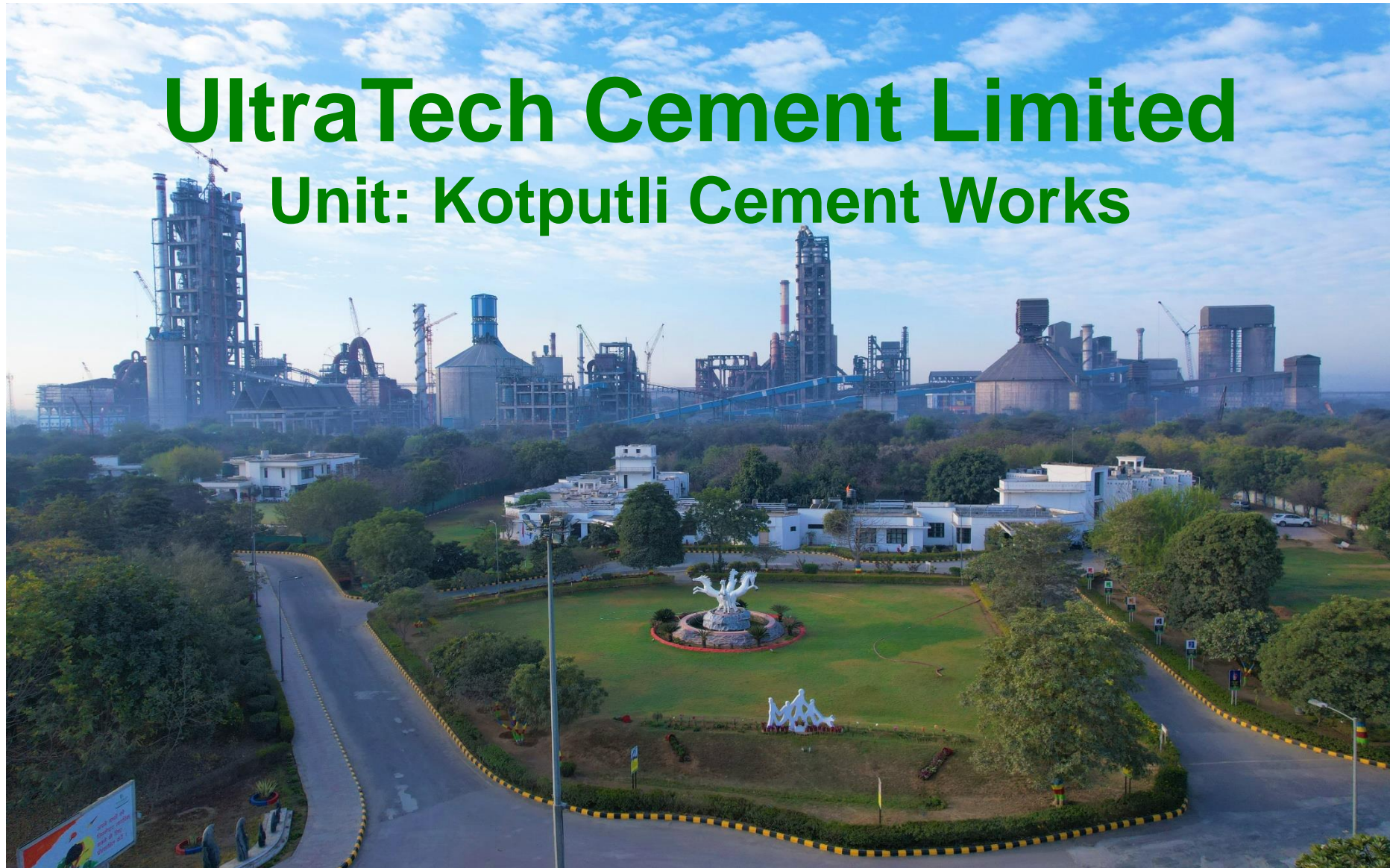


UltraTech Cement Limited

Unit: Kotputli Cement Works





**Ultratech Cement Limited
Kotputli Cement Works**

**Krishankant Parmar : Senior Manager
Sarita Yadav : Assistant Manager**

Introduction of Organization

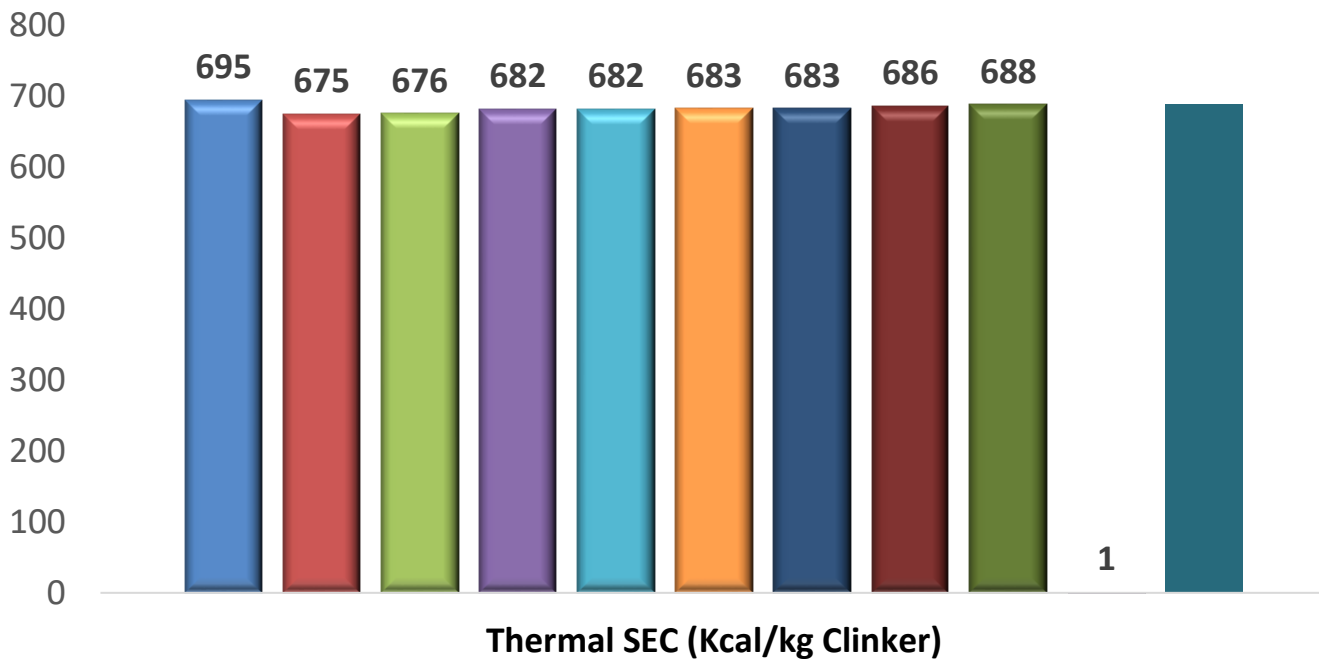


Equipment	Make	Model	Rated Capacity	
Lime Stone Crusher	M/s L & T Ltd	APCM-2022	1600 TPH	
Raw Mill	M/s Loesche GMBH	LM 69.6	735 TPH	Improved energy efficiency, Easy maintenance
Coal Mill	M/s Loesche GMBH	LM 43.4D	50 TPH for Pet Coke	
Cement Mill (2 Nos.)	M/s Loesche GMBH	LM 53.3 +3	2 * 215 TPH	
Kiln	M/s KHD GMBH	Size: 5.8 m Ø and 85 m long	8000 TPD on 100% Pet coke	
Six- Stage Pre-heater twin string	KHD GMBH	-	-	Enhanced heat & mass transfer
Pyro floor clinker cooler with roller crusher	KHD GMBH	-	-	High heat recuperation efficiency
Packer (8 Nos.)	M/s Haver Boecker	8 RS-E	120 TPH (Modified FY24)	
Turbine (02Nos)	M/s HTC	Condensing	23 MW	
WHRS Turbine	M/s Siemens Ltd.	Low Pressure Injection Type	12.9 MW	
Solar System		3	7.0 MWH	

