No***	YES	YES	NO	
(ii)	Install Capacity	Annual	MW	1.44	1.44	1.44	as per baseline
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0.88	0.88	0.1191	elctricity generation report
(iv)	Designed Heat Rate	Annual	kcal/kWh		0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%		0.00		
(vi)	Running Hours	Annual	Hrs	211.23	211.23	63.65	elctricity generation report
C.2.2	**Captive Power Plant CPP (For other than SID Plant)**						
(i)	Grid Connected		***Yes/No***	YES	YES	NO	
(ii)	Installed Capacity (C)	Annual	MW	13.8	13.80	13.8	as per CTO
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	641.173	641.17	347.016	elctricity generation report
(iv)	Auxiliary Power Consumption (APC)	Annual	%	9.89	9.89	9.05315605	elctricity generation report
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh		0.00	3250	as per baseline
(vi)	Plant Load Factor (PLF)	Annual	%	95.2769642	95.28	94.72	
(vii)	Running Hours	Annual	Hours	4876.5	4876.50	2654.88	CPP run hour data sheet
Note	**Please provide information for all CPP in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**						
C.2.3	**Through Gas turbine**						
(i)	Grid Connected		***Yes/No***	YES	YES	NO	
(ii)	Installed Capacity (C)	Annual	Lakh kWh	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0.00	0	
(iv)	Auxiliary Power Consumption (APC)	Annual	%		0.00		
(v)	Design Heat Rate (DHR)	Annual	kcal/ kWh		0.00		
(vi)	Plant Load Factor (PLF)	Annual	%		0.00		
(vii)	Running Hours	Annual	Hours	0	0.00	0	
Note	**Please provide information for all GT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**						
C.2.4	**Through Gas Generator (GG) sets**						
(i)	Grid Connected		***Yes/No***	YES	YES	NO	
(ii)	Installed Capacity (C)	Annual	MW	0	0.00	0	
(iii)	Annual generation	Gross Unit Generation	Lakh kWh	0	0.00	0	
(iv)	Designed Heat Rate	Annual	kcal/kWh		0.00		
(v)	Auxiliary Power Consumption (APC)	Annual	%		0.00		
(vi)	Running Hours	Annual	Hrs	0	0.00	0	
Note	**Please provide information for all GG in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**						
C.2.5	**Through Coal/Biomass based Boiler and WHRB Steam turbine**						
(i)	Grid Connected		***Yes/No***	YES	YES	NO	
(ii)	Power Plant Capacity (C)	Annual	MW	0	0.00		

