CK BIRLA GROUP

ORIENT CEMENT

ORIENT CEMENT LIMITED, DEVAPUR UNIT

CII National Award for Excellence in Energy Management 2021

Great Place To Work® Certified APR 2020–MAR 2021 INDIA

Presentation Team:

Mr. Y. Padmaveer, AVP-Operations

Mr. Vijayapal Ratna, Sr Manager-Production

Mr. Shailesha Rajawat, Dy Manager-Process

Mr. Shiv Kant Pandey
President - Manufacturing

Mr. RVR Murthy
Sr. Vice President - Works

Mr. Y. Padmaveer
AVP- Operations

ORIENT CEMENT LIMITED - PLANT PROFILE

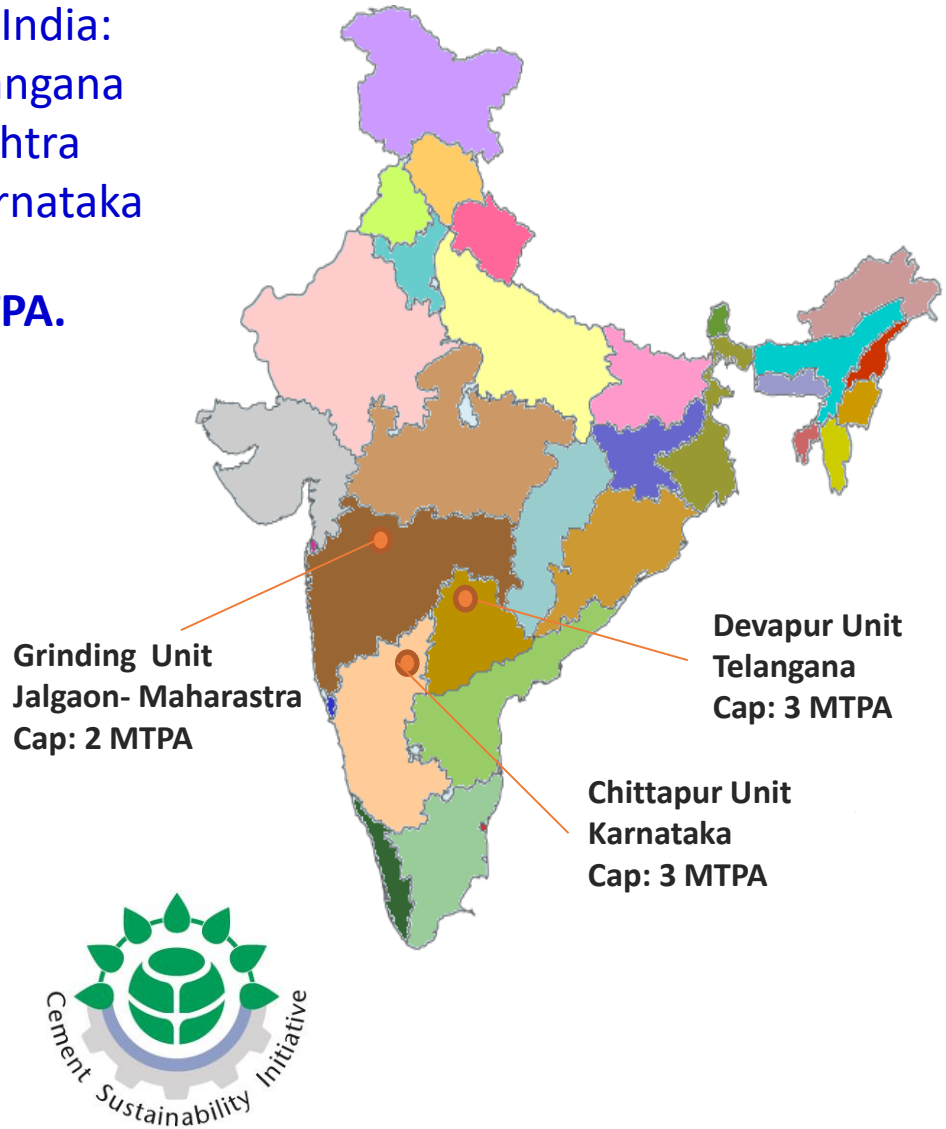
Orient Cement operating 3 Cement Plants in India:

- Integrated Plant (incl:CPP) - Devapur, Telangana
- Cement Grinding Unit - Jalgaon, Maharashtra
- Integrated Plant (incl:CPP) - Chittapur, Karnataka

Overall Capacity of Orient Cement is 8.0 MTPA.

Plant is certified with IMS:

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- ISO 50001:2018
- TPM-Phase I & II
- (Excellence and Excellence in consistent)
- NABL Accredited Quality Control Laboratory
- **Member of CSI (WBCSD)**
- **Green Pro certified by CII**



CAPACITY ENHANCEMENT – DEVAPUR UNIT

OUR VISION & VALUES

Vision

Build Sustainably to Be a Valued Partner in Progress.

Values

- **Collaboration**
- **Humility to Learn**
- **Walk the Talk**
- **Respect for All**
- **Agility with Speed**
- **Passion to Excel**
- **Celebrate Diversity**

1982
Plant Cap.: 0.45 MTPA

Line-I Plant

1990
Plant Cap.: 0.90 MTPA

Line-II Plant

1997
Plant Cap.: 1.18 MTPA

Line - I Internal modification

1999
Plant Cap.: 1.75 MTPA

Line - I Up gradation with PC

2009
Plant Cap.: 3.0 MTPA

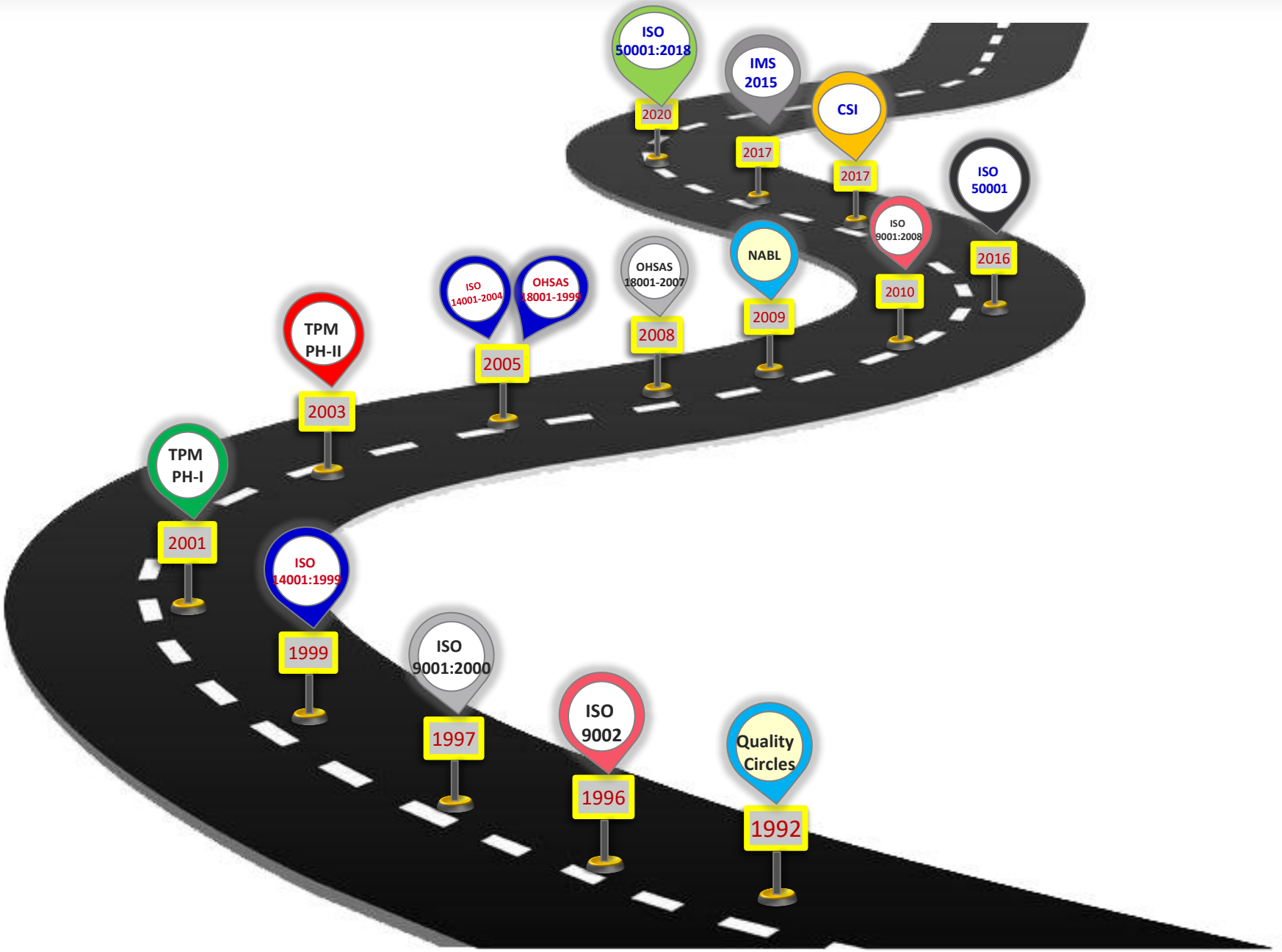
Line - III commissioned

CPP-50 MW Installation

ORIENT CEMENT

MILESTONES - DEVAPUR

Great Place To Work. Certified APR 2020–MAR 2021 INDIA



INTEGRATED MANAGEMENT SYSTEM POLICY

CK BIRLA GROUP

ORIENT CEMENT

ORIENT CEMENT LIMITED

INTEGRATED MANAGEMENT SYSTEM POLICY
(ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 & ISO 50001:2018)

Orient Cement Limited aims to be a leading company by providing consistent quality products and customer satisfaction through capabilities building, use of best practices, reliable relationships with all stakeholders and innovative cement products with a commitment to maintain environment friendly, safe, healthy and sustainability working condition in all its operations.

We are committed to:

- Operating the plant energy efficiently and increase the usage of alternative fuels & minimizing the energy losses;
- Complying applicable legal & other requirements;
- Protection of environment includes prevention of pollution by optimising the consumption, responsible sourcing, reuse and recycle;
- Eliminating hazards, reducing risks and exploring opportunities by continual improvement of all processes to enhance the IMS performance, professional development and knowledge sharing;
- Developing safety culture, safeguarding employees, workers, and their representatives from injury & ill health through their consultation and participation in safety assessment and adherence to PPE;
- Available information is utilised for enhancing objectives & targets with optimal resources.