KCW was commissioned in the year 2009 with clinker production capacity of 6.7 MTPA (10,000 TPD)

Symbol	Plant	Nos
■	Integrated Units	23
▲	Grinding Units	23
D	White Cement & Putty Units	03
◆	Jetty	04
●	Bulk Terminals	07

Thermal Energy Performance



■ Kotputli Cement Works ■ Plant-1 ■ Plant-2
■ Plant-3 ■ Plant-4 ■ Plant-5

Electrical Energy Performance

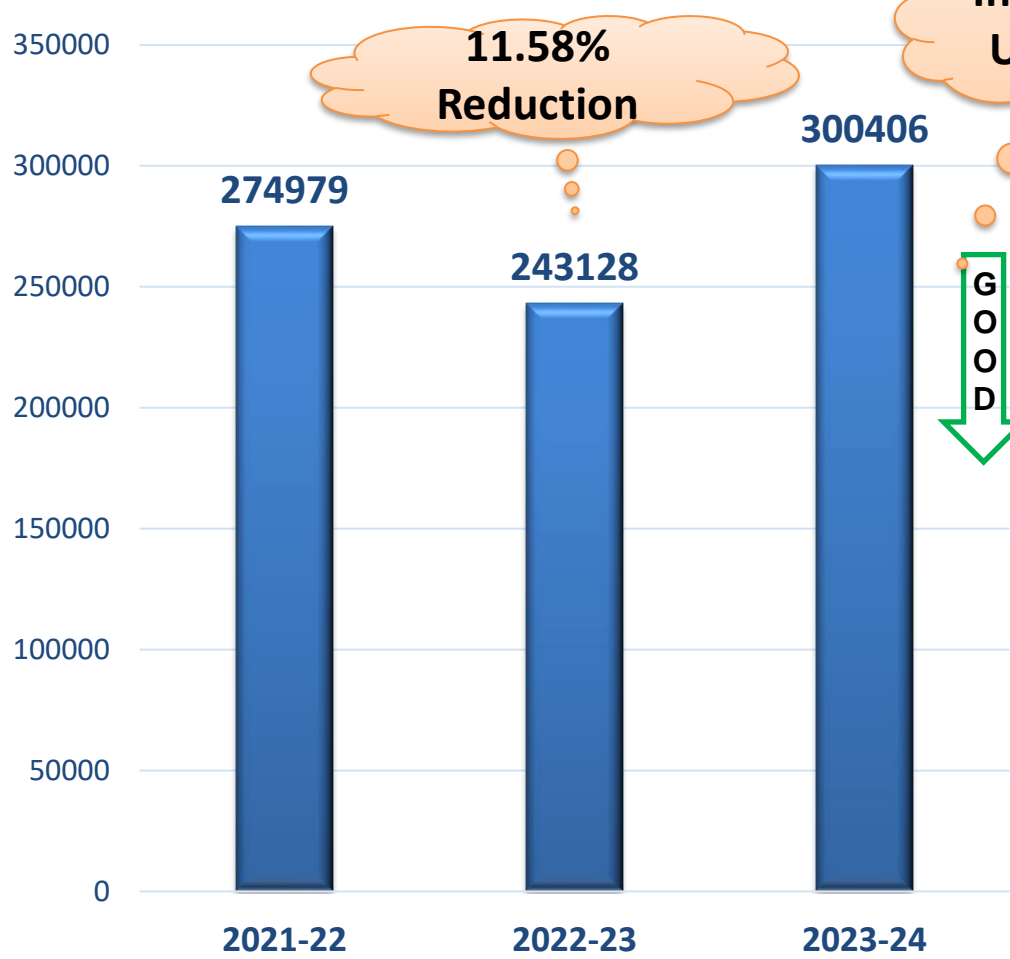
Lowest Raw Mill Power Consumption - 11.75 KWh/ MT (Bestever in KCW)

