



Chandheria Cement Works, Chittorgarh

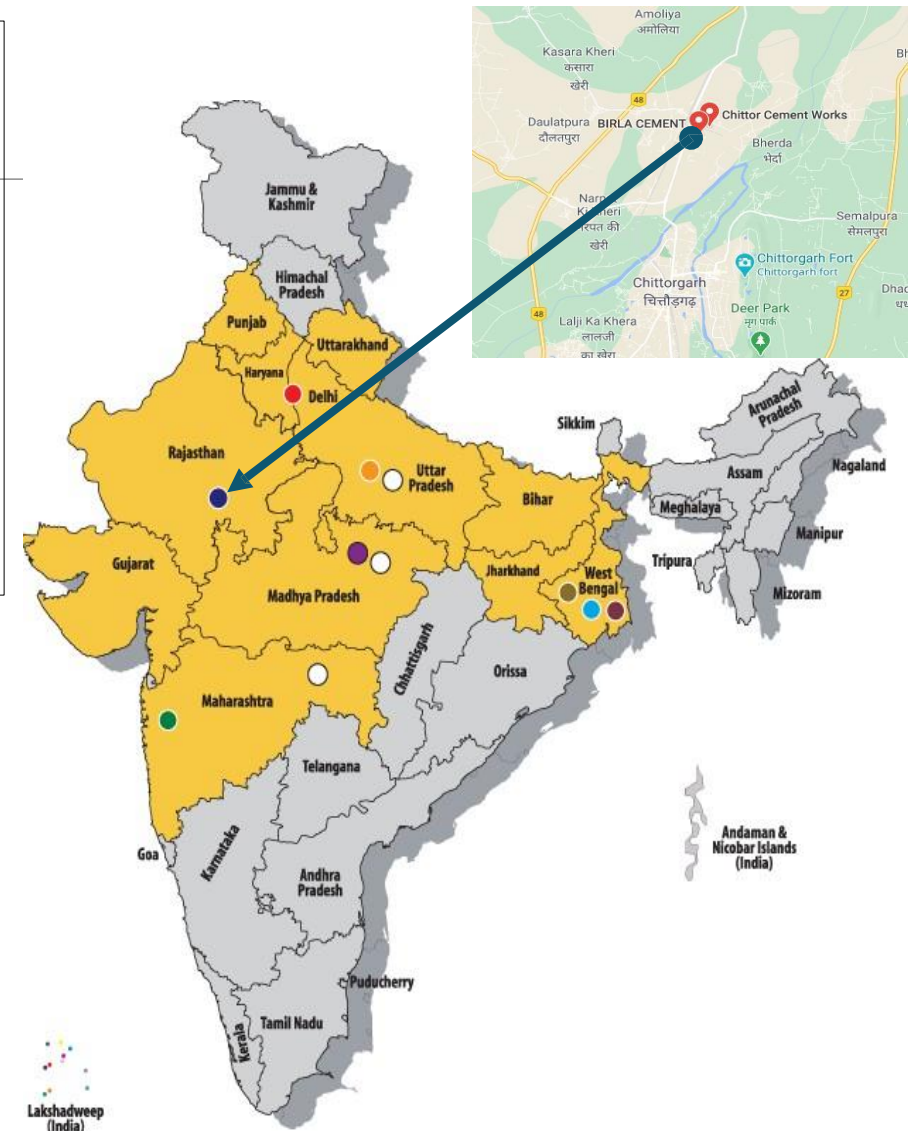
BIRLA CORPORATION LIMITED



Plant Details

Chanderia Unit

- **Location** : 4 Km from Chittorgarh & 315 Km from Jaipur
- **Installed capacity** : 4.0 MTPA Cement
 - Birla Cement Works Kiln (2 Kilns)
 - Chanderia Cement Works (2 Kilns)
- **Lime Stone** : Bherda & Jai Surjana Lime stone mines
Annual Production 4.32 MTPA



Plant Details

Chandaria Unit

Plant	Year	Make	Installed Capacity (TPD)	Present Capacity (TPD)	Remarks	
Clinkerization						
BCW	Kiln-1	1967	FLS / L & T	600	1050	Last up-gradation was done in 1991-92 by L & T. BCW kiln is not in operation most of the time due to high manufacturing cost and limestone issue. It runs only on emergency requirement.
	Kiln-2	1971	FLS / L & T	600	1050	
CCW	Kiln-1	1986	FLS	2500	3700/3300	Last up-gradation was done in 2009 by M/s Atec.
	Kiln-2 (NCCW)	2012	FLS	3600	4850	Up-gradation work is in progress. Phase-I part was completed in Jan. '20.

Plant Details

Chanderia Unit

Plant		Type	Make	Rated Capacity-TPH	Present Capacity-TPH
Raw grinding					
BCW	RM-1	Ball Mill	FLS	68	70
	RM-2		FLS	68	70
CCW	RM-1	Ball Mill	FLS	230	180
	RM-2	VRM	NHI-China	155	190
NCCW	RP1 & RP2	2 Roller Presses in complex mode	KHD	465	390

Plant		Type	Make	Rated Capacity-TPH	Present Capacity-TPH
Cement grinding					
BCW	CM-1	Ball Mill	FLS	45	45
	CM-2		FLS	45	45
CCW	CM-1	Ball Mill + Polycom	TKII	315	315
	CM-2		TKII	325	290



Company Profile

Birla Corporation Limited is the flagship Company of the M.P. Birla Group. Incorporated as Birla Jute Manufacturing Company Limited in 1919, it was Late Mr. Madhav Prasad Birla who gave shape to it. As Chairman of the Company, he transformed it from a manufacturer of jute goods to a leading multi-product corporation with widespread activities. Under the Chairmanship of Mrs. Priyamvada Birla, the Company crossed the Rs. 1,300 - crore turnover mark and the name was changed to Birla Corporation Limited in 1998.

After the demise of Mrs. Priyamvada Birla, the Company continued to consolidate in terms of profitability, competitiveness and growth under the leadership of Mr. Rajendra S. Lodha, late Chairman of the M.P. Birla Group. Under his leadership, the Company posted its best ever results in the years ended 31.3.2006, 31.3.2007 and 31.3.2008. The Company continued to record impressive growth in 2008-09 and 2009-10.

Mr. Harsh V Lodha is now Chairman of the Company.

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Company Profile

The Company is primarily engaged in the manufacturing of cement as its core business activity. It has significant presence in the jute goods industry as well.

The Company has acquired 100% shares of Reliance Cement Company Private Limited (Reliance Cement), a subsidiary of Reliance Infrastructure Limited (RIL). After this acquisition, Reliance Cement has become a wholly-owned material subsidiary of Birla Corporation Limited. The entire cement business of RIL has been acquired for an Enterprise Value of Rs. 4,800 crores. This acquisition provides Birla Corporation Limited with the ownership of high-quality assets, taking its total capacity from 10 MTPA to 15.5 MTPA

PRODUCT	INSTALLED CAPACITY
Cement	15.5 Million Tons
Jute Goods	52,631 Metric Tons
Iron & Steel Casting	3,750 Metric Tons

Chandheria Cement Works

We would like to throw some light on our plant's background:-

Blasting in our plant mines was banned in 2012 by hon'ble supreme court as it was falling within 05 Kms radius of Chittorgarh fort. That was a hard time we faced suddenly and we accepted it as a challenge and decided to go for mechanical mining. We invested in breakers and splitters and slowly we reduced our dependency on outsourced LS by optimization of raw mix & fuel mix, increased usage of petcoke up to 100% other than AFR. Thus our team bounced back leaving all past setbacks. We are now able to produce 80% of our Lime stone requirement from own mines. We are now one of the best in Chittorgarh cluster in many KPIs like fly ash absorption, Cement grinding power, AFR utilization etc.

It's only plant in India having fully mechanized mines and operated without blasting.

Energy Consumption Overview

Description	UOM	Consumption During Years				
		2017-2018	2018-2019	2019-2020	2020-2021	2021-22
Total Thermal Energy Consumption	(Million Kcal)	2317073.7	2443905.1	2319816	2117260	2044502
Total Electricity consumption	Million kWh	260.836	271.967	253.954	219.35	259.65
Electricity Purchased from Grid	Lakh kWh	701.66	679.27	482.04	483.02	1121.47
Electricity Exported to Grid/Colony/Others from CPP	Lakh kWh	339.63	187.14	302.61	277.17	157.23
Total Energy Consumed (Thermal+ Electrical)	(Million Kcal)	2285139	2426955.8	2244270	2050574	2082206
Specific Energy Consumption(Without Normalization)	(TOE)	0.0763	0.0632	0.0640	0.0649	0.0610
Specific Energy Consumption (Normalized)	(TOE)	0.0698	0.0632	0.0628	0.0633	0.0613
R.P.O Obligation in Percentage	%	14.25	13.35	15	13.43	14.25

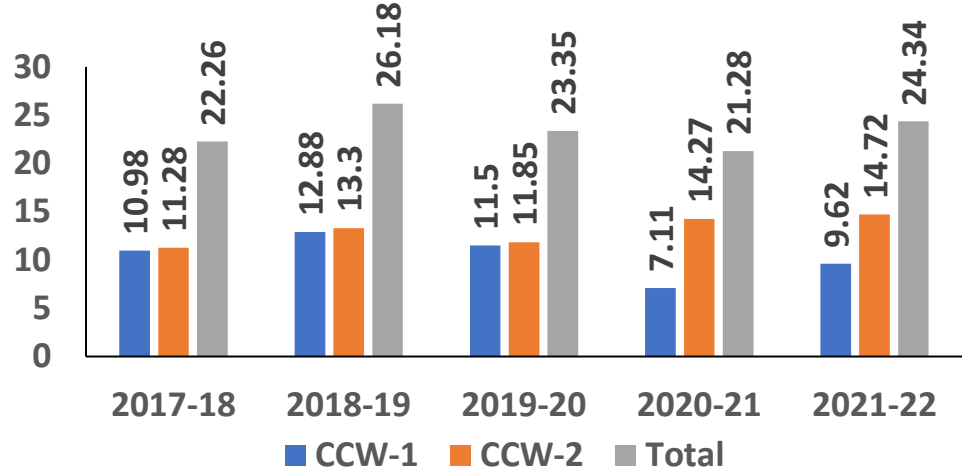
Normalized Gate to Gate Specific Energy Consumption:-**0.0613 toe/ton** of equivalent Cement

- **Electrical Energy Consumption:- Reduced 10.25 kWh/MT** Cement Power consumption in last 05 Years
- **Thermal Energy Consumption:- Reduced 22.0 kcal/kg clinker** in CCW-1 Kiln and **27.0 Kcal/kg clinker** in CCW-2 last 05 Years
- **Fly ash Utilization:- 7.22% Increase in fly ash utilization at BCW** (from 24.86% to 32.08) and **3.0% increase in fly ash utilization at CCW** (from 30.86% to 33.86%) in last 05 Years
- **Waste Utilization:- Used 140451 MT Solid & LIQUED** AFR during last 5 Years in CCW & NCCW.