SK PANDEY
PRESIDENT - MANUFACTURING

Date: 01.04.2019

DNV·GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 210226-2016-AE-IND-RvA | Initial certification date: 09 February 2017 | Valid: 09 February 2020 - 09 February 2023

This is to certify that the management system of

Orient Cement Limited

P.O. Devapur Cement Works,Mancherial - 504218, Telangana, India
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Energy Management System standard:
ISO 50001:2018

This certificate is valid for the following scope:
Manufacturing of Cement.

Place and date:
Barendrecht, 11 May 2020

MGMT. SYS. RvA C 029

For the issuing office:
DNV GL - Business Assurance
Zwolseweg 1, 2994 LB Barendrecht, Netherlands

Erie Koek
Management Representative

Lack of fulfilment of conditions as set out in the Certification Agreement may render this Certificate invalid.
ACCREDITED UNIT: DNV GL Business Assurance B.V., Zwolseweg 1, 2994 LB, Barendrecht, Netherlands. TEL:+31(0)102922689.
www.dnvgl.com/assurance

Impact of COVID 19

Impact on annual production performance:

- Reduced more than 27.23% in clinker and 25.33 % in cement compare with 2018-19.

Impact on Specific energy consumption (SEC):

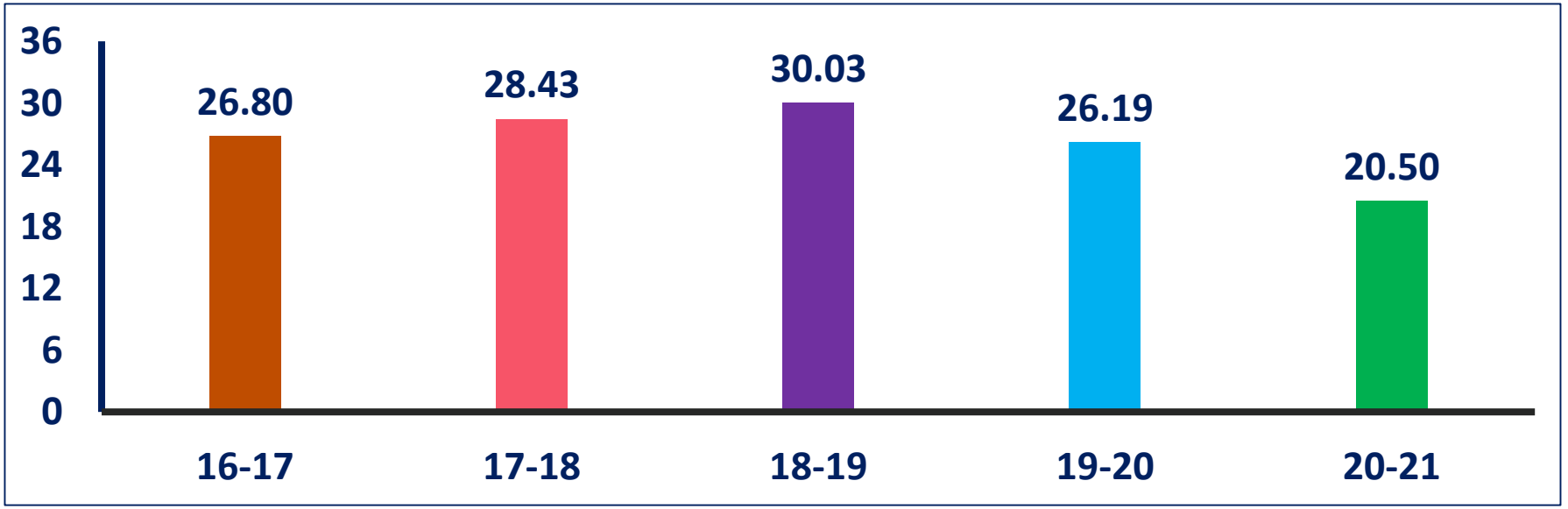
- No change in SEC

Measures taken by the plant/unit to address the challenges

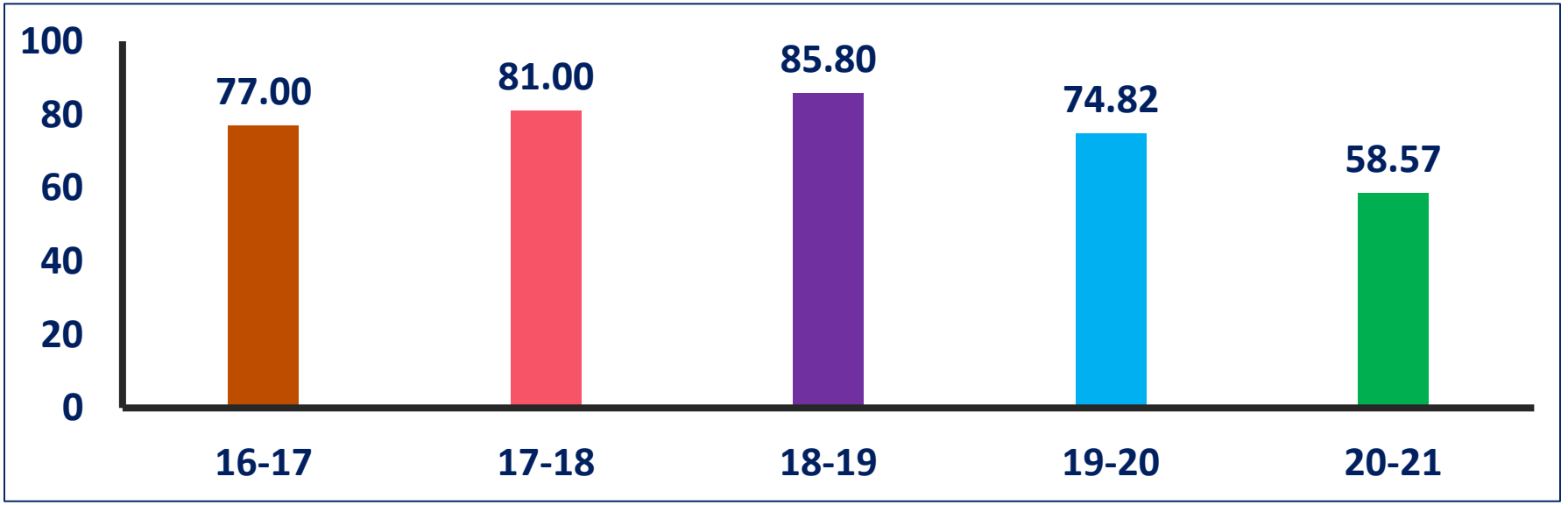
- Initiatives undertaken to improve capacity utilization
- Production planning rescheduled to improve the productivity
- Energy efficiency improvement measures undertaken