(iii)	Annual Grosss Unit Generation	Annual	Lakh kWh	0	0.00	0	
(iv)	Auxiliary Power Consumption (APC)	Annual	%		0.00		
(v)	Design Gross Heat Rate	Annual	kcal/ kWh	3628	0.00		
(vi)	Plant Load Factor (PLF)	Annual	%		0.00		471 3619
(vii)	Running Hours	Annual	Hrs	0	0.00	0	
Note	**Please provide information for all WHRBT in Weighted Average terms w.r.t Gorss Unit generation. Except DHR (1,2...)=DHR1 x C1+DHR2 x C2+..../(C1+C2....)**						
C.2.6	**Through Co-Generation (Extraction Cum Condensing)**						
(i)	Grid Conneted		*Yes/No*	YES	YES	NO	
(ii)	Install Capacity	*Annual*	MW	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%		0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh		0.00		
(vi)	Running Hours	Annual	Hrs	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**				
(vii)	Input Steam Enthalpy	Annual	kcal/kg		0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2		0.00		
(ix)	Input Steam Temperature	Annual	°C		0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**				
(xi)	Steam Pressure	Annual	Kg/cm2		0.00		
(xii)	Steam Temperature	Annual	°C		0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg		0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**				
(xv)	Steam Pressure	Annual	Kg/cm2		0.00		
(xvi)	Steam Temperature	Annual	°C		0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg		0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6(xiv)*C.2.6(xii))+(C.2.6(xvii)*C.2.6(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6(x)*C.2.6(vii))/1000)-C.2.6(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6(xx)*1000/(C.2.6(vii)*C.2.6(x))**	**%**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction Cum Condensing)**	**(C.2.6(xxi)/C.2.6(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	
C.2.6.1	**Through Co-Generation (Extraction/Back Pressure)**						
(i)	Grid Conneted		*Yes/No*	YES	YES	NO	
(ii)	Install Capacity	*Annual*	MW	0	0.00	0	
(iii)	Annual Gross Unit generation	Annual	Lakh kWh	0	0.00	0	
(iv)	Auxiliary Power Consumption	Annual	%		0.00		
(v)	Design Heat Rate	Annual	kcal/ kWh		0.00		
(vi)	Running Hours	Annual	Hrs	0	0.00	0	
	Steam Input	**Annual**	**Tonnes**				
(vii)	Input Steam Enthalpy	Annual	kcal/kg		0.00		
(viii)	Input Steam Pressure	Annual	Kg/cm2		0.00		
(ix)	Input Steam Temperature	Annual	°C		0.00		
(x)	Input Steam Flow rate	Annual	Tonnes	0	0.00	0	
	Steam Extraction 1	**Annual**	**Tonnes**				
(xi)	Steam Pressure	Annual	Kg/cm2		0.00		
(xii)	Steam Temperature	Annual	°C		0.00		
(xiii)	Steam Enthalpy	Annual	Kcal/kg		0.00		
(xiv)	Mass Flow Rate	Annual	Tonnes	0	0.00	0	
	Steam Extraction 2	**Annual**	**Tonnes**				
(xv)	Steam Pressure	Annual	Kg/cm2		0.00		
(xvi)	Steam Temperature	Annual	°C		0.00		
(xvii)	Steam Enthalpy	Annual	Kcal/kg		0.00		
(xviii)	Mass Flow Rate	Annual	Tonnes	0	0.00	0	
(xx)	**Thermal energy used in process**	**((C.2.6.1(xiv)*C.2.6.1(xiii))+(C.2.6.1(xvii)*C.2.6.1(xviii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xxi)	**Thermal energy used in Power**	**(C.2.6.1(x)*C.2.6.1(vii))/1000-C.2.6.1(xx)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xxii)	**% of thermal energy in Process**	**C.2.6.1(xx)*1000/(C.2.6.1(vii)*C.2.6.1(x))**	**%**	**0.00**	**0.00**	**0.00**	
(xxiii)	**Heat Rate of Co-Gen (Extraction /Back Pressure)**	**(C.2.6.1(xxi)/C.2.6.1(iii))/10**	**kcal/kwh**	**0.00**	**0.00**	**0.00**	
(xxiv)	**Total % of thermal energy in Process from Cogen**	**(C.2.5(xx)+C.2.6(xx))/(C.2.6(xxi)+C.2.5(xxi)+C.2.5(xx)+C.2.6(xx))**	**Factor**	**0.00**	**0.00**	**0.00**	
C.3	**Total Own Generation of Electricity**	**C.2.1.(iii)+C.2.2.(iii)+C.2.3.(iii)+C.2.4.(iii)+C.2.5.(iii)+C.2.6.(iii)**	**Lakh kWh**	**642.05**	**642.05**	**347.14**	
C.4	**Electricity Supplied to Grid/others**	**Annual**	**Lakh kWh**	**0**	**0.00**		
C.5	**Electricity Supplied to Colony/others**	**Annual**	**Lakh kWh**	**0.0021168**	**0.00**	**1.6265**	**as per electricity consumption record**
C.6	**Electricity Supplied to Grid/Colony/Others from WHRB S**	**C.4+(IF(C.5>C.1(xiv),(C.5-C.1(xiv)),0)**	**Lakh kWh**	**0.00**	**0.00**	**0.00**	
C.7	**Equivalent Thermal Energy supplied to grid/others**	**C.4*2717/10**	**Million kcal**	**0.00**	**0.00**	**0.00**	
C.8	**Total Electricity Consumed in Process and Auxilliaries**	**IF(C.5>C.1(xiv),((C.3-C.4)-(C.5-C.1(xiv)),(C.1(xv)+C.3-C.4))**	**Lakh kWh**	**1255.11**	**1255.11**	**1214.24**	
D	**Solid Fuel Consumption**						
D.1	**Non coking Coal (Indian)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne	5049	5049.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	5672	5672.00	5336	Wighted avg of GCV; basis- CPP fuel external lab analysis
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	4425	4425.00	4332	Wighted avg of GCV; basis- plant fuel mix external lab analysis
(iv)	Quantity purchased	Annual	Tonne		#DIV/0!	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%	10.5	10.50		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	37781.018	37781.02	18310.26	as per coal consumption data sheet
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	17802.29	17802.29	16550.774	as per coal consumption data sheet
(x)	**Total Quantity Consumed**	**D.1.(vi)+D.1.(viii)+D.1.(ix)**	**Tonne**	**55583.31**	**55583.31**	**34861.03**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.1.(ii)*D.1.(vi))/1000**	**Million kcal**	**214293.93**	**214293.93**	**97703.55**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.1.(ii)*D.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.1.(ii)*D.1.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**(D.1.(iii)*D.1.(ix))/1000**	**Million kcal**	**78775.13**	**78775.13**	**71697.95**	
D.2	**Non Coking Coal (Imported)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.2.(vi)+D.2.(viii)+D.2.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**(D.2.(ii)*D.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**(D.2.(ii)*D.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**(D.2.(ii)*D.2.(viii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	