One of the Lowest Packing Power of 0.82 KWh/MT with multi grade loading

CII Energy
Benchmarking
V6-2023

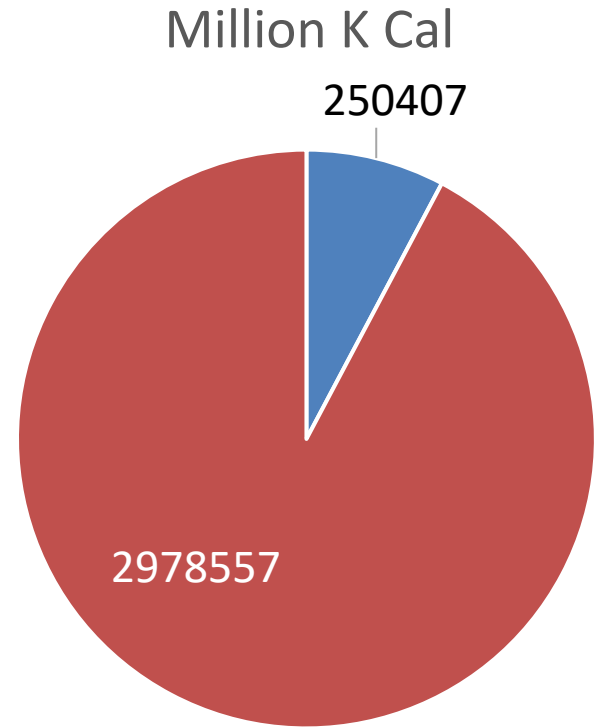
Unit Energy Performance

Total Energy Consumed (MTOE)



■ Total Energy Consumed (MTOE)