Chanderia Cement works.				
PAT Cycle No.	Energy Consumption in Kcal/Kg Majorproduct			Energy Saving Certificate Acieved
	Base Line Energy Consumption	Target	Achieved	
PAT Cycle-1 (Assessment Year 2014-15)	887	845	804	7098
PAT Cycle-2 (Assessment Year 2018-19)	749	712	636	23235

CCW Clinker Production and Kiln TPD

Clinker production (Lac Tons)

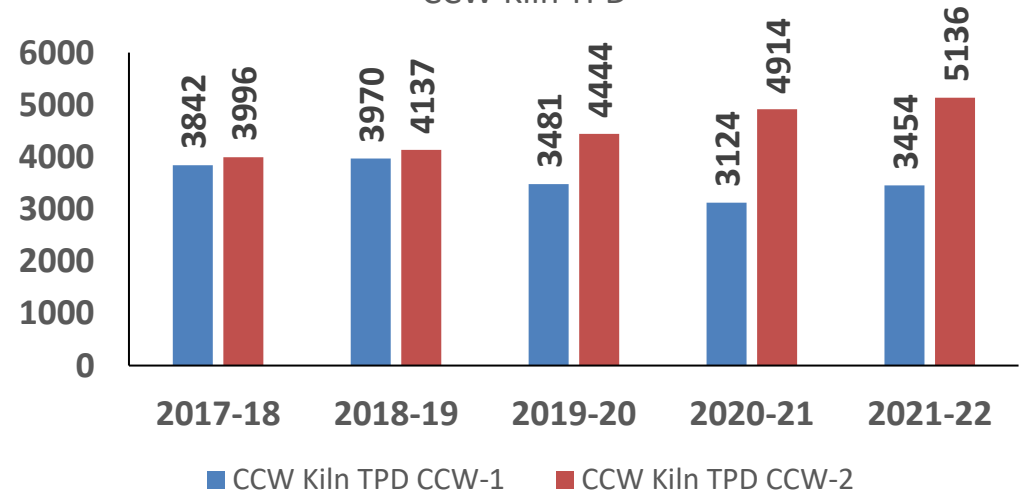


Clinker Production(Lac Tons)			
Year	CCW-1	CCW-2	Total
2017-18	10.98	11.28	22.26
2018-19	12.88	13.30	26.18
2019-20	11.50	11.85	23.35
2020-21	7.11	14.27	21.28
2021-22	9.62	14.72	24.34

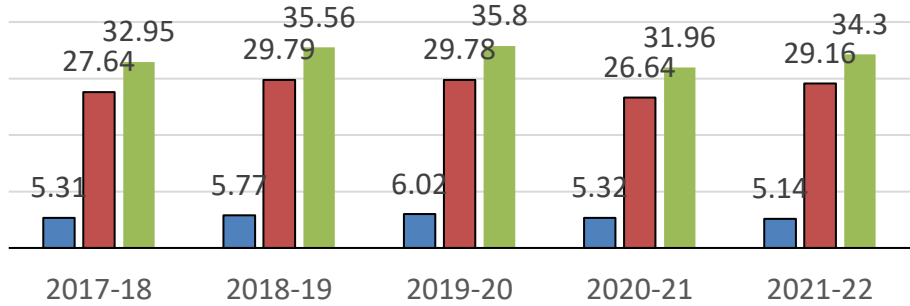


CCW Kiln TPD		
Year	CCW-1	CCW-2
2017-18	3842	3996
2018-19	3970	4137
2019-20	3481	4444
2020-21	3124	4914
2021-22	3454	5136

CCW Kiln TPD



Cement Production (Lac Tons)



■ Cement Production (Lac Tons) BCW ■ Cement Production (Lac Tons) CCW
■ Cement Production (Lac Tons) Total



Cement Production (Lac Tons)

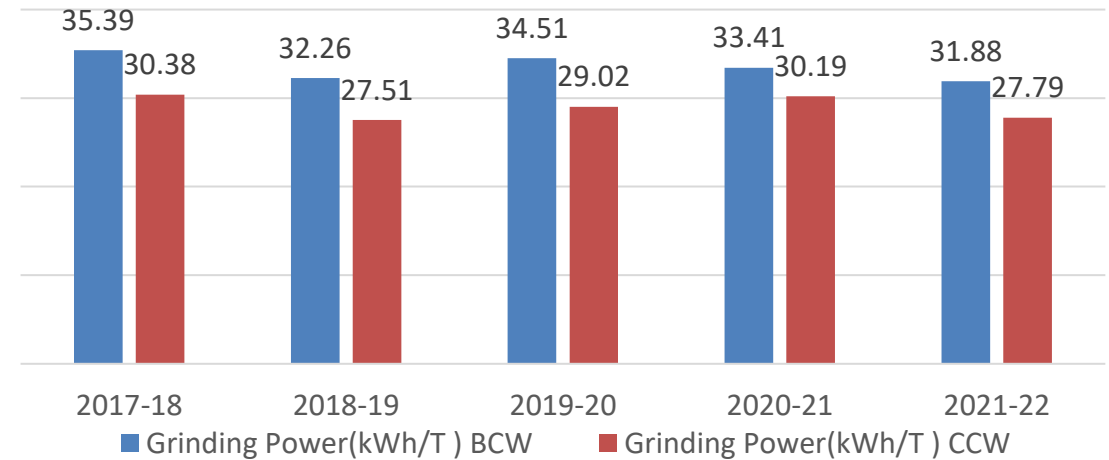
Year	BCW	CCW	Total
2017-18	5.31	27.64	32.95
2018-19	5.77	29.79	35.56
2019-20	6.02	29.78	35.80
2020-21	5.32	26.64	31.96
2021-22	5.14	29.16	34.30

Grinding Power(kWh/T)

Year	BCW	CCW
2017-18	35.39	30.38
2018-19	32.26	27.51
2019-20	34.51	29.02
2020-21	33.41	30.19
2021-22	31.88	27.79

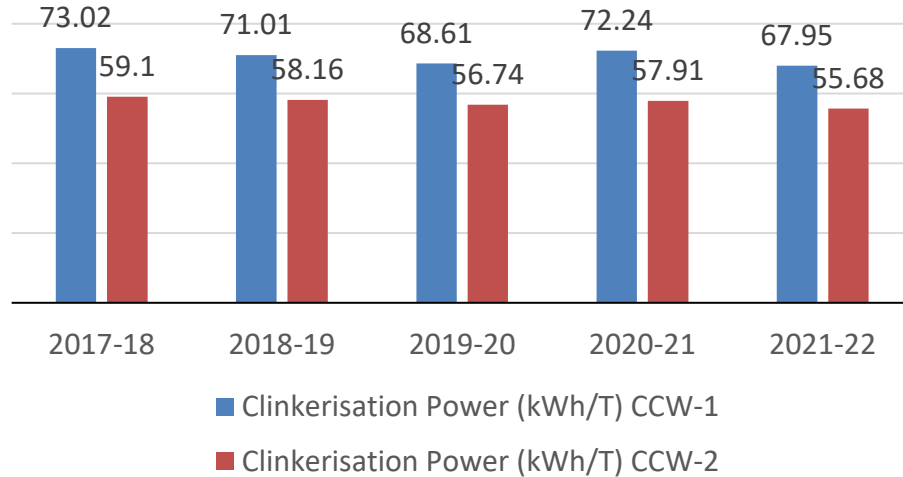


Grinding Power(kWh/T)



Clinker Power and Heat

Clinkerisation Power (kWh/T)



Clinkerisation Power (kWh/T)

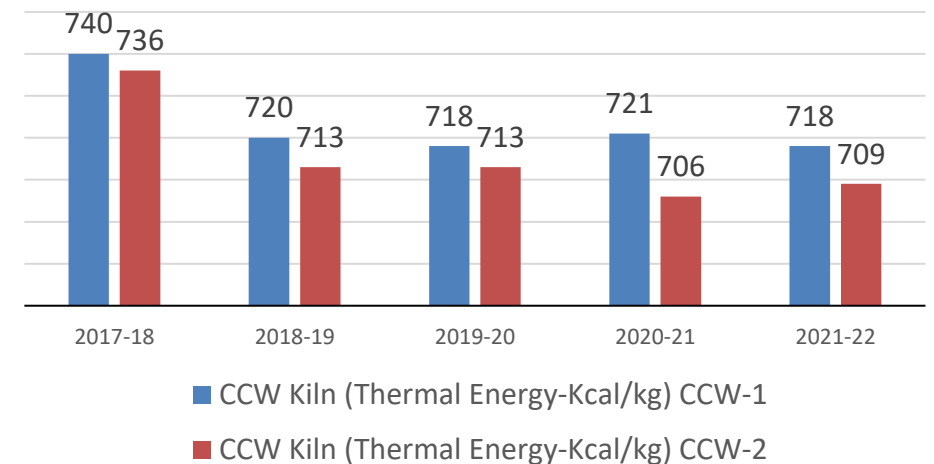
Year	CCW-1	CCW-2
2017-18	73.02	59.10
2018-19	71.01	58.16
2019-20	68.61	56.74
2020-21	72.24	57.91
2021-22	67.95	55.68