LAST FIVE YEARS PERFORMANCE

Clinker Production- Lac MT

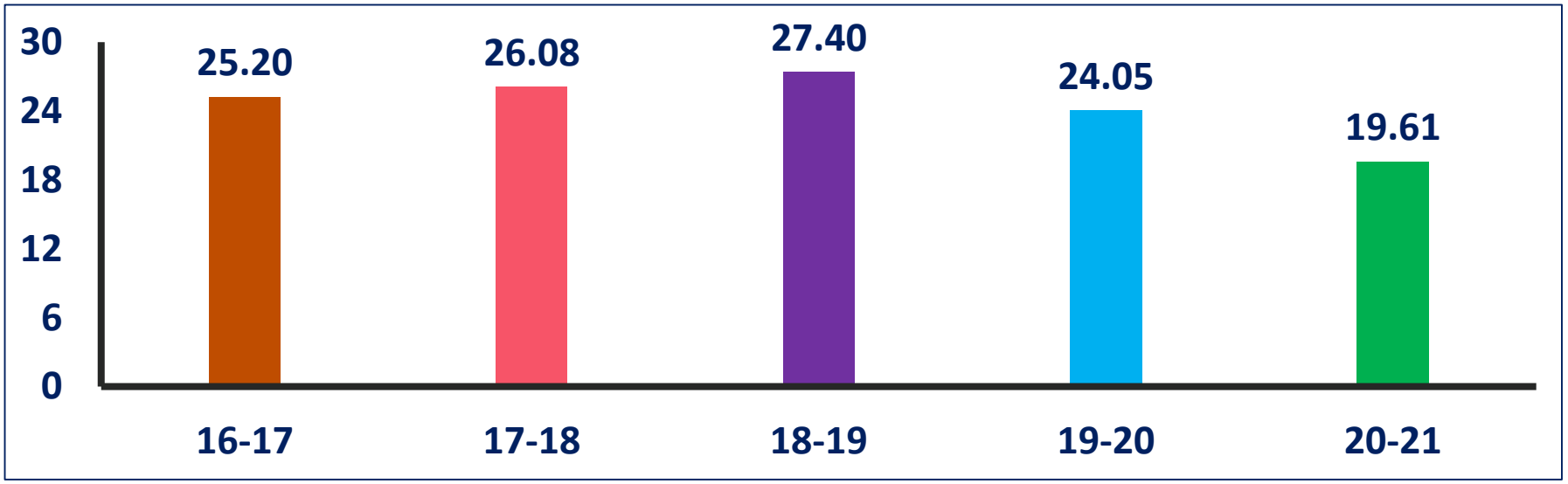


Capacity Utilisation % - Clinker

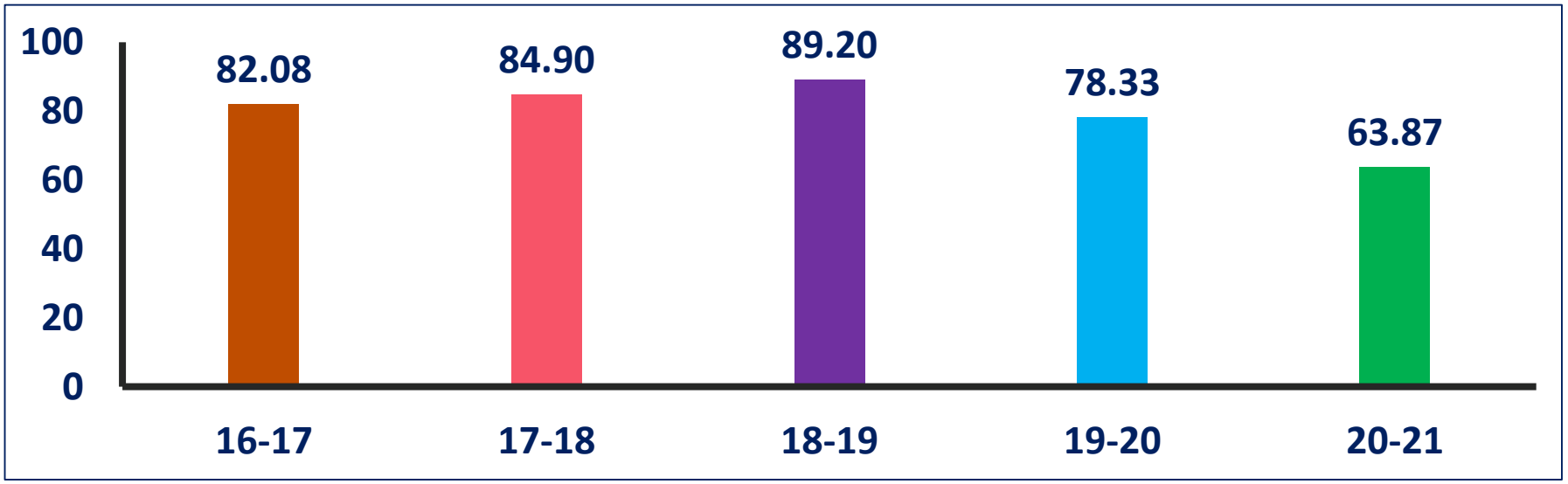


LAST FIVE YEARS PERFORMANCE

Cement Production- Lac MT

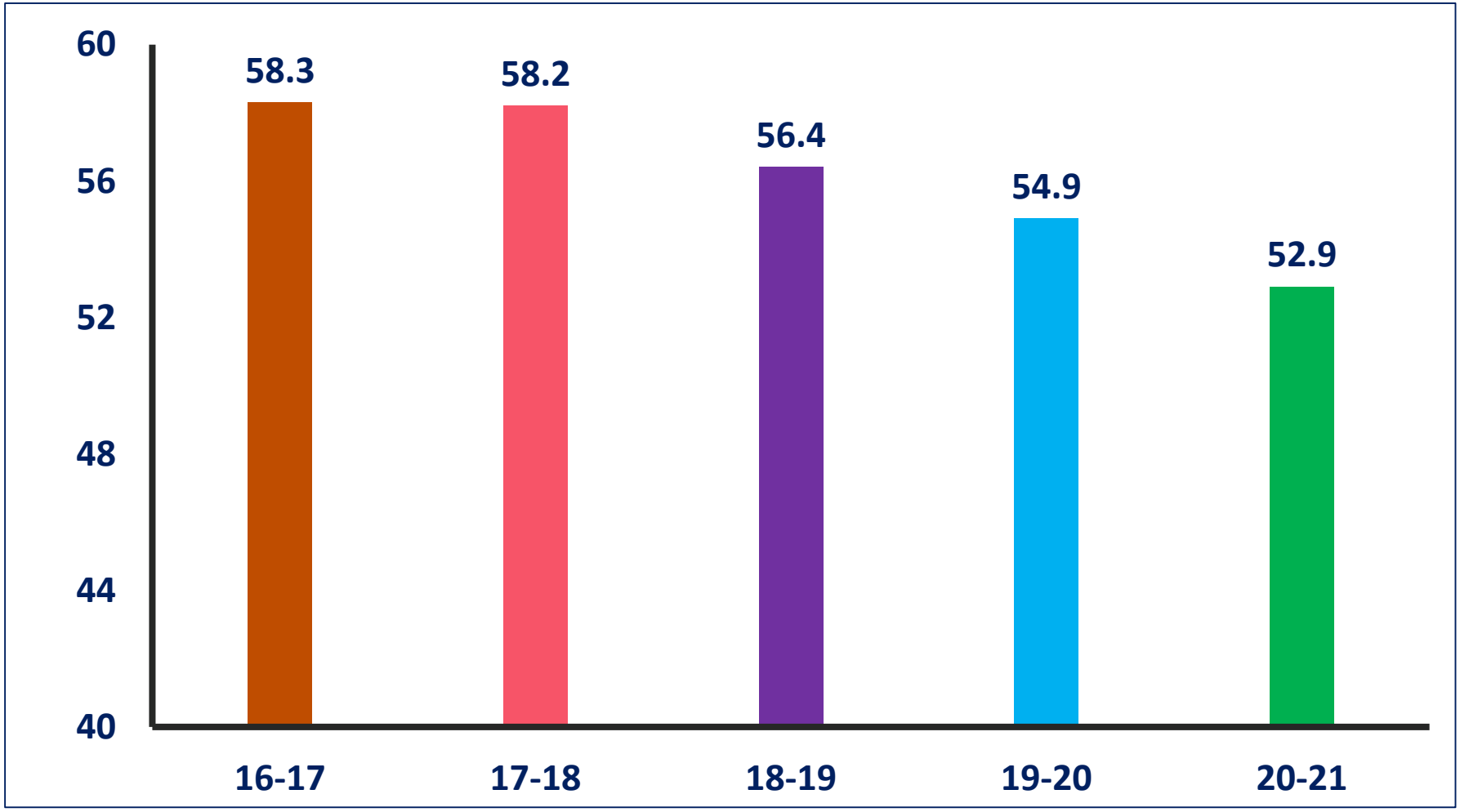


Capacity Utilisation % - Cement



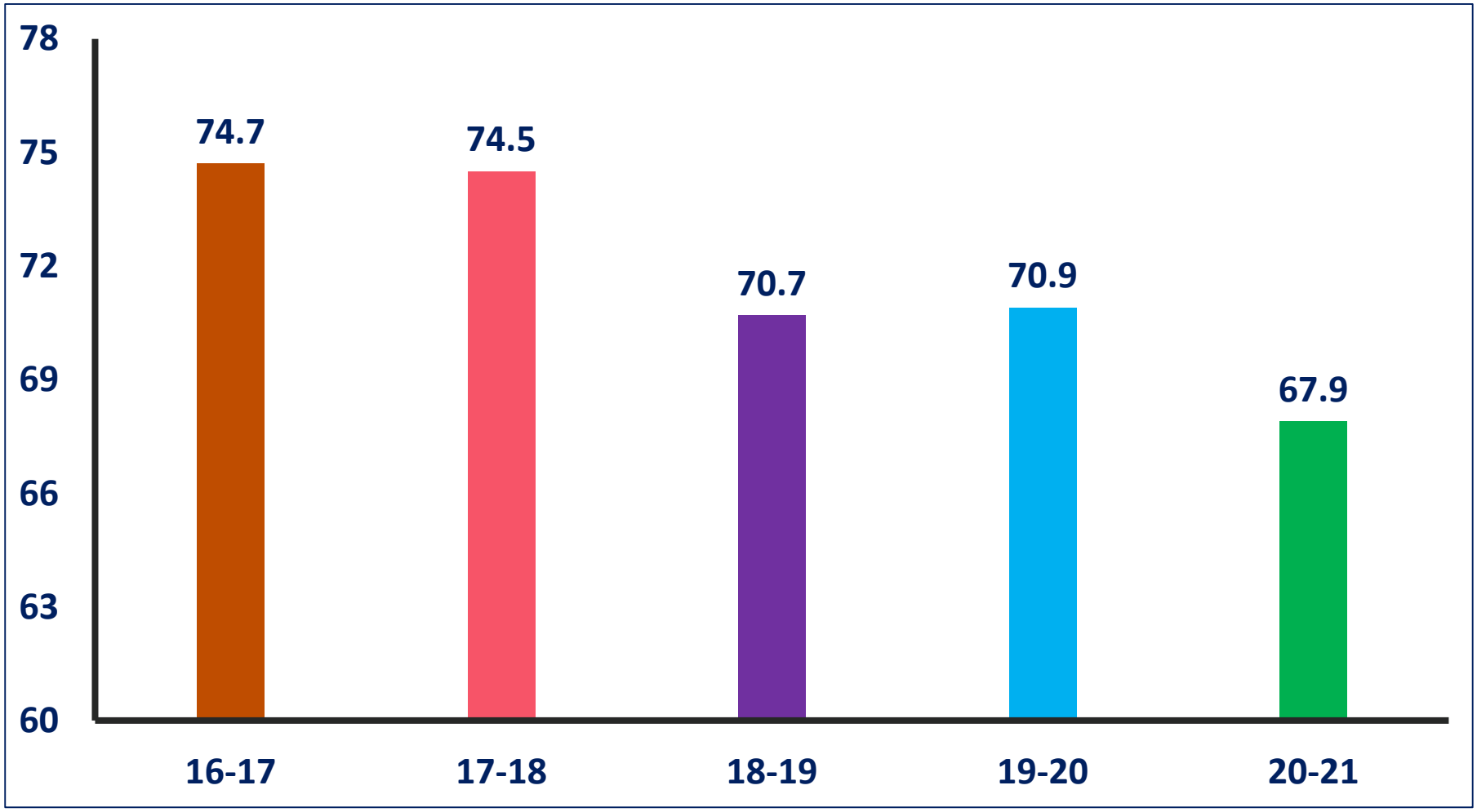
LAST FIVE YEARS PERFORMANCE

Sp. Power up to Clinker (Kwh/ MT)