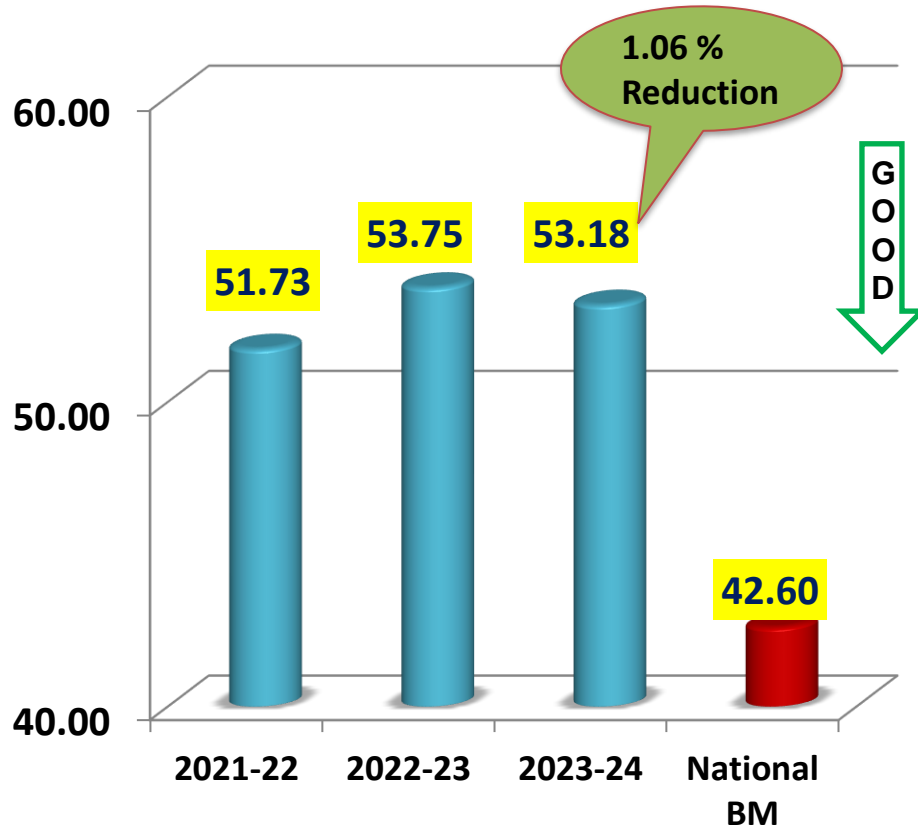
Breakup of Total Energy Consumption



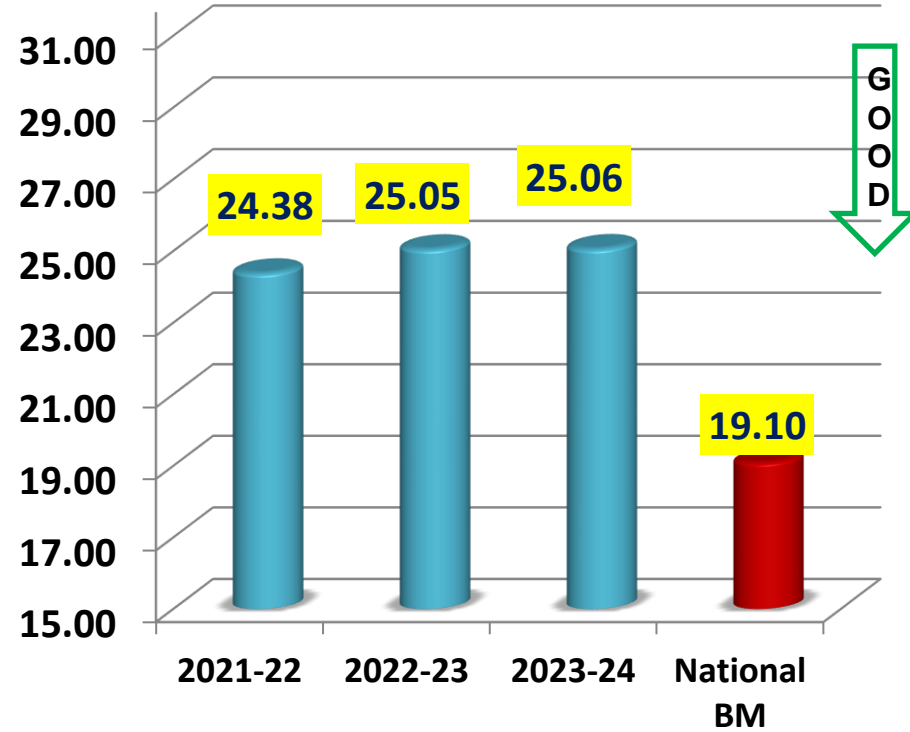
■ Electrical Energy ■ Thermal Energy

Unit Energy Performance

Specific Power Up to Clinkerization (KWh/ MT Clinker)