CCW Kiln (Thermal Energy-Kcal/kg)

Year	CCW-1	CCW-2
2017-18	740	736
2018-19	720	713
2019-20	718	713
2020-21	721	706
2021-22	718	709

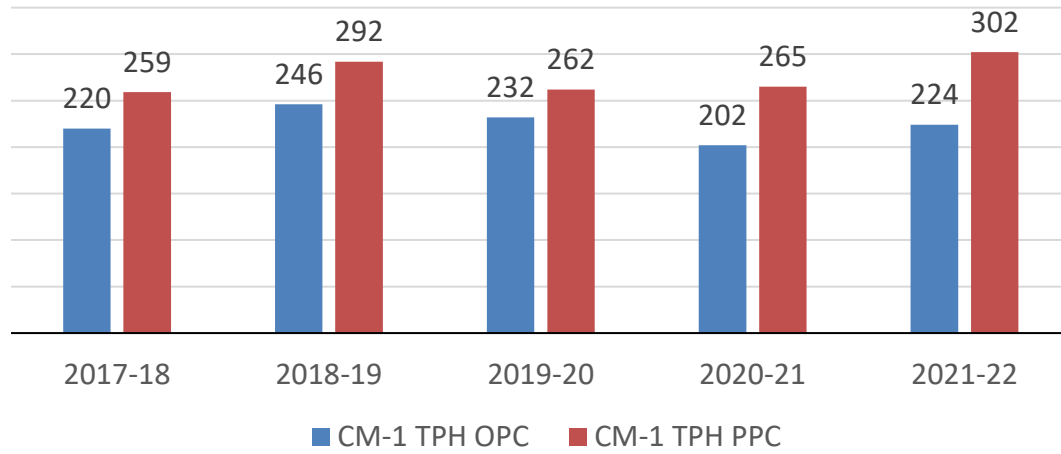


CCW Kiln (Thermal Energy-Kcal/kg)



CCW Cement Mills Performance(TPH)

CM-1 TPH



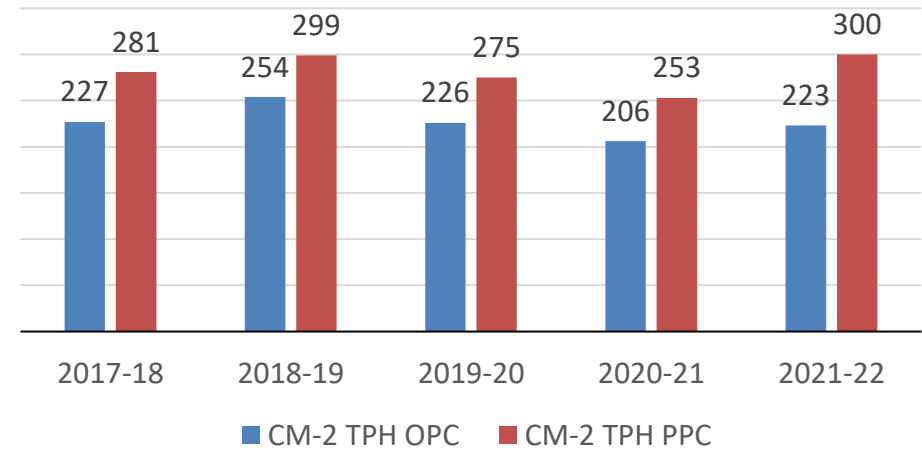
CM-1 TPH		
Year	OPC	PPC
2017-18	220	259
2018-19	246	292
2019-20	232	262
2020-21	202	265
2021-22	224	302



CM-2 TPH

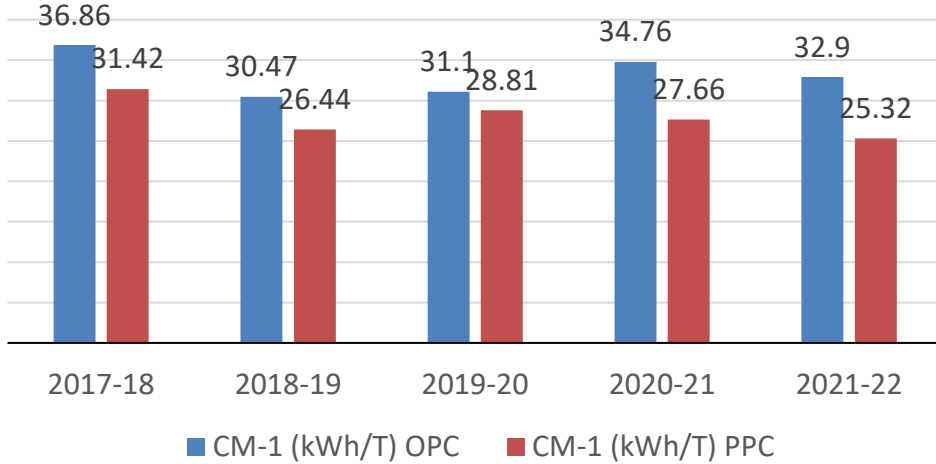
CM-2 TPH		
Year	OPC	PPC
2017-18	227	281
2018-19	254	299
2019-20	226	275
2020-21	206	253
2021-22	223	300

CM-2 TPH



CCW Cement Mills Performance (Power Consumption)

CM-1 (kWh/T)



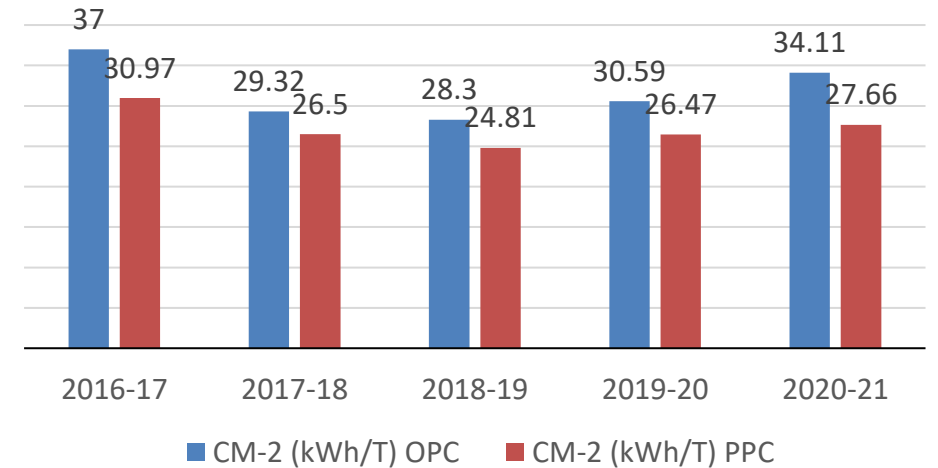
CM-1 (kWh/T)		
Year	OPC	PPC
2017-18	36.86	31.42
2018-19	30.47	26.44
2019-20	31.1	28.81
2020-21	34.76	27.66
2021-22	32.90	25.32



CM-2 (kWh/T)

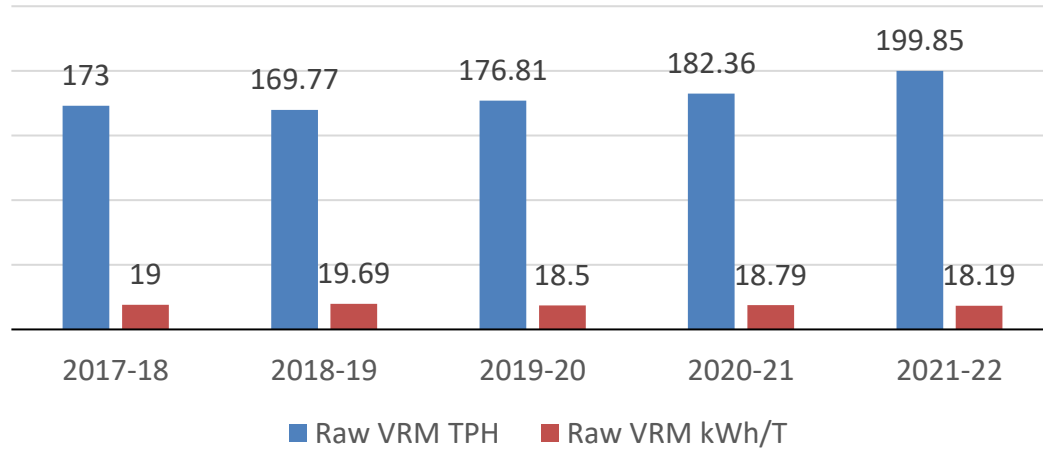
CM-2 (kWh/T)		
Year	OPC	PPC
2016-17	37.0	30.97
2017-18	29.32	26.5
2018-19	28.30	24.81
2019-20	30.59	26.47
2020-21	34.11	27.66

CM-2 (kWh/T)



CCW Raw Mills Performance (Power Consumption)