(xiv)	**Thermal Energy Used in Process**	**(D.2.(iii)*D.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.3	**Coking Coal (Indian)**			3629			3620
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		472
(iii)	Quantity purchased	Annual	Tonne	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(v)	Quantity used for process	Annual	Tonne	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.3.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.3.(ii)*D.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.4	**Coking Coal (Imported)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(v)	Quantity used for process	Annual	Tonne	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.4.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.4.(ii)*D.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.5	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Indian)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(v)	Quantity used for process	Annual	Tonne	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.5.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.5.(ii)*D.5.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.6	**Met Coke/Coke Breeze /Nut coke/Lump Coke (Imported)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Quantity purchased	Annual	Tonne	0	0.00	0	
(iv)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(v)	Quantity used for process	Annual	Tonne	0	0.00	0	
(vi)	**Total Quantity Consumed**	**D.6.(v)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(vii)	**Thermal Energy Used in Process**	**(D.6.(ii)*D.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.7	**Coal Fines**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0.00	0	
(xi)	**Total Quantity Consumed**	**7.(vii)+D.7.(viii)+D.7.(ix)+D.7.**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.7.(ii)*D.7.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.7.(ii)*D.7.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.7.(ii)*D.7.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.7.(iii)*D.7.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.8	**Coal Rejects/Slurry**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0.00	0	
(x)	**Total Quantity Consumed**	**8.(vii)+D.8.(viii)+D.8.(ix)+D.8.**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.8.(ii)*D.8.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.8.(ii)*D.8.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.8.(ii)*D.8.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.8.(iii)*D.8.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.9	**Dolachar**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg	0.00	0.00	0.00	
(iv)	Quantity purchased	Annual	Tonne	0.00	0.00	0.00	
(v)	Quantity produced inhouse	Annual	Tonne	0.00	0.00	0.00	
(vi)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(vii)	Quantity used for power generation (CPP)	Annual	Tonne	0	0.00	0	
(viii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(x)	Quantity used for process	Annual	Tonne	0	0.00	0	
(xi)	**Total Quantity Consumed**	**9.(vii)+D.9.(viii)+D.9.(ix)+D.9.**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**D.9.(ii)*D.9.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.9.(ii)*D.9.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**D.9.(ii)*D.9.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**D.9.(iii)*D.9.(x)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.10	**Bio mass or Other purchased Renewable solid fuels (pl. specify) baggase, rice husk, etc.**	**Thermal Energy Input through Biomass not to be taken into account if used in Process**					
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iv)	Quantity purchased	Annual	Tonne	0	0.00	0	
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0.00	0	
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0.00	0	
(x)	**Total Quantity Consumed**	**.(vi)+D.10.(vii)+D.10.(viii)+D.1**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.10.(ii)*D.10.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (WHRB)**	**D.10.(ii)*D.10.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.10.(ii)*D.10.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**D.10.(iii)*D.10.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.11	**Solid Waste (pl. specify and refer CPCB guidelines) rubber tyres chips, Municipal Solid waste etc.**	**Thermal Energy Input through solid waste, mentioned in CPCB guidelines, not to be taken into account if used in Process**					
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		