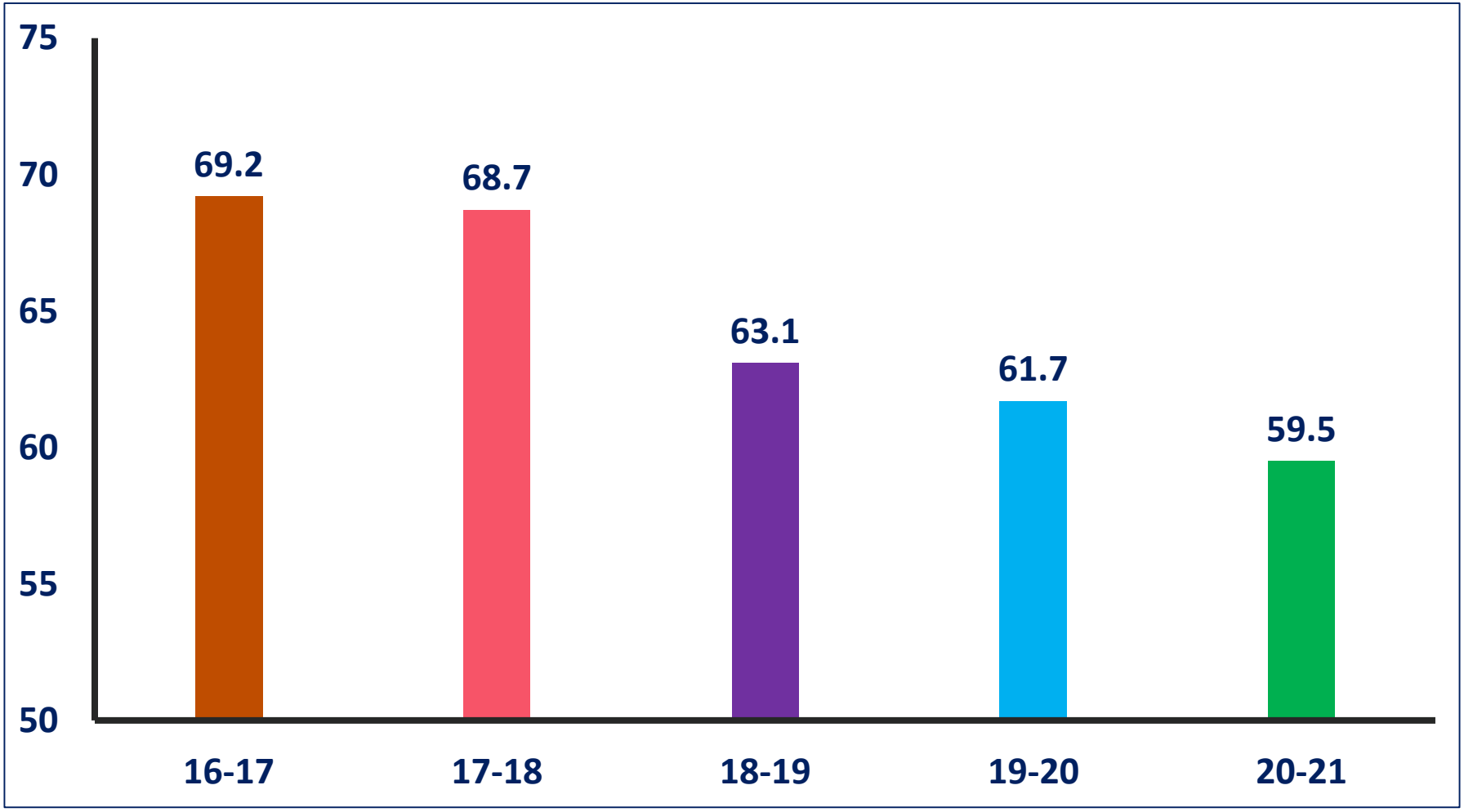


LAST FIVE YEARS PERFORMANCE

Sp. Power up to Cement (Kwh/ MT)

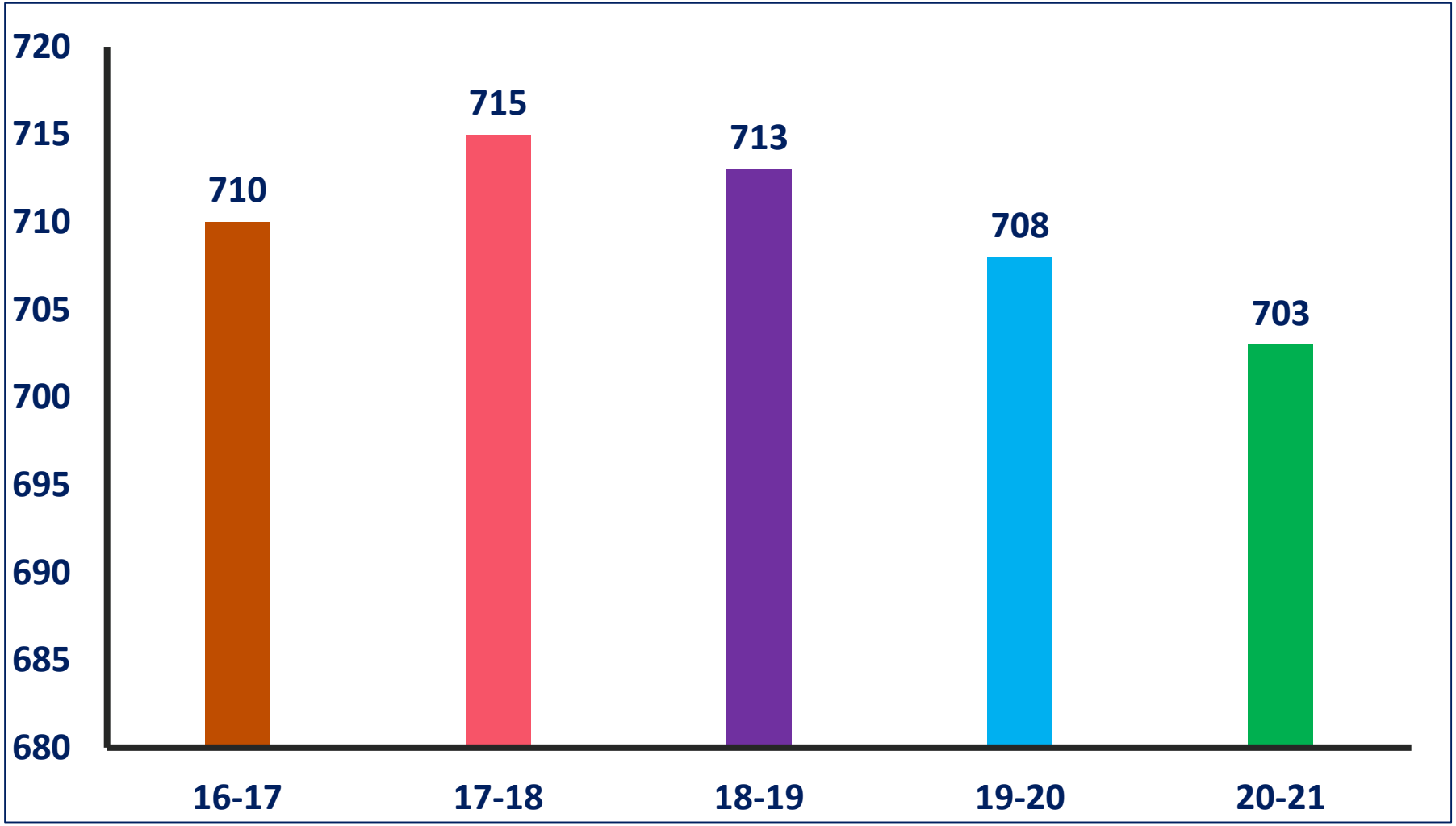


Sp. Power up to PPC (Kwh/ MT of Cement)



LAST FIVE YEARS PERFORMANCE

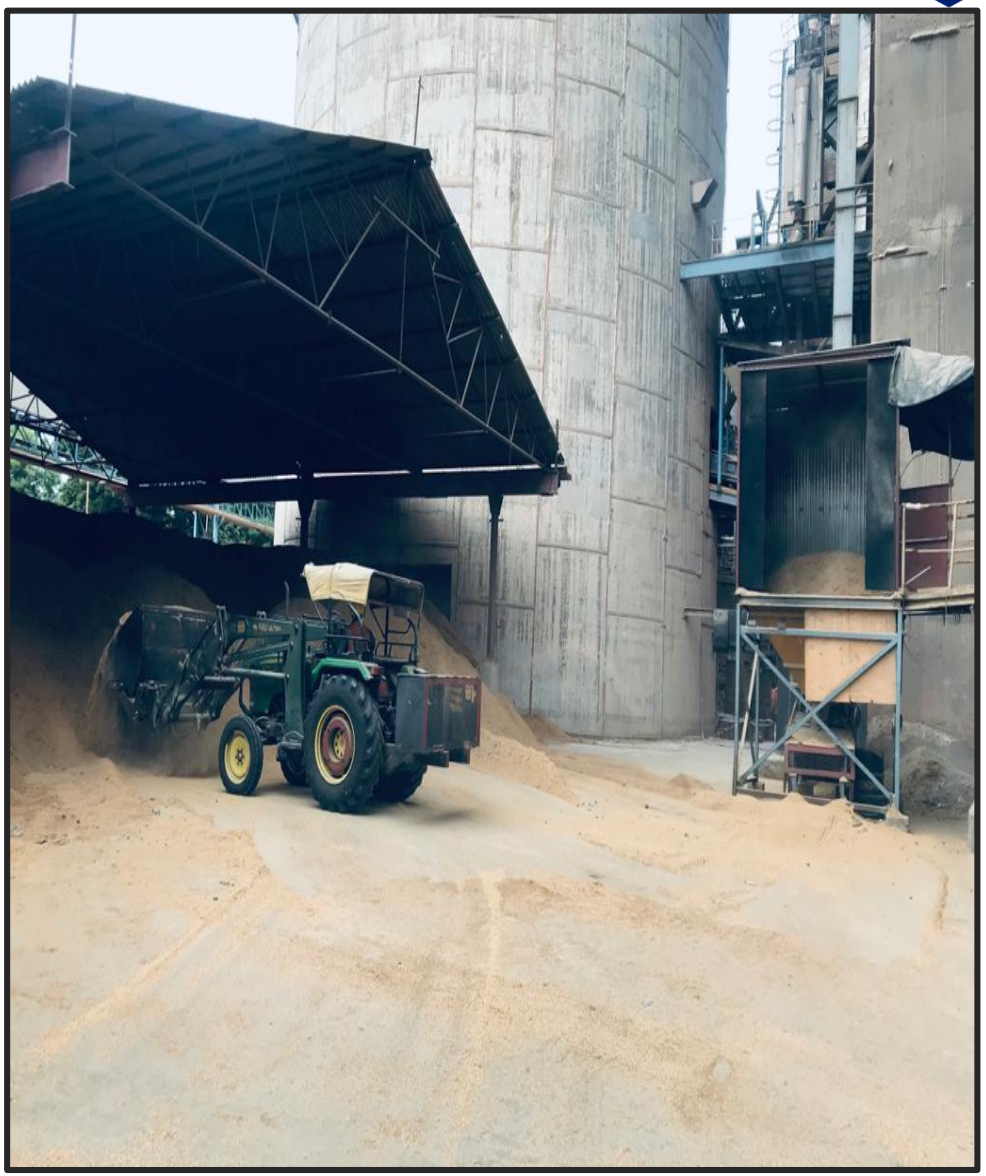
Specific Heat Consumption – Kcal/ Kg Clinker



USAGE OF ALTERNATIVE FUELS

- Rice Husk
- Cotton stalk
- Coconut fiber
- Wood chips
- Carbon Black
- Recovered waste
- Hazardous Waste