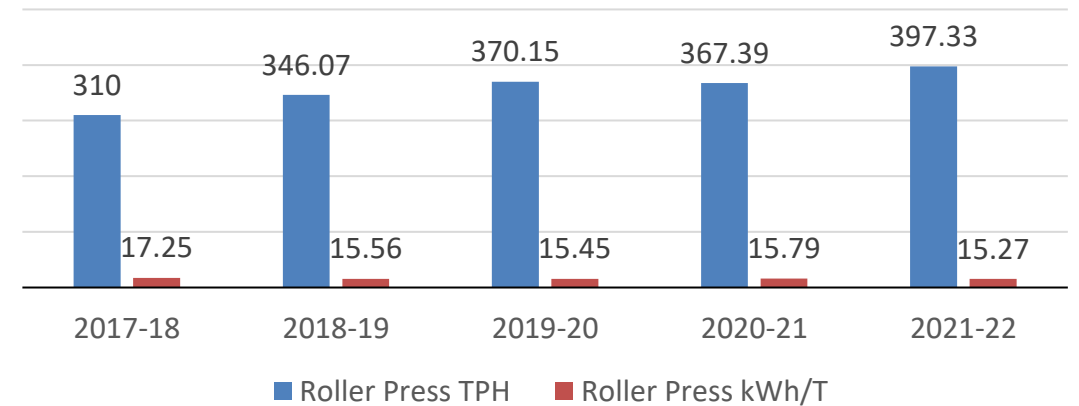
Raw VRM



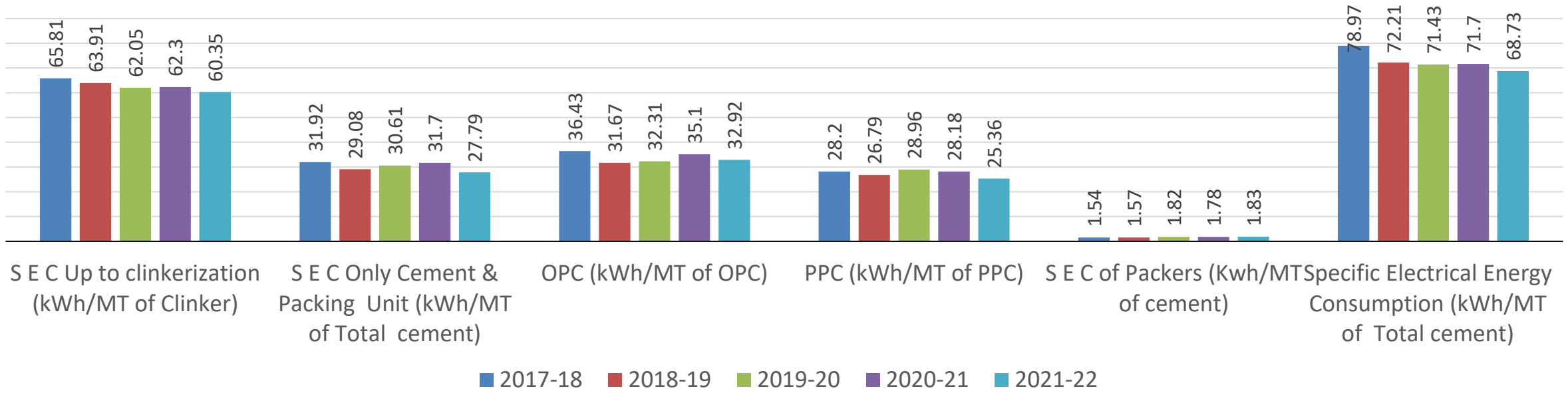
Raw VRM		
Year	TPH	kWh/T
2017-18	173.0	19.0
2018-19	169.77	19.69
2019-20	176.81	18.5
2020-21	182.36	18.79
2021-22	199.85	18.19

Roller Press		
Year	TPH	kWh/T
2017-18	310.0	17.25
2018-19	346.07	15.56
2019-20	370.15	15.45
2020-21	367.39	15.79
2021-22	397.33	15.27

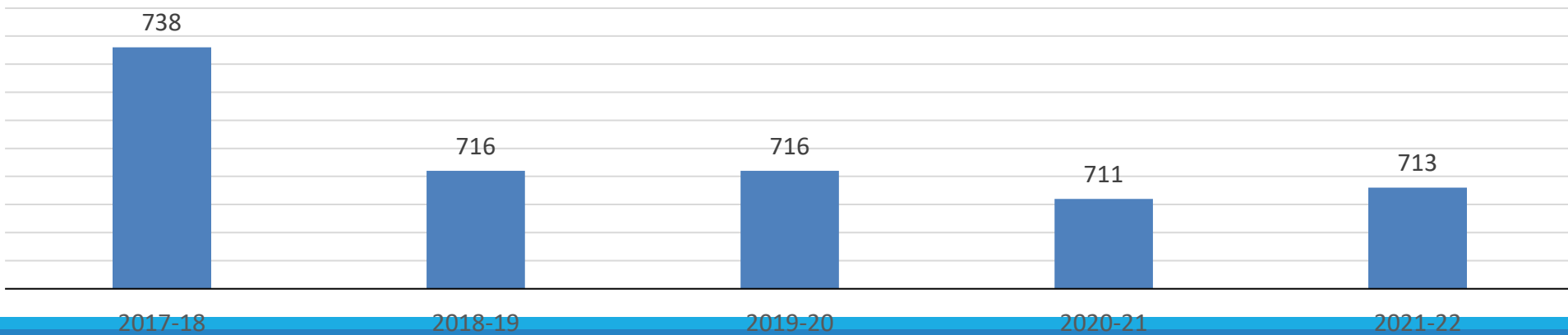
Roller Press

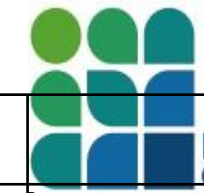


Sp. Electrical Energy Consumption in last 5 years (Section wise Bifurcation)



Specific Thermal Energy Consumption of Last five Years (Average Of Line-1&2) kcal/kg of clinker





**MP BIRLA
GROUP**

Information on Competitors, National & Global benchmark

		Cluster Benchmarking	National Benchmarking	NCCW	Remarks
Impact crusher Power Breakup (KWH/T Mtl)					
a	Crusher Drive		0.2		
b	Other Auxilaries		0.38		
c	Jai Crusher			1.52	
d	CCW Crusher			3.52	
e	Total		0.58		
Roller Press Power Break-up For Raw Grinding (KWH / T mtl)					
1	Make	Polysius Roller Press	FLS HRP	KHD	
2	Raw Mill Aux	0.59	3.23	2.85	
3	Raw Mill Fan	2.68	2.20	4.86	
4	Seperator ventFan		1.11		
5	Raw Mill Roller PressMotor	7.17	6.40	7.02	
6	Raw Mill Dynamic Separator	0.16			
7	Raw Mill Transport	0.71			
8	Mill feeding belt	0.14			
9	Roller Press B/E	0.73			
10	Silo feeding B/E	0.25		0.98	
11	Compressors	0.20		0.78	
12	Total	12.63	12.94	16.48	
Coal Mill Power Break-up (KHW/T Mtl)					
13	Make	Pfifer (Pet coke Grinding)	Polysius (Petcoke Grinding)	Pfifer (Petcoke Grinding)	
14	Coal Mill Aux	3.17	4.98	12.8	Coal Mill is design for 60 HGI but we are operating at 40 HGI of Coal
15	Coal Mill Fan	15.19	12.30	14.5	
16	Coal Mill Main Drive	12.23	18.90	14.8	
17	Coal / Gypsum Storage	4.21			
18	Compressors	1.43			
19	TOTAL	36.2	36.2	42.1	18

Information on Competitors, National & Global benchmark

Pyro - Power Break - Up (KWH / T Clk)					
20	Make	Thyseen Krup		FLS	
21	Baghouse Fan	1.1		3.09	
22	Bag House Transport	0.2			
23	Cooler Fans, PA Fan &	4.9	3.4	6.07	Selection of cooler is different
24	Kiln Main Drive	2.0	1.5	1.3	
25	Kiln Auxiliary	0.5	4.2	3.8	
26	Kiln Feed	0.9	1.0		
27	Preheater Fan	4.9	8.7	7.1	Pre-Heater fan is operating on LRS
28	Root Blowers, Coal firing	0.6			
29	Clinker silo transport gro	0.5			
30	Dialution airfan	0.0			
31	ESP transformers	0.0		0.21	
32	Cooler hydraulic pumps	0.2		0.54	
33	Kiln feed B/E	0.8		0.36	
34	ESP Fan	0.7	1.2	0.65	
35	Compressors	0.8		1.19	
36	TOTAL	18.1	19.98	24.4	
Cement Mill OPC - 43 (KWh / T)					
		Polysius - RP for cement grinding		Polysius - RP for cement grinding	
37	Mill Main Drive	12.06		10.04	
38	Seperator			1.35	
39	Mill Seperator Fan				
40	Sepol Fan	1.88		3.59	
41	Seperator Ball Mill				
42	Booster Fan				
43	Roller Press drive	4.35		7.2	
44	Fly-Ash unloading				
45	Compressors			0.94	
46	Re-circualtion Elevator			0.66	
47	Auxiliary	4.6		5.94	
48	TOTAL	22.89	0	29.72	
Cement Mill PPC (KWh / T Ce)					
		Polysius - RP for cement grinding		Polysius - RP for cement grinding	
49	Mill Main Drive	13.9		7.6	
50	Seperator			0.98	
51	Mill Seperator Fan	2.4			
52	Sepol Fan			2.72	
53	Seperator Ball Mill				
54	Re-circualtion Elevator			0.5	
55	Roller Press drive	4.62		6.04	
56	Fly-Ash unloading			1.16	
57	Cpmpressor			0.95	
58	Auxiliary	4.6		4.9	
59	TOTAL	25.52	0	24.85	

Energy Saving projects implemented in for last five years

Year	No. of Proposals	Investments	Savings	Payback months
2017-18	13	1991.34	1828.29	11
2018-19	14	1312.15	3618.68	3
2019-20	08	2800	987.77	3.0
2020-21	4	Nil	854.248	0
2021-22	2	15,000	1030.79	0

Project Details	Investments (Rs. million)	Savings (Rs. million)	Payback months
Optimization of NCCW Kiln-2 (Thermal)	13	15.01	0
Optimization of CCW CM-1 Grinding	0	32.61	0
Optimization of CCW CM-2 Grinding	0	33.40	0
Optimization of CCW Kiln (Electrical)	0	7.59	0
Optimization of Roller press for raw meal Grinding	2	9.32	0
Total Saving		103.079	

Major Energy Saving projects implemented

Phase-I part of NCCW Expansion Project up to 6000 TPD (Design - 5500 TPD) consisting of the following has been completed:

- Installation of ABC inlet instead of CIS at clinker cooler
- Extension of clinker cooler by addition of 02 nos. cooler modules
- Up gradation of Cooler ESP by addition of 4th field of ESP
- After completion of the above, the Specific Heat Consumption of NCCW has reduced up to 705 Kcal/kg clinker and Kiln TPD increased up to 5000 TPD.