(ii)	Average Gross calorific value (Power generation)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iii)	Average Gross calorific value (Process)	Annual (As Fired Basis)	kcal/ kg		0.00		
(iv)	Quantity purchased	Annual	Tonne	3630	0.00	0	3621
(v)	Average Moisture in Fuel	Annual(As Received Basis)	%		0.00		
(vi)	Quantity used for power generation (CPP)	Annual	Tonne	0	0.00	0	473
(vii)	Quantity used for power generation (WHRB)	Annual	Tonne	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	Tonne	0	0.00	0	
(ix)	Quantity used for process	Annual	Tonne	0	0.00	0	
(x)	**Total Quantity Consumed**	**D.11.(vi)+D.11.(vii)+D.11.(viii)+D.11.(ix)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (CPP)**	**D.11.(ii)*D.11.(vi)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (WHRB)**	**D.11.(ii)*D.11.(vii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (Cogen)**	**D.11.(ii)*D.11.(viii)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**D.11.(iii)*D.11.(ix)/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.12	**Total Solid Energy Used in Power Generation (CPP)**	**IF(OR(C.2.2(i)="yes"),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi),D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)))**	**Million kcal**	**214293.93**	**214293.93**	**97703.55**	
D.12.1	**Total Solid Energy Used in Power Generation (CPP) for HR**	**D.1(xi)+D.2(xi)+D.7(xi)+D.8(xi)+D.10(xi)+D.11(xi)**	**Million kcal**	**214293.93**	**214293.93**	**97703.55**	
D.13	**Total Solid Energy Used in Power Generation (WHRB)**	**IF(OR(C.2.5(i)="yes"),D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)+D.10.(xiii)+D.11.(xiii),D.1.(xiii)+D.2.(xiii)+D.7(xiii)+D.8.(xiii))**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.13.1	**Total Solid Energy Used in Power Generation (WHRB) for HR**	**,D.1.(xii)+D.2.(xii)+D.7(xiii)+D.8.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.14	**Total Solid Energy Used in Power Generation (Cogen)**	**If(Or(C.2.6(i),C.2.6.1(i)="yes"),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)+D.8(xii)*(1-C.2.6.1(xxiii)+D.9(xii)*(1-c.2.6.1(xxiii)),D.1(xiii)+D.2(xiii)+D.5(xiv)+D.6(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
D.15	**Total Solid Energy Used in Process**	**D.1.(xiv)+D.2.(vxiv)+D.3.(vii)+D.4.(vii)+D.5(xv)+D.6(xiv)**	**Million kcal**	**78775.13**	**78775.13**	**71697.95**	
E	**Liquid Fuel Consumption**						
E.1	**Furnace Oil**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg		**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr		**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	**0.00**		
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	**0.00**		
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0.00		
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	**0.00**		
(ix)	Quantity used for process	Annual	kilo Litre	0	**0.00**	0	
(x)	**Total F. Oil Consumption as fuel**	**(E.1.(v)+E.1.(vi)+E.1.(vii)+E.1.(viii)+E.1.(ix))*E.1.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.1.(ii)*E.1.(iv)*E.1.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.1.(ii)*E.1.(iv)*E.1.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.1.(ii)*E.1.(iv)*E.1.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**E.1.(ii)*E.1.(iv)*E.1.(viii))/100**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.1.(ii)*E.1.(iv)*E.1.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.2	**Light Sulphur Heavy Stock (LSHS)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg		**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr		**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	**0.00**	0	
(x)	**Total LSHS Consumption as fuel**	**(E.2.(v)+E.2.(vi)+E.2.(vii)+E.2.(viii)+E.2.(ix))*E.2.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.2.(ii)*E.2.(iv)*E.2.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.2.(ii)*E.2.(iv)*E.2.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**E.2.(ii)*E.2.(iv)*E.2.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**E.2.(ii)*E.2.(iv)*E.2.(viii))/100**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.2.(ii)*E.2.(iv)*E.2.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.3	**High Sulphur Heavy Stock (HSHS)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg		**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr		**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	**0.00**	0	
(x)	**Total HSHS Consumption as fuel**	**(E.3.(v)+E.3.(vi)+E.3.(vii)+E.3.(viii)+E.3.(ix))*E.3.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.3.(ii)*E.3.(iv)*E.3.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.3.(ii)*E.3.(iv)*E.3.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**E.3.(ii)*E.3.(iv)*E.3.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**E.3.(ii)*E.3.(iv)*E.3.(viii))/100**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.3.(ii)*E.3.(iv)*E.3.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.4	**Light Diesel Oil (LDO)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg		**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr		**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	**0.00**	0	
(x)	**Total LDO Consumption as fuel**	**(E.4.(v)+E.4.(vi)+E.4.(vii)+E.4.(viii)+E.4.(ix))*E.4.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.4.(ii)*E.4.(iv)*E.4.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.4.(ii)*E.4.(iv)*E.4.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**E.4.(ii)*E.4.(iv)*E.4.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**E.4.(ii)*E.4.(iv)*E.4.(viii))/100**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Process**	**(E.4.(ii)*E.4.(iv)*E.4.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.5	**High Speed Diesel (HSD)**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg	10800	**10800.00**	11840	MoP Standard data taken into consideration since Fuel Quality test report not available with plant
(iii)	Quantity purchased	Annual	kilo Litre	0	**0.00**	0	