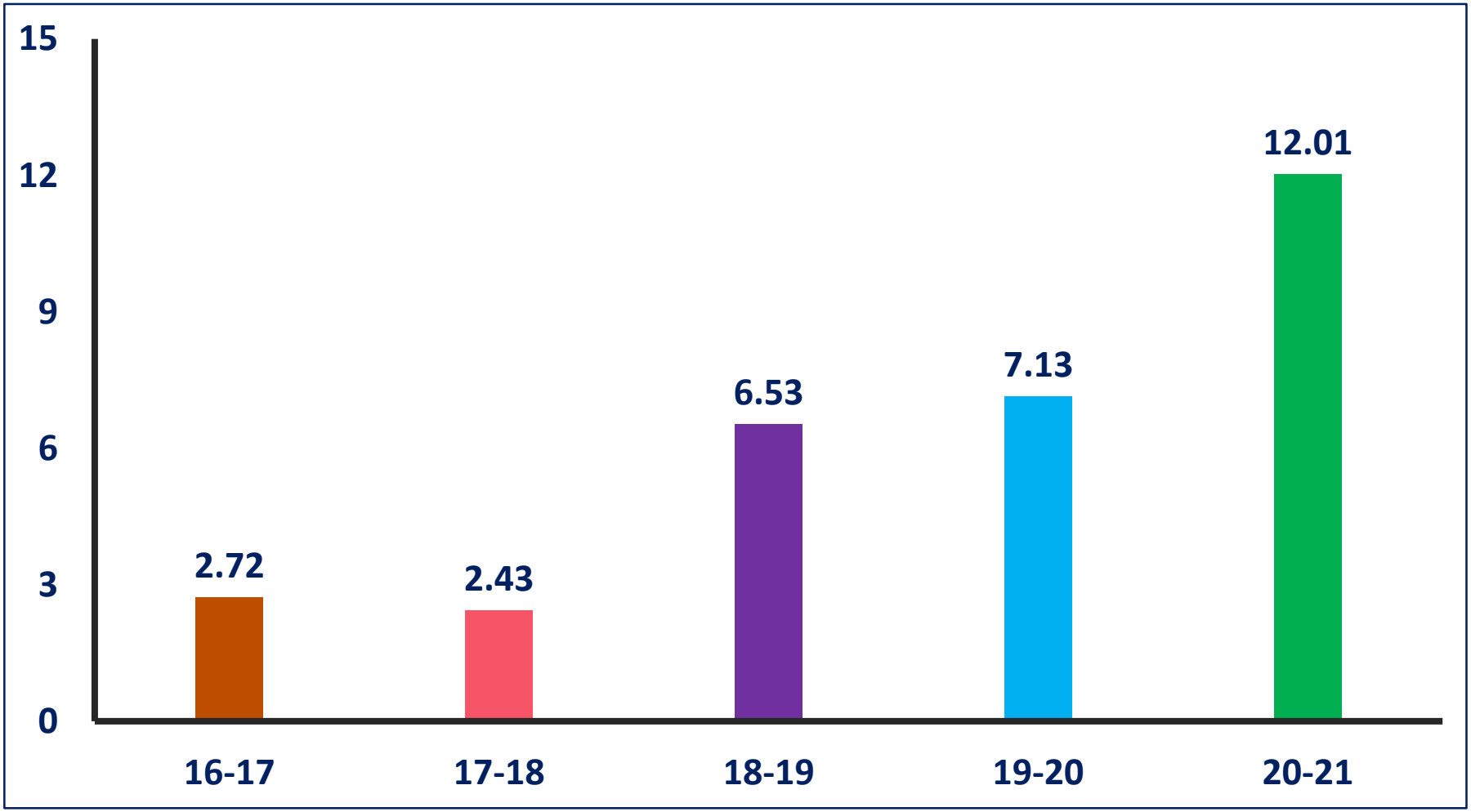
Plastic Shredder Machine



Rice Husk Feeding System

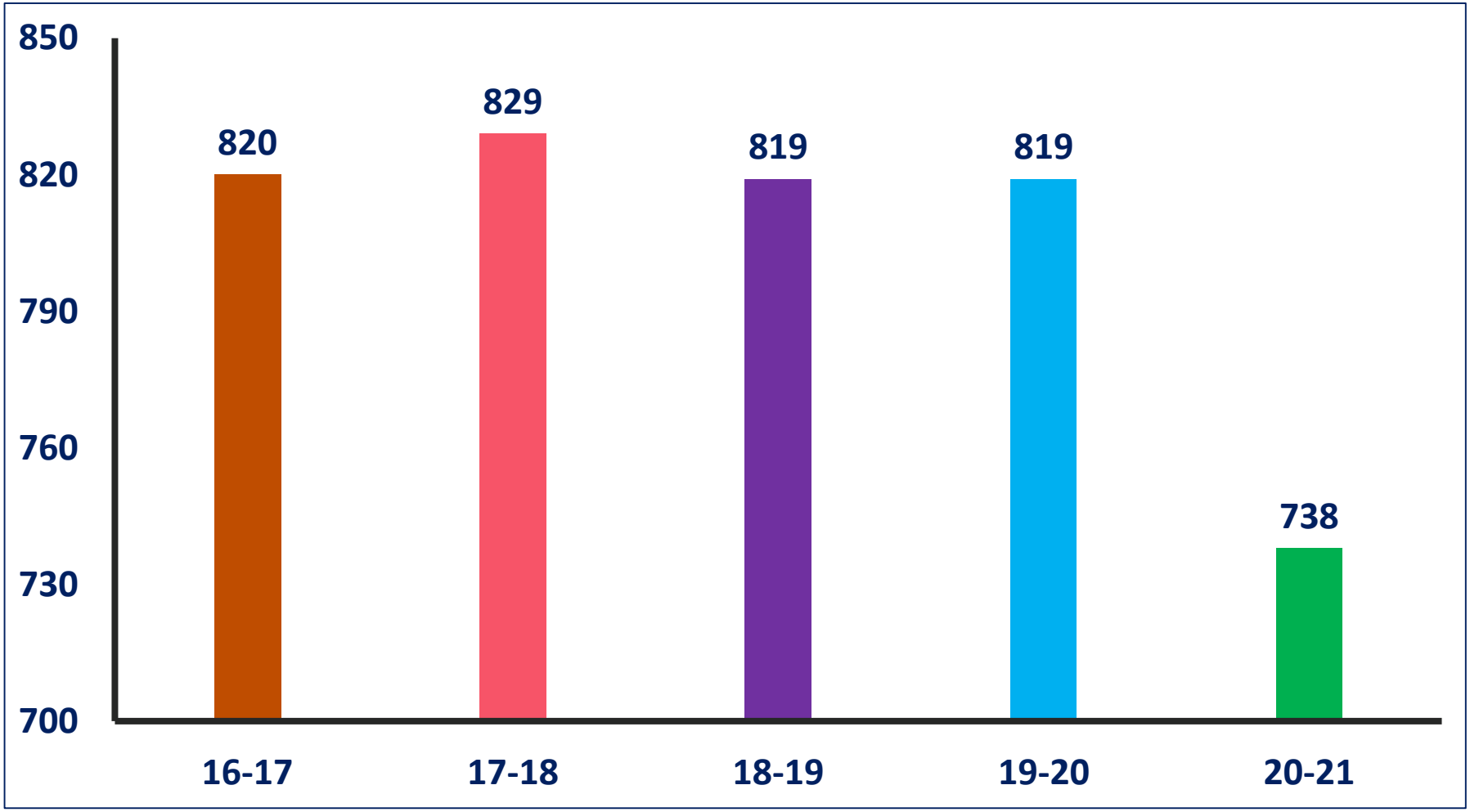
LAST FIVE YEARS PERFORMANCE

TSR %



LAST FIVE YEARS PERFORMANCE

CO_2 Kg/MT of Cement



Energy Saving projects implemented in last three years

Energy Saving projects implemented in last three years

Year	No of Energy saving projects	Investments (INR Million)	Electrical Savings (Million kWh)	Thermal Savings (Million Kcal/ MTOE)	Savings (INR Million)
FY 2018-19	12	0.89	1.877	0.0	7.51
FY 2019-20	11	2.71	1.845	0.0	7.39
FY 2020-21	19	1.02	3.645	0.0	14.6

ORIENT CEMENT

ENCON PROJECTS & ACHIEVEMENTS – 2020-21

Great Place To Work.

S. No.	Title of Project	Annual Electrical Saving (Units in Lakhs)	Thermal Energy savings (MT per annum)	Annual Savings (Rs. Lakhs)	Investment Made (Rs. Lakhs)
1	Optimisation of compressor in Kiln-3.	1.86	0.0	7.4	0.00
2	Modification of Rawmill-3 Main dust collector material discharge line.	0.59	0.0	2.4	0.1
3	Cementmill-1 Rollerpress discharge Bucket elevator venting bag filter Fan is converted from direct drive to V-belt drive.	0.32	0.0	1.3	0.2
4	Cementmill-1 541BC3 venting bag filter Fan is converted from direct drive to V-belt drive.	1.30	0.0	5.2	0.2
5	Cementmill-1 blender venting bag filter Fan is converted from direct drive to V-belt drive.	0.34	0.0	1.4	0.2
6	Cementmill-1 Mill discharge bucket elevator venting bag filter Fan is converted from direct drive to V-belt drive.	0.38	0.0	1.5	0.2
7	Cementmill-2 Mill main dust collector discharge airslide blower outlet duct modification.	0.14	0.0	0.6	0.1
8	Kiln-3 all Cooler fans inlet bell mouth modification.	15.36	0.0	61.5	1.4
9	Raw Mill-1 mill venting Dust collector discharge Line modification (Blower stopped).	0.25	0.0	1.0	0.3

ENCON PROJECTS & ACHIEVEMENTS – 2020-21

S. No.	Title of Project	Annual Electrical Saving (Units in Lakhs)	Thermal Energy savings (MT per annum)	Annual Savings (Rs. Lakhs)	Investment Made (Rs. Lakhs)
10	Reduced Number of bends in Return coarse airslide blower (Raw mill-3 91-067A).	0.021	0.0	0.1	0.1
11	Reduced Number of bends in Return coarse airslide blower (Raw mill-3 91-067C).	0.065	0.0	0.3	0.1
12	Reduced Number of bends in Silo feed BE airslide blower (Raw mill-3 91-084).	0.10	0.0	0.4	0.1
13	Kiln-1 all Cooler fans inlet bell mouth modification.	9.50	0.0	38.0	2.4
14	Installation of VFD for Kiln-1 Cooler ESP and Motor changed from HT to LT.	3.80	0.0	15.2	0.1
15	Reduced Number of bends in Sepol Separator fine to Silo feed BE airslide blower (Raw mill-1 3059).	0.03	0.0	0.1	0.1
16	Installation of VFD in Line-1 VRM Dust collector Fan.	0.71	0.0	2.9	0.1
17	Installation of VFD in Line-1 Coal mill CA Fan.	1.02	0.0	4.1	2.5
18	Line-1 Cooler fan-1A relocated for outlet duct modification.	0.47	0.0	1.9	1.0
19	Line-1 Cooler fan-1B outlet duct modification.	0.23	0.0	1.0	1.0
Total		**36.54**	**0.0**	**146.2**	**10.2**