Energy Saving projects implemented in for last three years



Top view of extended part of Clinker Cooler



Side view of extended part of Clinker Cooler HRB



Clinker Cooler Fan no. 8



Clinker Cooler ESP Vent Fan

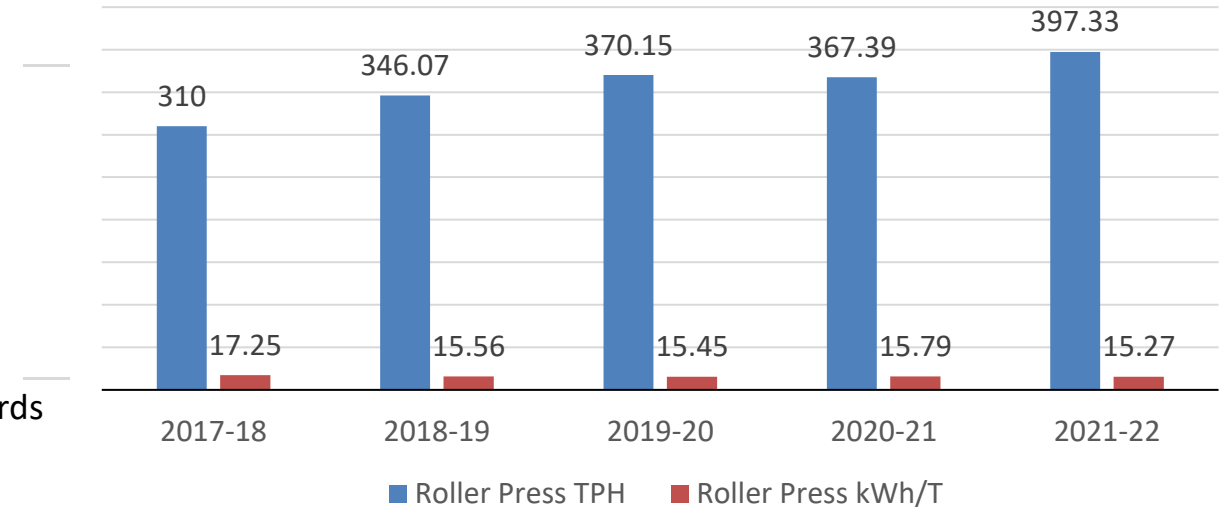
Innovative Projects implemented

1. Raw grinding roller press Optimization

Action Taken:-

- During maintenance both feed gate checked and gap was uneven for both RPs which was varying from 120 to 180 gap. We have reduced it up to 120 mm by adjusting the plate , choke feeding started due to this.
- Levelsensor in overflow bin below SKS separator is always showing 1.98 MT(Full) due to this there is always having some risk of filling material in separator and fines eject from separator overflow bin air slide to both elevators, Lev elsensor checked by instrument andnow it is working perfectly
- Blaster installed at SKS outlet duct to avoid dust accumulation.
- It was observed many times that When both RPs running in auto condition and RP-1 tripped due to any fault whole fines from SKS rushed towards RP-2 and bucket elevator tripped many times , Logic changed andnow fines controlling is better.
- Motorized actuator required for SKS reject air distribution gate for RP-1 for better fines control, Correct size Actuatorinstalled to control reject material.

ROLL PRESS PERFORMANCE CCW
(TPH and kWh/T Material)



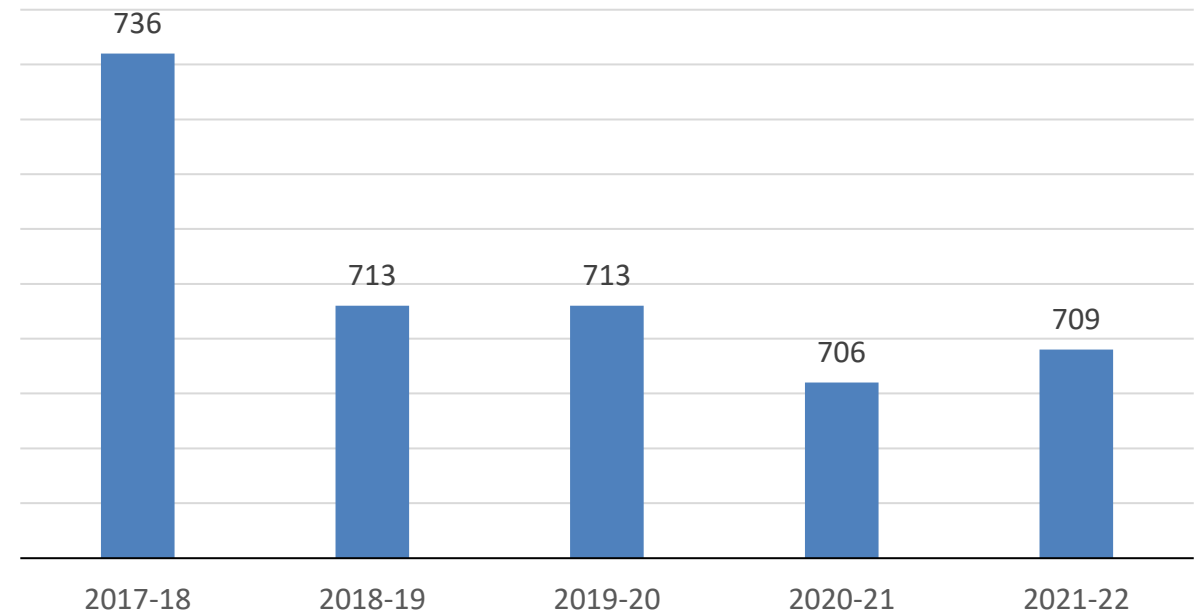
Innovative Projects implemented

2. Reduction in thermal Energy consumption

Action Taken:-

- Formation of lime stone piles instead of point stacking (Quality variatio reduced)
- Same fuel mix started for both the kilns(100% Pet coke).
- Dedicated SGA teams formed for regular arresting of false air.
- Change both inlet and outlet seal for CCW-1.
- Reduce kiln feed residue from 18-19% to 16-17% @+90
- Reduced Kiln feed residue from 4.67% to 2.5% @+212
- Change kiln burner for CCW-1
- False air arrested and major leakages arrested during kilns shutdown.

Thermal Energy Consumption-Kcal/kg clinker



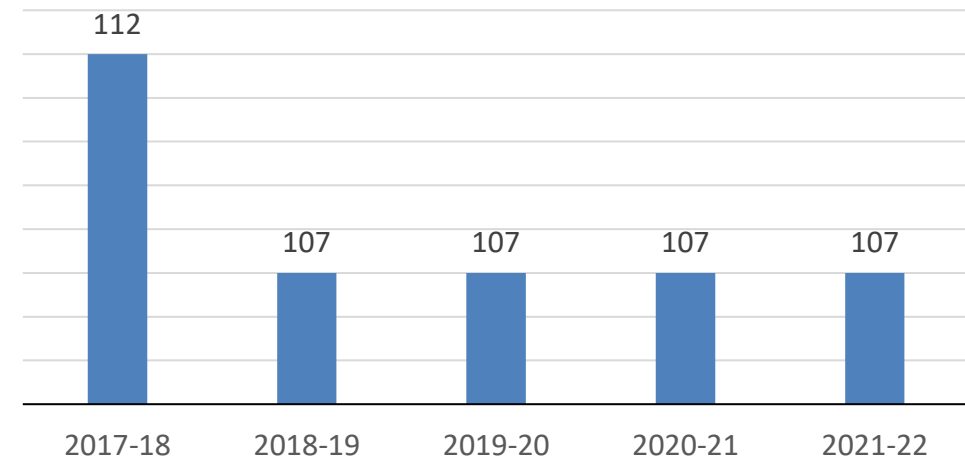
Innovative Projects implemented

3. Reduction in Lime stone Pile LSF and reduce outsourced lime stone

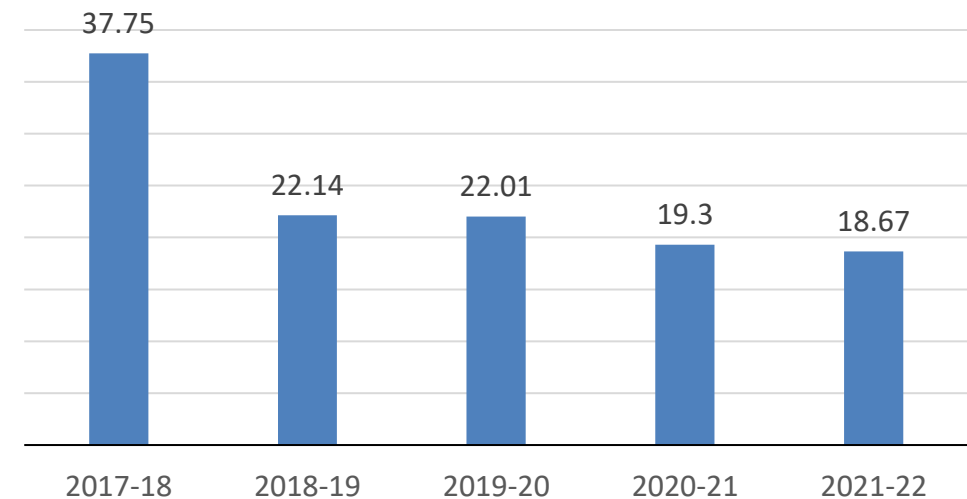
Action Taken:-

- Usage of bauxite having silica up to 7-8%
- Formation of larger size lime stone piles instead of point stacking
- Increase pet coke consumption in CCW up to 100%
- Raw mix optimization according to available fuel mix
- Reduce kiln feed residue from 18-19% to 16-17% @+90
- Reduced Kiln feed residue from 4.67% to 2.50% @+212 R
- Increase smoke chamber and riser duct cleaning frequency
- Installation of extra air cannon as per the requirements