(iv)	Average Density	Annual	kg/ltr	0.8263	**0.83**	0.8263	MoP Standard data taken into consideration since Fuel Quality test report not available with plant
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	16.2544	**17.26**	3.8622	Power report
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	**0.00**	0	
(vii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	**0.00**	0	
(viii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0.00	0	
(ix)	Quantity used for material handling / Transportation (Raw material handling , Loco, etc)	Annual	kilo Litre	0	**0.00**	0	
(x)	Quantity used for process heating	Annual	kilo Litre	0	**0.00**		
(xi)	**Total HSD Consumption as fuel**	**(E.5.(v)+E.5.(vi)+E.5.(vii)+E.5.(viii)+E.5.(ix)+E.5.(x))*E.5.(iv)**	**Tonne**	**14.26**	**14.26**	**3.19**	
(xii)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.5.(ii)*E.5.(iv)*E.5.(v))/1000**	**Million kcal**	**154.00**	**154.00**	**37.79**	
(xiii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.5.(ii)*E.5.(iv)*E.5.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.5.(ii)*E.5.(iv)*E.5.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xv)	**Thermal Energy Used in Power Generation (Transportation)**	**E.5.(ii)*E.5.(iv)*E.5.(viii))/100**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xvi)	**Thermal Energy Used in Process**	**(E.5.(ii)*E.5.(iv)*E.5.(x))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.6	**Liquid Waste (pl. specify and refer CPCB guidelines)**	**Thermal Energy Input through Liquid waste, mentioned in CPCB guidelines, not to be taken**					
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		**0.00**		
(ii)	Gross calorific value	Annual	kcal/ kg		**0.00**		
(iii)	Quantity purchased	Annual	kilo Litre	0	**0.00**	0	
(iv)	Average Density	Annual	kg/ltr		**0.00**		
(v)	Quantity used for power generation (DG Set)	Annual	kilo Litre	0	**0.00**	0	
(vi)	Quantity used for power generation (CPP)	Annual	kilo Litre	0	**0.00**	0	
(vii)	Quantity used for power generation (WHRB)	Annual	kilo Litre	0	0.00	0	
(viii)	Quantity used for power generation (Cogen)	Annual	kilo Litre	0	**0.00**	0	
(ix)	Quantity used for process	Annual	kilo Litre	0	**0.00**	0	
(x)	**Total Liquid waste Consumption as fuel**	**(E.6.(v)+E.6.(vi)+E.6.(vii)+E.6.(viii)+E.6.(ix))*E.6.(iv)**	**Tonne**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (DG Set)**	**(E.6.(ii)*E.6.(iv)*E.6.(v))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Thermal Energy Used in Power Generation (CPP)**	**(E.6.(ii)*E.6.(iv)*E.6.(vi))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Power Generation (WHRB)**	**(E.6.(ii)*E.6.(iv)*E.6.(vii))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Power Generation (Cogen)**	**E.6.(ii)*E.6.(iv)*E.6.(viii))/100**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xvv)	**Thermal Energy Used in Process**	**(E.6.(ii)*E.6.(iv)*E.6.(ix))/1000**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.7	**Total Liquid Energy Used in Power Generation (DG Set)**	**IF(C.2.1(i)="yes",E.6(xii)+E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi),E.5(xii)+E.4(x)+E.3(x)+E.2(xi)+E.1(xi)**	**Million kcal**	**154.00**	**154.00**	**37.79**	
E.8	**Total Liquid Energy Used in Power Generation (CPP)**	**IF(C.2.2(i)="yes",E.6(xii)+E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii),E.5(xiii)+E.4(xi)+E.3(xi)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E8.1	**Total Liquid Energy Used in Power Generation (CPP) for HR**	**E.6(xii)+E.5(xii)+E.4(xi)+E3(xi)+E.2(xi)+E.1(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.9	**Thermal Energy Used in Power Generation (WHRB)**	**IF(C.2.3(i)="yes",E.6(xiii)+E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii),E.5(ix)+E.4(xii)+E.3(xii)+E.2(xiii)+E.1(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E9.1	**Thermal Energy Used in Power Generation (WHRB) for H**	**E.6(xiii)+E.5(xiii)+E.4(xii)+E3(xii)+E.2(xii)+E.1(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.10	**Thermal Energy Used in Power Generation (Cogen)**	**IF(OR(C.2.6(i),C.2.6.1(i)="yes"),(E.6(xiv)*(1-C.2.6.1(xxiv))+E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)),E.5.(xiv)+E.4.(xii)+E.3.(xii)+E.2.(xiii)+E.1.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
E.11	**Total Liquid Energy Used in Process**	**E.1.(xv)+E.2.(xv)+E.3.(xv)+E.4.(xv)+E.5.(xvi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F	**Gaseous Fuel**						
F.1	**Compressed Natural Gas CNG/PNG/LNG**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM		**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM		**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.1.(iv)+F.1.(v)+F.1.(vi)+F.1.(vii)+F.1.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.1.(ii)*F.1.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.1.(ii)*F.1.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.1.(ii)*F.1.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.1.(ii)*F.1.(vii)+F.1.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.2	**NG**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM		**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM		**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.2.(iv)+F.2.(v)+F.2.(vi)+F.2.(vii)+F.2.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.2.(ii)*F.2.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.2.(ii)*F.2.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.2.(ii)*F.2.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.2.(ii)*F.2.(vii)+F.2.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.3	**CBMG**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/SCM		**0.00**		
(ii)	Gross calorific value	Annual	kcal/SCM		**0.00**		
(iii)	Quantity purchased	Annual	Million SCM	0	**0.00**	0	
(iv)	Quantity used for power generation (GT)	Annual	Million SCM	0	**0.00**	0	
(v)	Quantity used for power generation (GG)	Annual	Million SCM	0	**0.00**	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million SCM	0	**0.00**	0	
(vii)	Quantity used for internal transportation	Annual	Million SCM	0	**0.00**	0	
(viii)	Quantity used for process heating	Annual	Million SCM	0	**0.00**	0	
(ix)	**Total Gas Consumption as fuel**	**F.3.(iv)+F.3.(v)+F.3.(vi)+F.3.(vii)+F.3.(viii)**	**Million SCM**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.3.(ii)*F.3.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.3.(ii)*F.3.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.3.(ii)*F.3.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.3.(ii)*F.3.(vii)+F.3.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.4	**LPG**						