Total savings for the year 2020-21 : 146.2 Lakhs

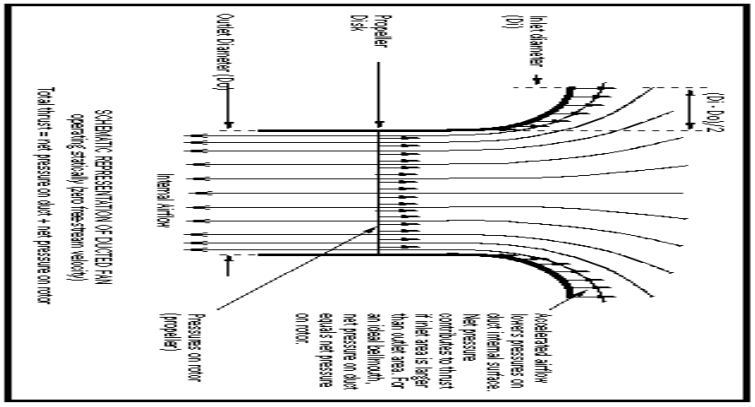
KILN - 1 & 3 Cooler Fans Inlet Mouth Modification

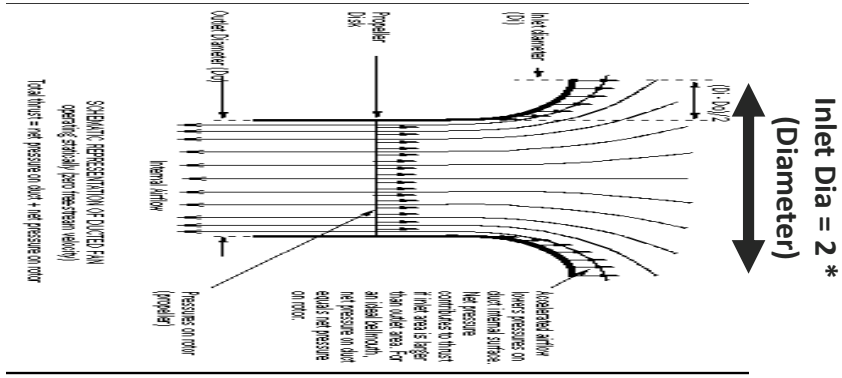
Problem:

- Kiln- 1 & 3 Cooler Fans Inlet pressure high.
- Power Consumption high due to pressure drop.

Action Taken:

- Process study was conducted by the internal team and after Detailed Discussions, Detailed Engineering with two models prepared with approval of President (Mfg), Unit Head, Sr GM (Prod) and Sr GM (Engg).





- Modification done in one fan with both designs, after observing the operational parameters the second model was considered and same modification was carried out for all other Cooler fans.

Benefits

- Total Average Power saving of Avg 194 Kwh in line -3 and Avg 120 Kwh in line-1.
- Cooler Inlet pressure reduced.

ORIENT CEMENT

Cooler Fans Bell Mouth Modification

Great Place To Work. Certified APR 2020–MAR 2021 INDIA

Before

After

ORIENT CEMENT

Kiln-3 Cooler Fans Bell Mouth Modification

Great Place To Work. Certified APR 2020–MAR 2021 INDIA

Date: 29.08.2020 Kiln Feed : 316 TPH

Description	Before Modification			After Modification			Savings (KW)
	Fan inlet pressure (mmwg)	Flow (m3/hr)	Power consumption (KW)	Fan inlet pressure (mmwg)	Flow (m3/hr)	Power consumption (KW)	
Cooler Fan 1	-20	28087	76	-5	34532	69	7
Cooler Fan 2	-69	72641	185	-11	79699	132	53
Cooler Fan 3	-75	65864	174	-10	78693	150	24
Cooler Fan 4	-50	62278	148	-13	74311	136	12
Cooler Fan 5	-47	53295	127	-5	54976	80	47
Cooler Fan 6	-40	51083	93	-4	41486	49	44
Cooler Fan 7	-17	28830	46	-3	32039	32	14
Total Savings (KW)							201

ORIENT CEMENT

Kiln-1 Cooler Fans Bell Mouth Modification

Great Place To Work. Certified APR 2020–MAR 2021 INDIA

Date: 07.12.2020 **Kiln Feed: 238 TPH**

Description	Before Modification			After Modification			Savings (KW)
	Fan inlet pressure (mmwg)	Flow (m3/hr)	Power consumption (KW)	Fan inlet pressure (mmwg)	Flow (m3/hr)	Power consumption (KW)	
Cooler Fan 1A	-156	23779	87	-21	20096	79	8
Cooler Fan 1B	-150	24866	89	-26	22952	82	7
Cooler Fan 2A	-85	14636	46	-9	16210	54	-8
Cooler Fan 2B	-45	18419	49	-16	21495	66	-17
Cooler Fan 1R	-70	17477	32	-9	16470	30	2
Cooler Fan 1S	-45	17324	49	-5	23427	34	15
Cooler Fan 2L	-70	23296	73	-9	24861	46	27
Cooler Fan 2R	-115	24141	42	-20	37540	54	-12
Cooler Fan 2S	-55	16291	29	-9	18612	24	5
Cooler Fan 3	-60	43570	64	-2	35887	40	24
Cooler Fan 4	-33	45071	79	-2	41012	42	37
Cooler Fan 5	-25	34443	50	-1	27977	18	32
Total Savings (KW)							120

Innovative Idea Implementation

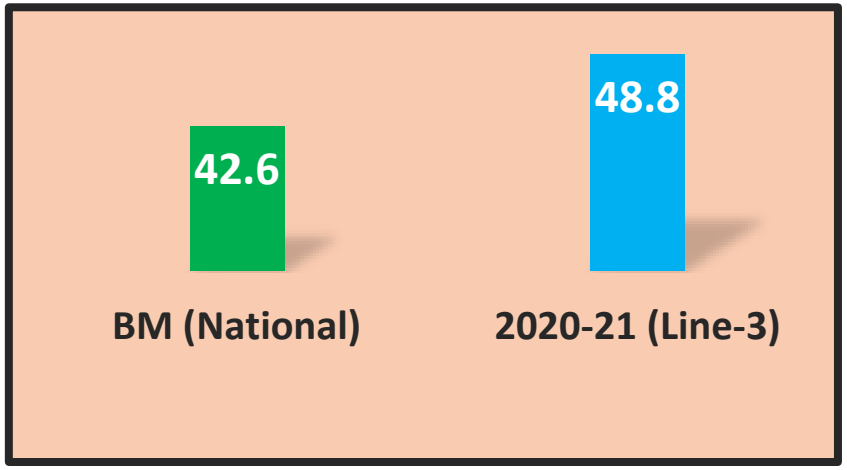
Installation of VFD for Kiln-1 Cooler ESP Fan and Motor changed from HT (350KW) to LT (200KW).

Description	UOM	Before modification	After modification
Volumetric flow	m3/hr	277748	285726
Power consumption	KW	107	59
Fan RPM	RPM	60% Damper	580 RPM
Total Power saving	**KW**	**48**	

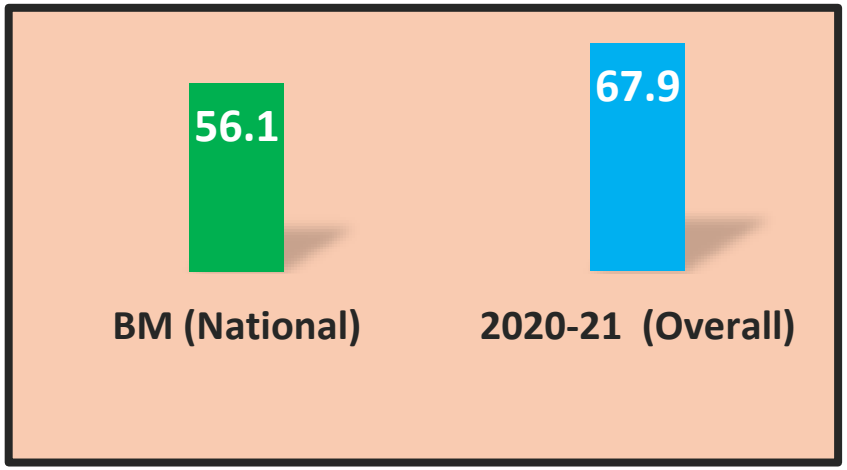
Total Power Savings : 48 Kwh

Comparison with Global Benchmark Data

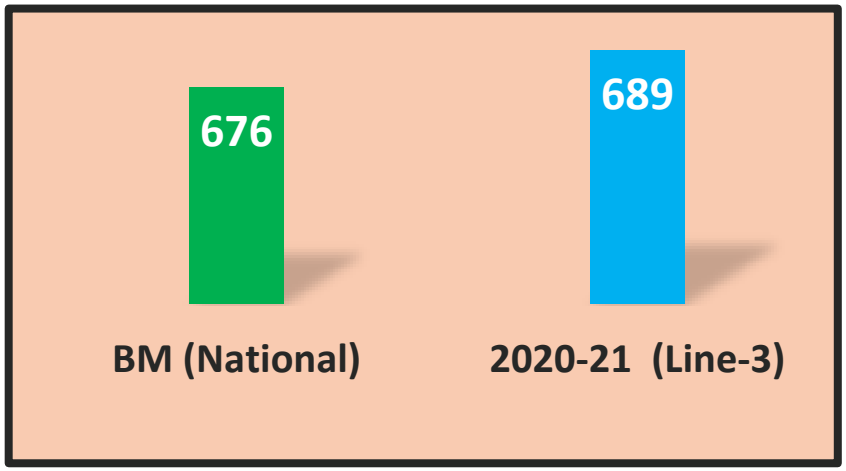
Sp. Energy Consumption to Clinker – KWh/MT



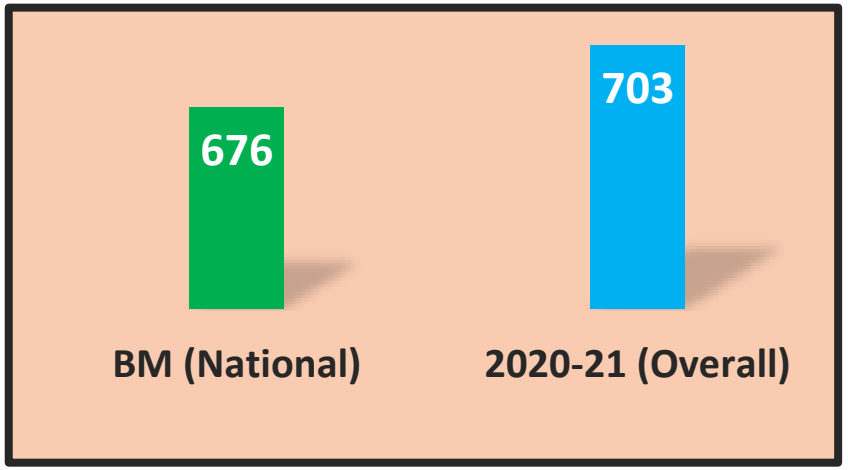
Sp. Energy Consumption Up to Cement – KWh/MT



L-3, Sp. heat Consumption – KCal/ Kg of Clinker



Overall Sp. heat Consumption – KCal/ Kg of Clinker



ROAD MAP FOR REDUCTION OF ENERGY CONSUMPTION

1. Replacement of existing Cooler with latest generation Cooler Line-1 & 2.
2. Study & upgradation of process fans.
3. Replacement of existing separators with new generation separators in Cement Mill-1.
4. Installation of WHRS for three kilns.