Lime stone Pile LSF

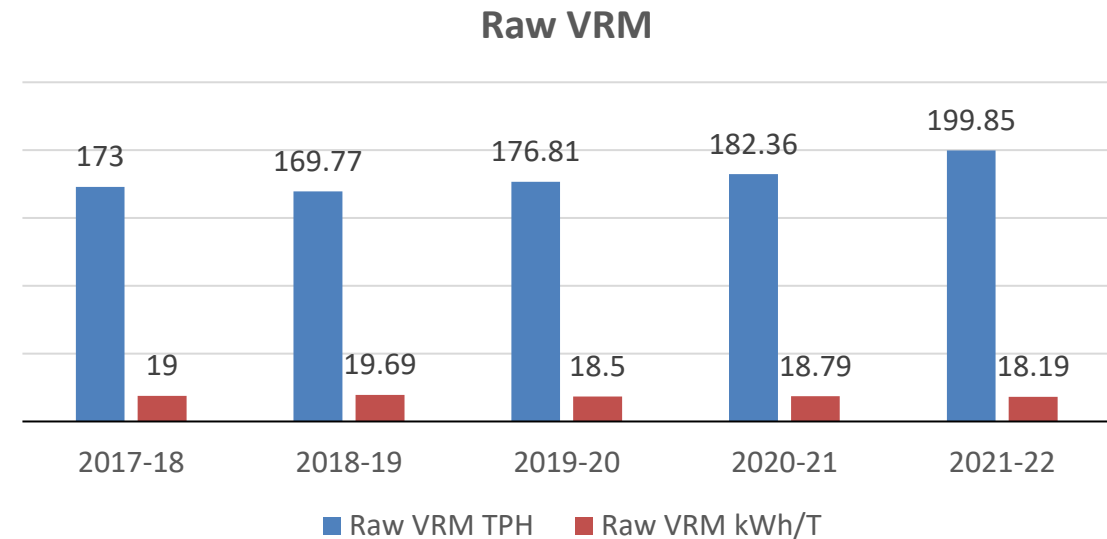


Outsources limestone %



4. Optimization of Vertical Roller Mill and reduce breakdowns

Description & Action Taken:-	status
Dam ring provided for mill table	Done (30mm dam ring)
Interlocking to be changed for metal detector from 3 times to 02 times in the circuit and to be revised in future if required	Done
Reset LBP (at RM-1) shifted near metal detector	Done
Damaged nozzle plates repaired and planned to replace complete set during next opportunity	Done
Replacement of table/roller liner	Done
Repair and Optimization feed entry triple gate and reject chute	Done
Reduction in False air entry (Up to 13%) and dedicated team formation to monitor in regularly	Done
Formation of Lime stone Piles instead of point stacking	Done



Innovative Projects implemented

5. Solar Plant (3 MW) Installed in Year 2019-2020

Power Generation-2021-22: 5.863050 m kWh



SHOT ON REDMI K20
AI TRIPLE CAMERA

Utilization of Renewable Energy Sources

Years	Onsite generation (MW)	Off-site generation (MW)	Investment made (INR Crores)	Capacity addition (MW)	Power generation (Kwh)	RPO obligation
2017-18	---	---	---	---	---	14.3
2018-19	---	---	---	---	---	13.4
2019-20	2384570	---	15	3	2384570	15
2020-21	5844656	---	15	---	5844656	13.4
2021-22	5863050	---	---	---	5863050	14.25

Installed Solar Power plant of 3.0 MW in FY 2019-20 and generated 5863050 Kwh in year 2021-22 which is renewable energy sources



SHOT ON REDMI K20
AI TRIPLE CAMERA

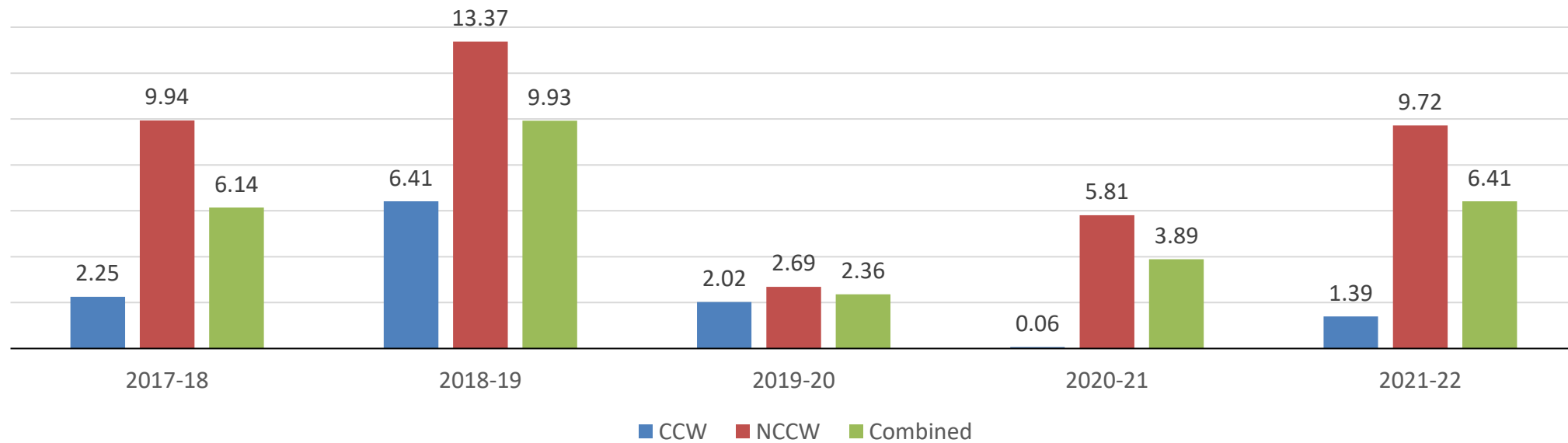
Waste utilization and management

Waste utilization and management (Usage of AFR)

Type of materials (MT)	2017-18	2018-19	2019-20	2020-21	2021-22
Carbon Black	3037	7468	2508	--	4670
Power Plant Ash	3114	0.92	--	--	-
Waste Mix Solids	9511	10383	6130	4924.39	7320
ETP Sludge	1203.04	--	--	--	137
Mustard Husk, Ground nut Husk	3621	6137.8	701	15	2977
TDI Tar	517.23	860.44	229	3.8	-
Industrial Waste	16.1	30.7	183	6	-
Waste Mix Solids Non Haz.	327	8.5	42	0.7	15
Saw Dust	--	673.58	64	77.8	445
Liquid Waste	292.86	3912	2398.5	133	4047
Plastic waste (Hazardous+Non hazardous)	45	4565.69	1778	9247.74	12629
COAL ASH	4169	14407.93	1909	--	-
Liquid (LCV)	--	13.5	--	--	6
Wooden Chips	145	139	66	130.43	38
N Hz paperwaste	--	4.25	--	--	-
Refused Derrived Fuel	--	--	60	18.3	-
FUEL PTRL,PTCK (PTRLM CK),TPP	6488	180.41	--	--	-
Crushed F.M.C.G	--	--	354	121.99	211
TOTAL	32486.22	48785.72	12005.5	14679.15	32495