3631

3622

474

(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Gross calorific value	Annual	kcal/kg		0.00		
(iii)	Quantity purchased	Annual	Million kg	3632	0.00	0	475 3623
(iv)	Quantity used for power generation (GT)	Annual	Million kg		0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0.00	0	
(ix)	**Total Gas Consumption as fuel**	**F.4.(iv)+F.4.(v)+F.4.(vi)+F.4.(vii)+F.4.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.4.(ii)*F.4.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.4.(ii)*F.4.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.4.(ii)*F.4.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.4.(ii)*F.4.(vii)+F.4.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.5	**Propane**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Gross calorific value	Annual	kcal/kg		0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0.00	0	
(ix)	Quantity used as Raw Material	Annual	Million kg	0	0.00	0	
(x)	**Total Gas Consumption as fuel**	**F.5.(iv)+F.5.(v)+F.5.(vi)+F.5.(vii)+F.5.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	
(xi)	**Thermal Energy Used in Power Generation (GT)**	**F.5.(ii)*F.5.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (GG)**	**F.5.(ii)*F.5.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Quantity used for power generation (Cogen)**	**F.5.(ii)*F.5.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiv)	**Thermal Energy Used in Process**	**F.5.(ii)*F.5.(vii)+F.5.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.6	**Naptha**						
(i)	Landed Cost of fuel (Last purchase)	Basic Cost+Taxes+Freight	Rs/Tonne		0.00		
(ii)	Gross calorific value	Annual	kcal/kg		0.00		
(iii)	Quantity purchased	Annual	Million kg	0	0.00	0	
(iv)	Quantity used for power generation (GT)	Annual	Million kg	0	0.00	0	
(v)	Quantity used for power generation (GG)	Annual	Million kg	0	0.00	0	
(vi)	Quantity used for power generation (Cogen)	Annual	Million kg	0	0.00	0	
(vii)	Quantity used for internal transportation	Annual	Million kg	0	0.00	0	
(viii)	Quantity used for process heating	Annual	Million kg	0	0.00	0	
(ix)	**Total Gas Consumption as fuel**	**F.6.(iv)+F.6.(v)+F.6.(vi)+F.6.(vii)+F.6.(viii)**	**Million kg**	**0.00**	**0.00**	**0.00**	
(x)	**Thermal Energy Used in Power Generation (GT)**	**F.6.(ii)*F.6.(iv)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xi)	**Quantity used for power generation (GG)**	**F.6.(ii)*F.6.(v)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xii)	**Quantity used for power generation (Cogen)**	**F.6.(ii)*F.6.(vi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(xiii)	**Thermal Energy Used in Process**	**F.6.(ii)*F.6.(vii)+F.6.(viii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.7	**Quantity used for power generation (GT)**	**F.1.(x)+F.2.(x)+F.3.(x)+F.4.(x)+F.5.(x)+F.6.(x)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.8	**Quantity used for power generation (GG)**	**F.1.(xi)+F.2.(xi)+F.3.(xi)+F.4.(xi)+F.5.(xi)+F.6.(xi)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.9	**Quantity used for power generation (Cogen)**	**F.1.(xii)+F.2.(xii)+F.3.(xii)+F.4.(xii)+F.5.(xii)+F.6.(xii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.10	**Total Gaseous Energy Used in Process**	**F.1.(xiii)+F.2.(xiii)+F.3.(xiii)+F.4.(xiii)+F.5.(xiii)+F.6.(xiii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.11	**Gas Import/Export (All type of Gaseous Fuel)**						