Planned Energy Conservation Projects–2021-22

S. No	Energy Saving Proposals	Electrical energy saving per annum (Units in Lakhs)
1	Cementmill-1 New dynamic separator replaced in place of Sepol and VSK separator	27.95
2	Optimisation of cooler fans in Kiln-2	2.37

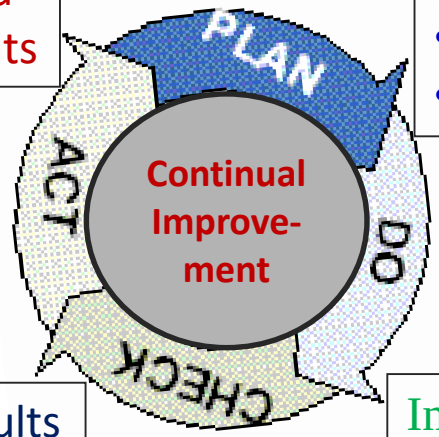
Future aspects for Green Supply Chain Management :

- Usage of Hazardous waste.
- Usage of Rain harvesting water rather outsource.
- Usage of agro based waste.
- Ideas towards reduction of Carbon emissions.
- Adoption of automation technologies.
- Safety standards and reliability

IMPLEMENTATION & REVIEW PLAN

- Capturing of Energy consumptions
- Discuss and Compare
- Identify the Problem
- Identify Causes along with Actions/ solutions

Analyse and Act on results

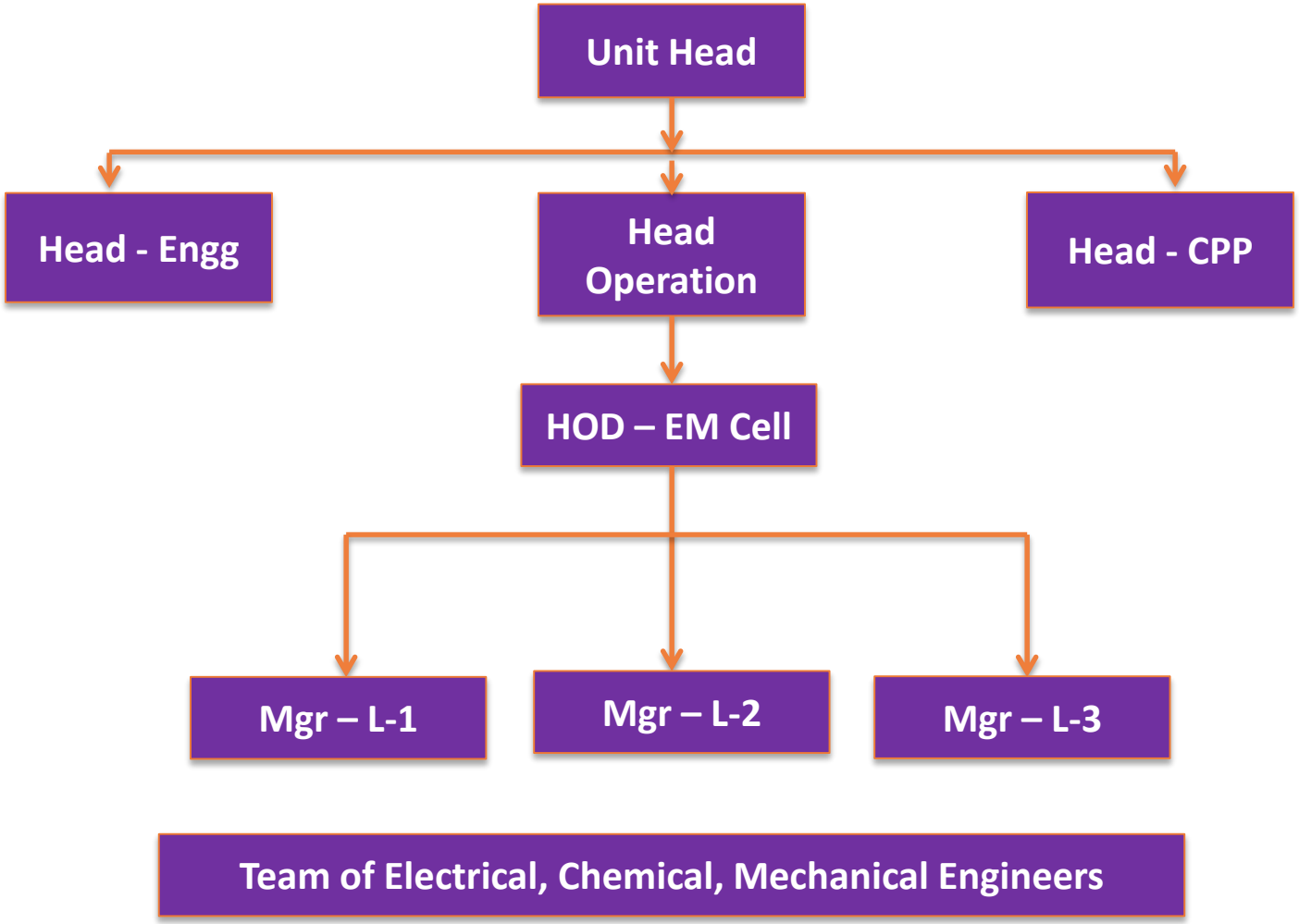


Implement solutions

Check for Results

A special team has been designated for monitoring of Energy consumptions. Electrical as well as Thermal consumption is been monitored on daily basis and highlighted to down the level. The daily Energy consumptions of concerned departments are discussed during daily review meeting. Actions and brain storming are done based on actual vs targets.

ENERGY MANAGEMENT CELL



ENERGY MANAGEMENT CELL

List of active members of Energy Management Cell within the organisation and their role Do you have a designated energy manager (need not be exclusive for energy) at your unit.

1. Mr. RVR Murty (EA-1944)
2. Mr. Y. Padmaveer
3. Mr. MNV Satyanarayana
4. Mr. Atul Kumar Agrawal
5. Mr. Vijayapal Ratna
6. Mr. Shailesha Rajawat
7. Mr. Mahesh
8. Mr. Sathish

Responsibilities of Energy Manger:-

a) Planning and Conducting Energy review meetings
b) Energy monitoring activities.
c) EnMS – ISO 50001, Documentation and compliance to standard.
d) Energy conservation projects
e) Conducting periodical Energy Audits
f) Create Awareness & training to employees on Energy conservation activities.
g) Compliance to PAT schemes etc.

Energy Management Activities:-

Activities are monitoring of section wise and main motors electrical consumption, Monitoring Thermal energy consumptions, Heat balance, Leakage monitoring, Suggesting new energy efficient equipments and modifications, Explore usage of alternative fuels, Conduct energy audits, awareness & training etc.

ORIENT CEMENT

Energy Management system installed for online capturing of all Energy consumption details of Major fans ,HT drives and above 75kW drives different departments and specific energy usages