Waste utilization and management

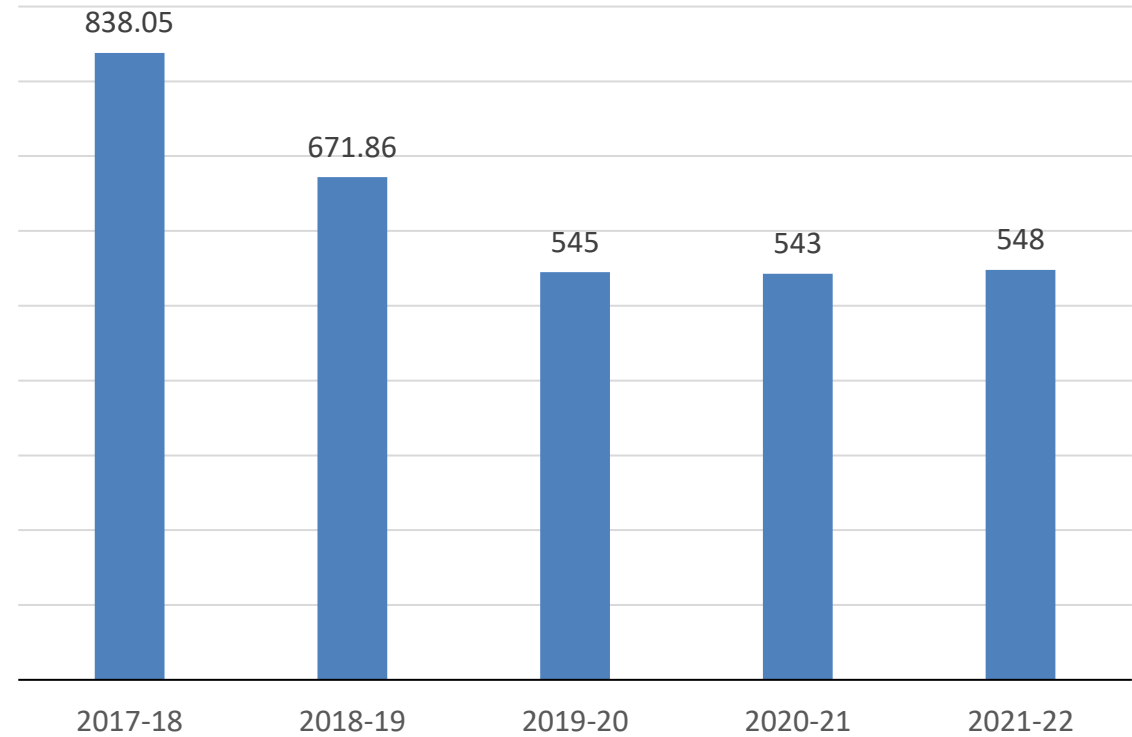
TSR %



GHG Inventorisation

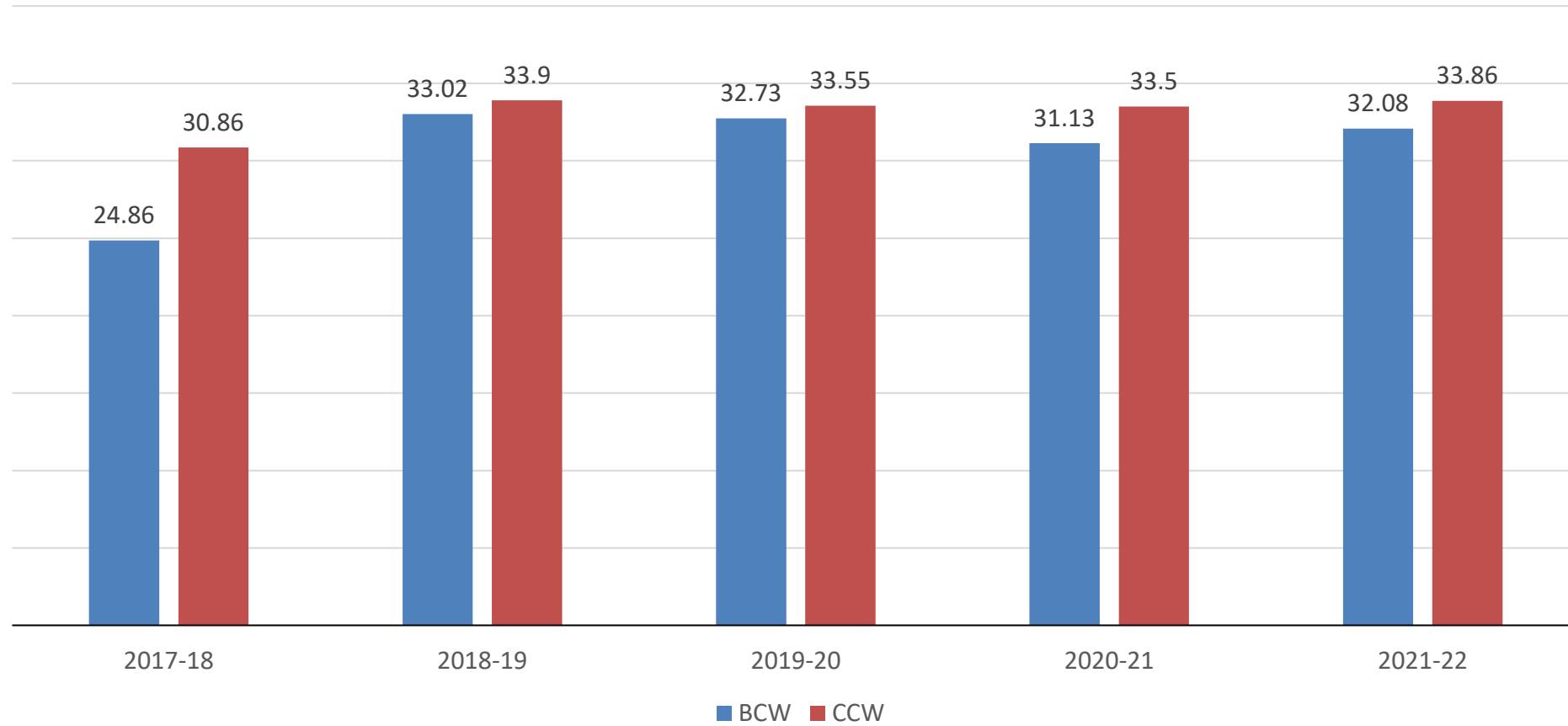
Green Plantation – Birla Premises

Reduction in Emission (kgCO₂/ Ton of Final Product)



Green Supply Chain Management

FLY AH ABSORPTION (%) IN PPC



Way forward

- Reduction in Thermal Energy/Electrical Energy of CCW Kiln-1 after TAD modification
- Reduction in Thermal Energy/Electrical Energy of CCW Kiln-2 after Expansion Phase-2
- Exploring possibilities to optimize fuel mix
- Increase usage of AFR

- **Electrical Energy Consumption:- Reduced 10.25 kWh/MT** Cement Power consumption in last 05 Years
- **Thermal Energy Consumption:- Reduced 22.0 kcal/kg clinker** in CCW-1 Kiln and **27.0 Kcal/kg clinker in CCW-2** in last 05 Years
- **Fly ash Utilization:- 7.22% Increase in fly ash utilization at BCW** (from 24.86% to 32.08) and **3.0% increase in fly ash utilization at CCW** (from 30.86% to 33.86%) in last 05 Years
- **Waste Utilization:- Used 140451 MT Solid & LIQUED** AFR during last 5 Years in CCW & NCCW

Team work, Employee Involvement & Monitoring

- Daily Energy review meeting chaired by **Unit Head (Review sheet attached below)**
- Separate **Budget taken every year** for energy saving projects
- *Energy efficiency/awareness training program conducted in house and external through RTC, CII etc.*
- Energy savings through Small group activities (**Total 42 Nos. of SGA groups-List Attached**)
- **Monthly Meeting review meeting held (Chaired by Unit Head) for each SGA** groups consisting down to level employees and workmen for various improvement initiative in the plant and award also given to performer team
- **One cross functional team (CFT) also formed** which review energy performance on **weekly basis** and send MOM to top management with a PPT for all the KPIs (**PPT Attached Below**)

SGA Monitoring and Encouragement

Energy Training

Inhouse Training

Twentythree Training Programs
Conducted

50 Nos. of Participants Covered

SGA Champions



5S
**A Workplace
Management System**

Energy Visit

5S Visit

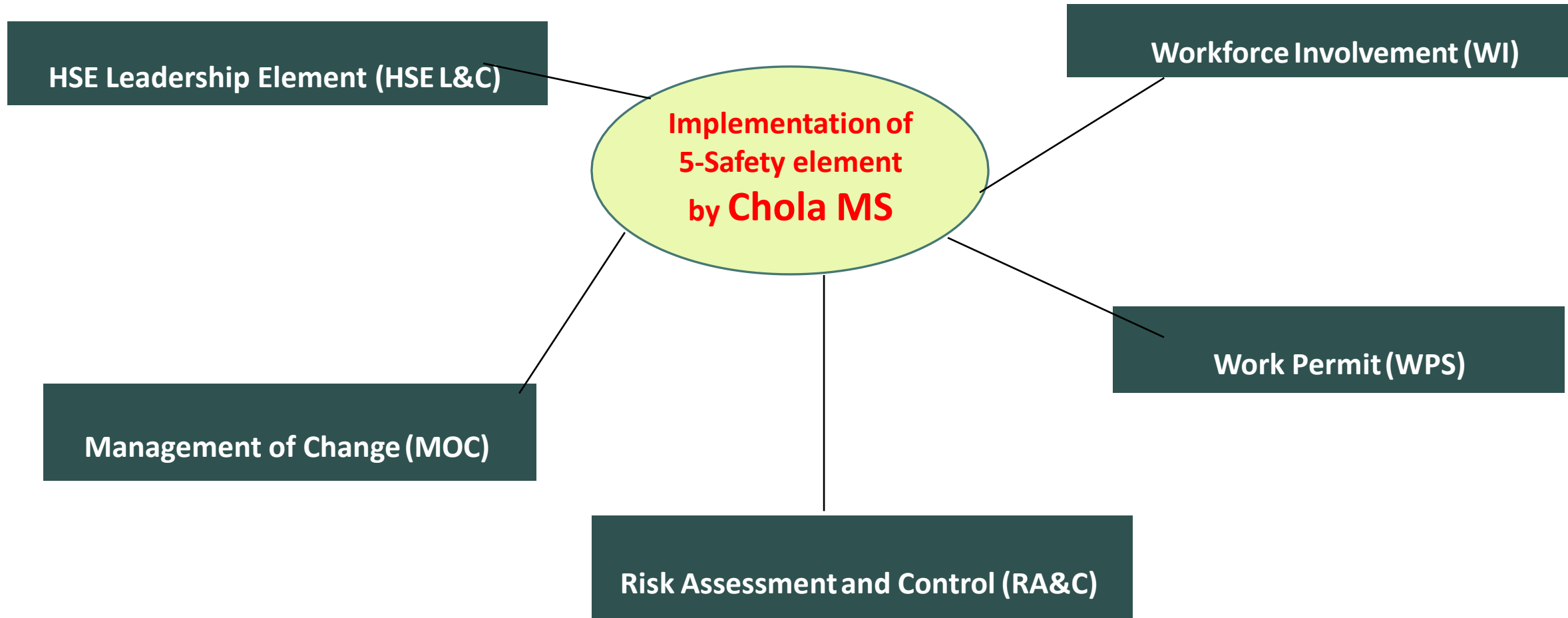


**Review Meeting with Zone
Members**

**Plant Visit for Reviewing Energy
Findings/5S**



Involvement of Employee/workmen for 5S, Energy etc. and review –



Involvement of Employee/workmen for 5S, Energy etc. and review –

Implementation of 5-Safety element by Chola MS



Sh. Rajesh Kakkar
President
Chanderia

I commit to improve Safety culture by:
• Every month on each working day a person of senior safety group for interaction with him on safety actions for which the schedule shall be circulated before the month begins.
• Every month on each working day to have a safety round in specific area of the unit along with at least one safety department personnel and site staff, the schedule of which shall be circulated before the month begins.
• To personally appreciate one safety related action taken by him. HR to give the list in advance.