F.11.1	**Gas Import**						
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM		0.00		
(iii)	**Thermal Energy for Imported Gas**	**F.11.1 (i) x F.11.1 (ii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
F.11.2	**Gas Export**						
(i)	Gas Quantity (Weighted)	Annual	Million SCM	0	0.00		
(ii)	Weighted Average Gross Calorific Value	Annual	kcal/SCM		0.00		
(iii)	**Thermal Energy for Exported Gas**	**F.12.1 (i) x F.12.1 (ii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
(iv)	**Total thermal Energy for Gas (Import-Export)**	**F.11.1 (iii) - F.12.1 (iii)**	**Million kcal**	**0.00**	**0.00**	**0.00**	
G	**Total Thermal Energy**						
G.1	**Total Thermal Energy Used in Power Generation**	**F.7+F.8+F.9+E.7+E.8+E.9+E.10+D.10+D.11+D.12**	**Million kcal**	**214447.93**	**214447.93**	**97741.33**	
G.2	**Total Thermal Energy Used in Process**	**D.13+E.11+F.10**	**Million kcal**	**78775.13**	**78775.13**	**71697.95**	
G.3	**Total Thermal Energy Input through all Fuels**	**G.1+G.2+F.11.2(iv)**	**Million kcal**	**293223.06**	**293223.06**	**169439.29**	
H	**Gross Heat Rate**						
H.1	**Gross Heat Rate of DG Set**	**E.7x10/C.2.1.(iii)**	**kcal/kWh**	**1749.96**	**1749.96**	**3172.58**	
H.2	**Gross Heat Rate of CPP (Steam Turbine)**	**(D.7+E.8)x10/C.2.2.(ii)**	**kcal/kWh**	**3342.22**	**3342.22**	**2815.53**	
H.3	**Grross Heat Rate of WHRB Turbine**	**(E9.1+D.12)*10/C.2.5(iii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	
H.4	**Gross Heat Rate of CPP (Gas Turbine)**	**F.3x10/C.2.3.(ii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	
H.5	**Gross Heat Rate of Gas Generator (GG)**	**F.8*10/C.2.4(iii)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	
H.6	**Gross Heat Rate of CoGen (Condensing)**	**C.2.6(vii)*C.2.6(x)-C.2.6(xiii)*C.2.6(xiv)-C.2.6(xvii)*C.2.6(xviii)*1000/((B3.2/100)*C.2.6(iii)*10^5)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	
H.7	**Gross Heat Rate of CoGen (Extraction)**	**C.2.6.1(vii)*C.2.6.1(x)-C.2.6.1(xiii)*C.2.6.1(xiv)-C.2.6.1(Xvii)*C.2.6.1(xviii)*1000/((B3.2/100)*C.2.6.1(iii)*10^5)**	**kcal/kWh**	**0.00**	**0.00**	**0.00**	
H.6	**Weighted Average Heat Rate**	**H.1*C.2.1(iii)+H.2*C.2.2(iii)+H.3*C.2.5(iii)+H.4*C.2.3(iii)+H.5*C.2.4(iii)+H.6*C.2.6(iii)+H.7*C.2.6.1(iii)+C.1.(xiv)*860/C.2.1(iii)+C.2.2(iii)+C.2.5(iii)+C.2.4(iii)+C.2.6(iii)+C.2.6.1(iii)+C.1.(xiv)**	**kcal/kWh**	**2128.66**	**2128.66**	**1418.35**	
I	**Performance Indicators (MBF)**						
I.1	SEC of Other Products		Fuel consumtion / tonne of products	0	0.00	0	
I.2	SEC of Other Products		kWh/T	0	0.00	0	
I.3	Sinter SEC		Gkal/tp	0	0.00	0	
I.4	Sinter SEC		Gkal/ tcs	0	0.00	0	
I.5	Blast Furnace (B.F.) SEC		Gkal/tp	0	0.00	0	
I.6	Blast Furnace (B.F.) SEC		Gkal/ tcs	0	0.00	0	
J	**Raw Material Quality**						
J.1	FeT in Iron ore		%	0	0.00	0	
J.2	Ash % in Non Coking Coal		%	0	0.00	0	
J.3	GCV of Non Coking Coal		Kcal/kg	0	0.00	0	
J.4	Ash % in Coking Coal		%	0	0.00	0	
K	**Coal Quality in CPP/Boiler (As Fired Basis)**						
i	**Ash**	**Annual**	**%**		**0.00**	0	
ii	**Moisture**	**Annual**	**%**		**0.00**	0	
iii	**Hydrogen**	**Annual**	**%**		**0.00**	0	
iv	**GCV**	**Annual**	**kcal/kg**		**0.00**	0	