ORIENT CEMENT

CK BIRLA GROUP

ORIENT CEMENT : DEVAPUR

DAILY POWER REPORT

Date: 20

EQPT./SEC.	UNITS	PROD	R.Hrs.	RATE	LOAD		* SP.ENERGY		KWH/T	ON DATE UNITS	OUTPUT	Run.	RATE	LOAD	SP
NAME	KWH	TONS		TPH	KW	%	ACT.	target	Var.	KWH	TONS	Hrs	TPH	KW	ENGY
MINES AUXILARY	2112						0.10	0.45							
LS CRUSHER TOTAL	26924						1.25	1.05							
LSC-3	**29036**	**21619**	**18.5**	**1169**	**1569**		**1.34**	**1.50**	**0.16**	**376971**	**276750**	**245**	**1128**	**1537**	**1.36**
RM-1 M.M (S)	34208				1425	75.02	5.94	5.50	-0.44	516560				1451	6.08
RM-1 M.M (N)	34440				1435	75.53	5.98	5.68	-0.30	522540				1467	6.15
SEPOL FAN	8494				354	68.06	1.47	1.33	-0.14	125076				351	1.47
VENT FAN	2760				115	46	0.48	0.39	-0.09	41055				115	0.48
POL. (E)	11284				470	90.42	1.96	1.91	-0.05	164681				462	1.94
POL. (W)	10076				420	80.74	1.75	1.63	-0.12	148118				416	1.74
B/E	2930				122	65.99	0.51	0.45	-0.06	39804				112	0.47
Other Aux withB/E & Sep	9093				379		1.58	1.61	0.03	135188				380	1.59
RM-1 Total	**113285**	**5760**	**24.0**	**240**	**4720**		**19.67**	**18.50**	**-1.17**	**1693022**	**84908**	**356**	**238**	**4754**	**19.94**
ESP-1	2980				124	55.18	0.80	0.76	-0.04	45901				123	0.84
PH-1	8041				335	67.01	2.17	2.30	0.13	119424				320	2.17
CLM-1M.M	5315	185	12.3	15	434	102.1	1.44	1.77	0.33	76948	2718	203	13	379	1.40
CLM-1 Aux. (M-11)	1244				102		0.32	0.37	0.03	18446				91	0.34
CESP-1	1201				50	25.02	0.32	0.80	0.48	17002				46	0.31
CLR FANS-1	12369				515		3.34	4.50	1.16	196511				527	3.58
PC FAN	15742				656	81.99	4.25	4.62	0.37	249784				670	4.55
VRM-MM	3469	278	22.4	12	155	77.43	0.94	1.08	0.14	61295	4077	359	11	171	1.12
VRM-D/C M.	3395				152	75.77	0.92	1.00	0.08	57505				160	1.05
VRM Aux.(MCC)	4075				182		1.10	1.00	-0.10	59682				166	1.09
Oth. Aux.	29143				1214		7.87	9.20	1.33	471686				1265	8.59
KILN-1 Total	**86973**	**3703**	**24.0**	**154**	**3624**		**23.49**	**27.40**	**3.91**	**1374184**	**54910**	**373**	**147**	**3684**	**25.03**
CM-1 MM (East)	19200				800	53.33	4.10	4.39	0.29	367080				804	4.17
CM-1 MM (west)	18300				763	50.83	3.91	3.91	0.00	350840				769	3.99
CM-1 AUX.(M-14)	1220				51		0.26	0.37	0.11	24494				54	0.28
CM-1 SEP MCC	1916				80		0.41	0.50	0.09	35380				78	0.40
CM-1 R. PRESS (East)	16740				698	69.75	3.58	3.54	-0.04	300730				659	3.42
CM-1 R. PRESS (West)	15510				646	64.63	3.31	3.42	0.11	286650				628	3.26
CM-1 R. PRESS SKS FAN	13290				554	86.52	2.84	2.93	0.09	252970				554	2.88
CM-1 R. PRESS Aux.MCC	17088				712		3.65	4.00	0.35	327999				719	3.73
Other auxi with comp.	14229				593		3.04	2.74	-0.30	230436				505	2.62
CM-1 Total	**117493**	**4680**	**24.0**	**195**	**4896**		**25.11**	**25.80**	**0.69**	**2176579**	**87986**	**456**	**193**	**4769**	**24.74**
RM-2 M.M.(S)	33420				1393	73.29	8.44	8.60	0.16	626680				1373	7.99
RM-2 M.M.(N)	34740				1448	76.18	8.77	9.10	0.33	651340				1427	8.31
RM-2 VENT FAN	10275				428	59.05	2.59	2.52	-0.07	195620				429	2.49
RM-2 AUX.(M-18)	4398				183		1.11	1.23	0.12	84582				185	1.08
other auxi with sep & HIC	2713				113		0.69	1.95	1.26	137642				302	1.76
RM-2 Total	**85546**	**3960**	**24.0**	**165**	**3564**		**21.60**	**23.40**	**1.80**	**1695864**	**78409**	**456**	**172**	**3717**	**21.63**
ESP-2	6291				262	87.38	2.32	2.40	0.08	126350				264	2.33
PH-2	24840				1035	75.55	9.17	9.90	0.73	493970				1034	9.11
CLM-2	7719	348	22.4		345	69.07	2.85	3.50	0.65	165971	6934	451	15	368	3.06
CLM-2 Aux. (M-25)	6471				290		2.39	1.80	-0.59	86825				193	1.60
CESP-2	2330				97	45.15	0.86	0.65	-0.21	48835				102	0.90
CLR-2	11590				483		4.28	4.50	0.22	231978				485	4.28
Oth. Aux.2	16388				683		6.05	6.75	0.70	327107				779	6.86
KILN-2 Total	**75628**	**2710**	**24.0**	**113**	**3151**		**27.91**	**29.50**	**1.59**	**1526036**	**54205**	**478**	**113**	**3194**	**28.15**
CM-2 MM (East)	31300				1304	72.45	6.52	6.36	-0.16	589270				1315	6.72
CM-2 MM (west)	30420				1268	70.42	6.34	6.17	-0.17	576200				1285	6.57
CM-2AUX.(M-28)	2180				91		0.45	0.47	0.02	37390				83	0.43
CM-2 R. PRESS (North)	17440				727	72.67	3.63	3.52	-0.11	318160				710	3.63
CM-2 R. PRESS (South)	16190				675	67.46	3.37	3.29	-0.08	293420				655	3.35
CM-2 R. PRESS SKS FAN	14344				598	70.31	2.99	2.97	-0.02	271127				605	3.09
CM-2 R. PRESS SKS SEP.	1597				67	21.12	0.33	0.4	0.07	33564				75	0.38
Oth auxi with fly ash	13300				554		2.77	3.32	0.55	273321				610	3.12
CM-2 R. PRESS (Total)	0	0	0.0				####		####	0	0	0			#####
CM-2 Total	**126771**	**4800**	**24.0**	**200**	**5282**		**26.41**	**26.50**	**0.09**	**2392451**	**87646**	**448**	**196**	**5337**	**27.30**
P.PLANT	11567	8863					1.31	**1.60**	0.29	239045	180091	0			1.33
RM-3 RP MOVABLE	28730				1263	70.16	4.17	4.43	0.26	568610				1247	4.13
RM-3 RP FIXED	29550				1299	72.16	4.29	4.22	-0.07	614270				1348	4.47
RM-3 SKS FAN	35870		23.0		1560	86.64	5.21	5.03	-0.18	725730				1592	5.28
RM-3 RP DISG B/E-NORT	3635				160	63.91	0.53	0.52	-0.01	73286				161	0.53
RM-3 RP DISG B/E-SOUT	3875				170	68.13	0.56	0.55	-0.01	78305				172	0.57
OTHER AUXILARY	12614				554		1.83	1.95	0.12	249005				546	2
RM-3 Total	**114274**	**6884**	**22.8**	**303**	**5023**		**16.60**	**16.70**	**0.10**	**2309206**	**137560**	**456**	**302**	**5066**	**16.79**
BAGHOUSE FAN	7483				312	32.82	1.59	1.90	0.31	144167				301	1.53
PRE HEATER FAN	24430				1018	61.69	5.19	5.79	0.60	497080				1037	5.27
KILN MAINDRIVE	9126				380	53.94	1.94	1.75	-0.19	175007				365	1.86
COOLER FANS	17120				713	37.76	3.63	4.65	1.02	338940				707	3.60
VRM MAIN DRIVE	9261	580	18.4	32	504	78.73	1.97	1.7	-0.27	167827	10129	328.3	31	511	1.78
VRM FAN	4734				258	46.83	1.01	0.86	-0.15	85907				262	0.91
VRM-3 AUX	1067				58	18.43	0.23	0.3	0.07	19952				60.8	0.21
OTHER AUXILARY	25836				1076		5.49	6.05	0.56	536347				1119	5.69
KILN-3 Total	**99057**	**4710**	**24.0**	**196**	**4127**		**21.03**	**23.00**	**1.97**	**1965227**	**94263**	**480**	**197**	**4098**	**20.85**
COM.SER.	6952									111328					
MAINTENANCE L1,L2&L	0									48512					
LOSSES	-1579									-25177					
COLONY	7146									135881					
TOTAL POWER	872150									16019130					
UP TO CLINKER (average)							**52.06**			0					**53.86**
UP TO CEMENT (average)							**77.06**			0					**78.19**
UP TO CEM. PPC (average)							**59.94**			0					**61.51**
UP TO CEM. HS PPC (average)							**0**								**76.39**
CPP Aux. From MRSS	0									0					
MINES DEWATERING PU	1246									25782					
POWER EXPORT	500									202300					

WAYFORWARD:

A Study is in progress to install Roof top solar panels (above Colony quarters) from our Corporate. Evaluation is under progress.

PROMOTIONAL ACTIVITIES - REWARDS FOR ENCON IDEA'S

Muchas Gracias Card & Good To Find :

ORIENT CEMENT LIMITED: DEVAPUR

CII

Confederation of Indian Industry

125 Years - Since 1895

21st National Award for

Excellence in Energy Management 2020

This is to certify that

Orient Cement Limited, Devapur

has been recognized as

"Energy Efficient Unit"

This acknowledgement is based on the evaluation by panel of judges at the "National Award for Excellence in Energy Management" held during 25 - 28 August 2020.

K S Venkatagiri
Executive Director
CII - Godrej GBC

Ravichandran Purushothaman
Chairman, Energy Efficiency Council
CII - Godrej GBC

"Excellence in Energy Management 2020" award as Energy Efficiency Unit by CII.
21st National Award (Virtual) Event held on 25 - 28 Aug 2020.

ORIENT CEMENT LIMITED: DEVAPUR

CII
Confederation of Indian Industry

20th National Award for Excellence in Energy Management 2019

This is to certify that

Orient Cement Limited
Devapur

has been recognized as

"Energy Efficient Unit"

This acknowledgement is based on the evaluation by panel of judges at the "National Award for Excellence in Energy Management" held during 16 - 18 September, 2019 at Hyderabad.

S Raghupathy
Deputy Director General
Confederation of Indian Industry

Meher Pudumjee
Chairperson, Energy Efficiency Council
CII - Godrej GBC

"Energy Excellence Award 2019" received from "CII" at Hyderabad on 18th Sep 2019

AWARDS & ACCOLADES

APEX INDIA EXCELLENCE AWARD 2019 in the Category of "Platinum" for Environment, **"Gold" for Safety and Energy Efficiency** received on 24th September 2019 at New Delhi.

ORIENT CEMENT LIMITED: DEVAPUR

SEEM NATIONAL ENERGY MANAGEMENT PLATINUM AWARD 2019

From SEEM received at Delhi on 27th September 2019

ORIENT CEMENT LIMITED: DEVAPUR

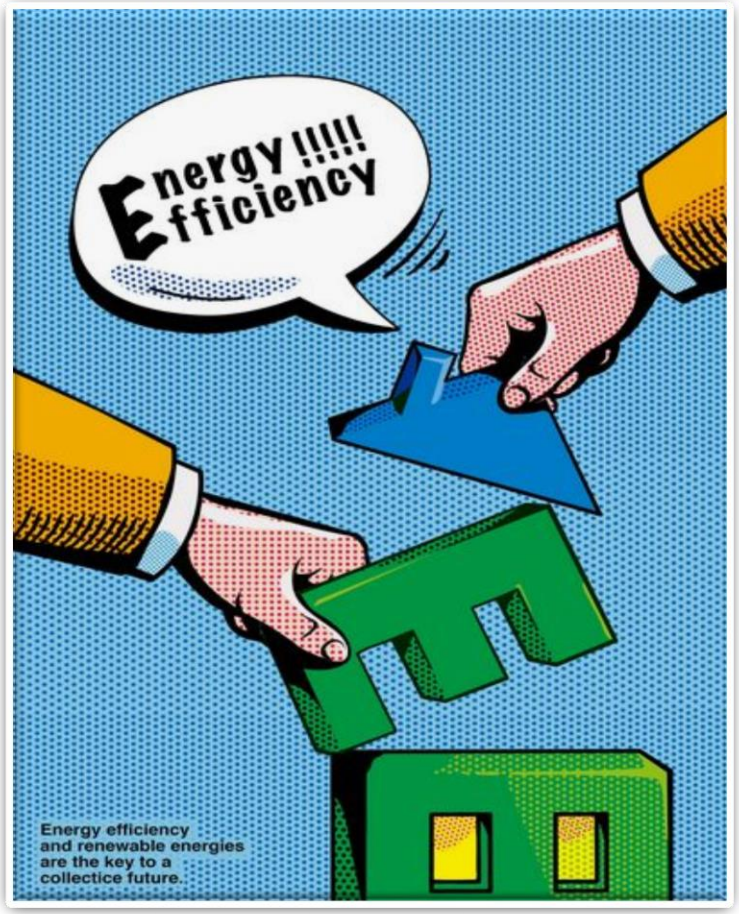
"Telangana State Energy Conservation Award" received on 20th Dec 2019

ORIENT CEMENT LIMITED: DEVAPUR

APEX INDIA EXCELLENCE AWARD 2018 in the Category of
" Gold " for Energy Efficiency received on 18th Feb 2019 at New Delhi.

ORIENT CEMENT LIMITED: DEVAPUR

APEX INDIA EXCELLENCE AWARD 2017 in the Category of **"Gold" for Energy Efficiency** received on 29th May 2018 at New Delhi.



Thank You