Sh. Ajay Tiwari
DOM Corporate-Safety

To realize the vision of Best – in-class in Safety, I shall:
• Bring best safety talent in the company
• Set the aspiring targets for the plant and help to achieve
• Understand the issues of the plant and help resolve
• Make self-available for the support

Sh. S D Vyas
General Manager - E&I
Chanderia

I commit to improve on safety culture by:
• A departmental level Safety training program improvement shall be organized for this year and the Critical routine operations shall be identified in Electrical works and suitable SOPs shall be prepared and trained.
• The Tool box talks carried before start of every task in all the shifts and the same are recorded day to day basis, at my responsible area of work.

Sh. Mukesh Deputra
General Manager - Coal
Chanderia

I commit to improve upon Safety culture by:
• The Tool box talks shall be carried before start of every task in all the shifts and this shall be recorded day to day basis, at my responsible area of work.
• Every week a meeting with the subordinates and contractors shall be carried on safety improvements at work site and the same will be recorded.
• A departmental level training program will be organized on "Team work".
• At the area of responsible Day to Day Housekeeping carried will be ensured and recorded.

Sh. K U Kirange
Sr. General Manager - TPP
Chanderia

I commit to improve upon Safety culture by:
• The tool box talks carried before start of every task in all the shifts and the same are recorded day to day basis, at my responsible area of work.
• Demonstrating to adherence of PPE and the needs will be ensured at my work place, the needs will be arranged within the first quarter of the year.
• All the work related Work permits followed at all area of responsible will be ensured and recorded always.
• All routine operation work's Standard operating procedure will be prepared and trained before of this year ending, at my area of responsible.

Sh. S P Jagetiya
DOM - TPP
Chanderia

I commit to improve safety culture by:
• NTPP Area will be bifurcated to small areas. Improvement in working, safety as well as housekeeping Weekly one area will be taken up and before & after report will be generated. Visit will be carried by myself, NTPP Safety officer, maintenance & Operation In-charge.
• I will be interacting with 02 persons with whom we are not interacting on regular basis on alternate day. Report will be made for the same.
• During Job allocation to any person thorough details about the Job will be imparted to workmen/ engineer by myself & my other team members on daily basis at point of time

Sh. Vivek Mathur
DOM - TPP
Chanderia

I commit to improve safety culture at WHRS area as:
• For major activities, SOP / SWP and OCPs shall be prepared and trained those to carry the work safely before ending of this year end 2020.
• Job safety analysis will be carried for all the Work permits issued and recorded.
• Departmental level - safety suggestions box, Near miss reporting, unsafe conditions reporting register shall be maintained and recorded.
• Compliance of ISO 45001, HIRA and OSH connect related shall be ensured and recorded.
• Demonstrating of adherence of PPE and will be ensured at my work place, the needs will be arranged within the first quarter of the year.
• At the area of responsible Day to Day Housekeeping carried will be ensured and recorded.
• Visible Safety culture development shall be carried by displaying the Safety posters, signage, caution and informative displays at suitable places within the quarter of this year.
• 100% work force participation on safety trainings and committee meetings shall be adhered and recorded.

Sh. J P Bhuria
DOM - Mechanical
Chanderia

I commit to improve upon Safety culture by:
• Ensuring the Tool box talks carried before start of every task in all the shifts and the same are recorded day to day basis, at my responsible area of work, and recorded.
• All the work related Work permits followed at my area of responsible will be ensured and recorded always.
• All routine operation work's Standard Operating Procedure shall be prepared and trained before of this year ending, at my area of responsible.

Sh. R K Sharma
GM - Production
Chanderia

I commit to improve upon Safety culture by:
• Ensuring the Tool box talks carried before start of every task in all the shifts and the same are recorded day to day basis, at my responsible area of work, and recorded.
• Demonstrating to adherence of PPE and will be ensured at my work place, the needs will be arranged within the first quarter of the year.
• All the work related Work permits followed at my area of responsible will be ensured and recorded always.
• All routine operation work's Standard operating procedure will be prepared and trained before of this year ending, at my area of responsible.

Sh. G L Palod
DOM - Production
Chanderia

I commit to improve safety culture by:
• Demonstrating to adherence of PPE and the needs will be arranged within the first quarter of the year.
• All routine operation work's Standard operating procedure will be prepared and trained before of this year ending, at my area of responsible.
• At the area of responsible Day to Day Housekeeping carried will be ensured and recorded.

Sh. Prem Chand Dhyaval
General Manager - S&S & Admin
Chanderia

I commit to improve Safety culture by:
• Ensuring the compliance of specific PPEs for all visitors entering the plant always.
• Ensuring the traffic marshals security guards in the time span of first quarter of the year 2020.
• Ensuring of specific PPEs adherence at all organized with in the first quarter of the year 2020.
• Perimeter security and safety shall be ensured by having one to one interaction shall be carried by self on timely scheduling and improvements shall be recorded.

Sh. D C Jagetiya
DOM - Production
Chanderia

I commit to improve on safety culture by:
• Demonstrating to adherence of PPE and the needs will be arranged within the first quarter of the year.
• On Day to day basis the responsible work area safety tour will be carried to rectify the identified unsafe conditions if any and the same will be recorded

Sh. M S Bhatti
DOM - Mechanical
Chanderia

I commit to improve safety culture at Crusher & DLBC by:
• At the area of responsible Day to Day Housekeeping carried will be ensured and recorded.
• The Tool box talks carried before start of every day to day basis, at my responsible area of work, safety tour will be carried to rectify the identified unsafe conditions if any and the same will be recorded.
• Safety meetings will be carried on weekly basis and recorded the improvements.
• All the work related Work permits followed at my area of responsible will be ensured and recorded always.

Safety Vision, Mission and Core Values



Safety Vision

To become the most admired and respected organization by ensuring safety and occupational health in a sustainable manner.

Safety Mission

To achieve the safety vision of being the best-in-class, MP Birla Group shall:

- Establish and implement safety and occupational health standards, governance mechanism and related infrastructure as required.
- Development of competencies through training and skills upgradation, leveraging digital technologies for all stakeholders.
- Engage all stakeholders, including contractors, on safety on a continuous basis and in an effective manner.
- Hold employees accountable for safety of all their actions and ensure operational discipline.



Safety Core Values



Safety First: Will passionately demonstrate commitment towards safety.



Focused Competency: Develop safety competency systematically to positively influence risk perception and learn from mistakes.



Accountability: Responsibility for all actions and deliver on commitments towards becoming the best-in-class in safety.



Empower People: Employees including contractors are empowered to intervene in any unsafe situation.

Details of Energy Awards

AWARD DETAILS	AWARD BY
Rajasthan Energy Conservation Award – 2019 Under cement category for excellent efforts in energy conservation	By Government Energy Department, Jaipur In December, 2019
Excellence in Energy Management – 2019 (Excellent Energy Efficient Unit Award)	By CII, Hyderabad In November, 2019
National Energy Management Award – 2019 For excellence in energy conservation	By SEEM, 2019
Best Improvement in Electrical Energy Performance 18-19	By NCCBM International In November, 2019
fly ash utilization, 1st Award, during “fly ash utilization conference 2019” 08 set of papers presented at NCCBM International seminar In November, 2019, regarding saving of energy / Plant initiatives.	By Mission Energy Foundation in February, 2019
Excellence in Energy Management – 2020 (Energy Efficient Unit Award)	Presented at NCCBM International seminar Dec, 2019 By CII, Hyderabad In Sep, 2020
Silver Award & SEEM National Energy Management Award – 2019 Indian Energy Enclave – 2019 for excellent efforts in energy conservation	By IICC, New Delhi In October, 2019
For fly ash utilization, 2nd Award, during “fly ash utilization conference 2020”	By Mission Energy Foundation in February, 2020
Gold Award & SEEM National Energy Management Award – 2020 Indian Energy Enclave – 2020 for excellent efforts in energy conservation	SEEM Delhi
For fly ash utilization, 2nd Award, during “fly ash utilization conference 2020”	By Mission Energy Foundation in February, 2020

Presented 08.0 Nos. of Technical Papers during NCCBM International seminar in Dec-2019.



Details of Energy Awards



Award from Govt. of Rajasthan (1st Prize)



Best EE reduction Award by NCCBM



Excellent energy efficient award by CII



Certificate of CII



Fly ash utilization Award, Feb-2020



Award at India Energy Conclave-2019



Thanks