L	Miscelleneous Data $						
L.1	Additional Equipment installation after baseline year due to Environmental Concern			3633			476 3624
(i)	Additional Electrical Energy Consumed	Annual	Lakh kWh			0.00	
(ii)	Additional Thermal Energy Consumed	Annual	Million kcal			0.00	
L.2	Biomass/ Alternate Fuel availability						
(i)	Biomass replacement with Fossil fuel due to Biomass un-availbility (used in the process)	Annual	Tonne			0.00	
(ii)	Alternate Solid Fuel replacement with Fossil fuel due to Alternate Solid Fuel un-availbility (used in the process)	Annual	Tonne			0.00	
(iii)	Alternate Liquid Fuel replacement with Fossil fuel due to Alternate Liquid Fuel un-availbility (used in the process)	Annual	Tonne			0.00	
L.3	Project Activities (Construction Phase)						
(i)	Electrical Energy Consumed due to commissioning of Equipment	Annual	Lakh kWh			0.00	
(ii)	Thermal Energy Consumed due to commissioning of Equipment	Annual	Million kcal			0.00	
L.4	New Line/Unit Commissioning						
(i)	Electrical Energy Consumed due to commissioning of New process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Lakh kWh			0.00	
(ii)	Thermal Energy Consumed due to commissioning of New Process Line/Unit till it attains 70% of Capacity Utilisation	Annual	Million kcal			0.00	
(iii)	SI from DRI route Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns			0.00	
(iv)	Pig Iron Production till new line attains 70% of Capacity utilisatiion	Annual	Tonns			0.00	
(v)	Date of Commissioning (70% Capacity Utilisation)	Date				0.00	
(vi)	Electrical Energy Consumed from external source due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Lakh kWh			0.00	
(vii)	Thermal Energy Consumed due to commissioning of New Line/Unit till it attains 70% of Capacity Utilisation in Power generation	Annual	Million kcal			0.00	
(viii)	Steam Generation From Co-Gen till New Line /Unit attains 70% of Capacity Utilisation	Annual	Ton			0.00	
(ix)	Net Electricity Genration till new line/ Unit attains 70% Capacity Utilisation	Annual	Lakh kWh			0.00	
(x)	Date of Commissioning (70% Capacity Utilisation)	Date				0.00	
L.5	Unforeseen Circumstances						
(i)	Electrical Energy to be Normalised	Annual	Lakh kWh			0.00	
(ii)	Thermal Energy to be Normalised	Annual	Million kcal			0.00	
$ Authentic documents in support of claim in Thermal and Electrical Energy is required							
M	Documentation for Normalisation						
(i)	Scrap % -Document Available for Normalisation		Yes/No	No	No	No	
(ii)	Start Stop-Document Available for Normalisation		Yes/No	No	No	No	
(iii)	Fuel Quality in CPP & Co-Gen -Document Available for Normalisation		Yes/No	No	No	Yes	
(iv)	Power Mix-Document Available for Normalisation		Yes/No	No	No	No	
(v)	Intermediate Product-Document Available for Normalisation		Yes/No	No	No	No	
(vi)	Other Factos - Document Available for Normalisation		Yes/No	No	No	No	
N	Energy Saving and Investment	Annual	Million Rs				
(i)	Investment made for achieving target	Annual	Million Rs	0.00	0.00		
(ii)	Thermal Energy Saving during the year						
a	Solid Fuel						
a.1	Coal	Annual	Million kcal	0.00	0.00	0.00	
a.2	Lignite	Annual	Million kcal	0.00	0.00	0.00	
a.3	Petro Coke	Annual	Million kcal	0.00	0.00	0.00	
a.4	Biomass/Waste	Annual	Million kcal	0.00	0.00	0.00	
b	Liquid Fuel (FO/HSD/LDO/LSHS/HSHS)	Annual	Million kcal	0.00	0.00	0.00	
c	Gaseous Fuel	Annual	Million kcal	0.00	0.00	0.00	
(iii)	Electrical energy Saving during the year	Annual	Lakh kWH	0.00	0.00	0.00	
O	Process Flow Diagram Attached	Yes/No				Yes	

	Please enter numeric values or leave blank
0	**Please eneter numeric value or "0"**
	Fomulae Protected
Yes	Select from the list Yes or No
	Data not to be filled
	Please enter text value

We ……undertake that information furnished in the Sectror Specific Form I are complete and acciurate to the best of my knowledge. I also undertake that the information provided for Normalisation is limited to external factors only.

Signature of Energy Manager
Name

Date:

Place:

(Signature of the Chief Executive)

Organisation Seal