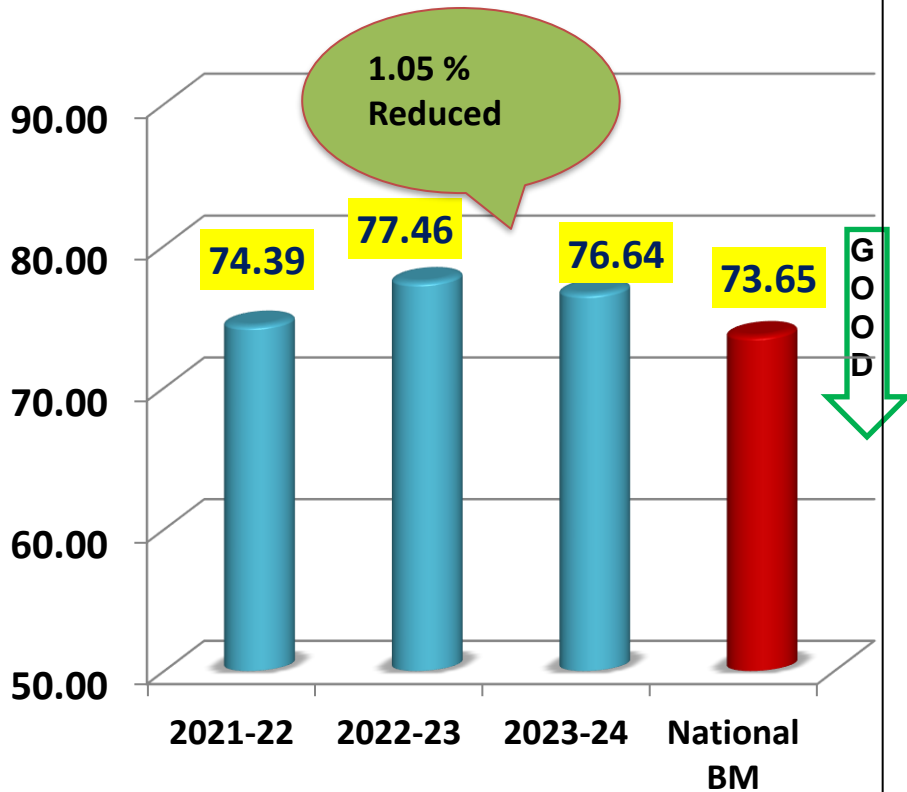


Specific Power Kiln(KWH/MT CLK.)

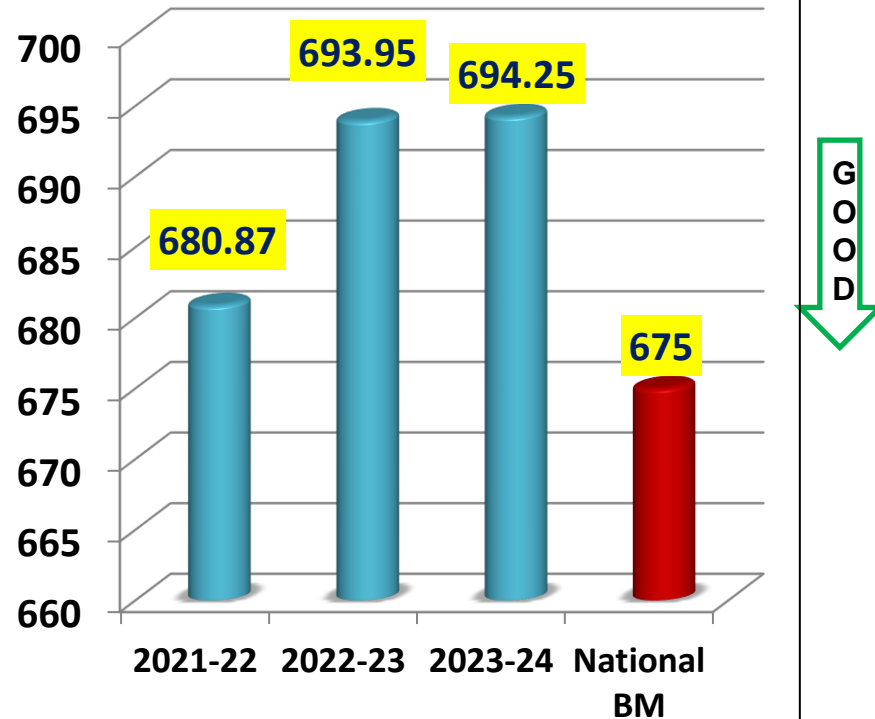


Unit Energy Performance

Overall Specific Power Consumption (KWh/MT of Cement)



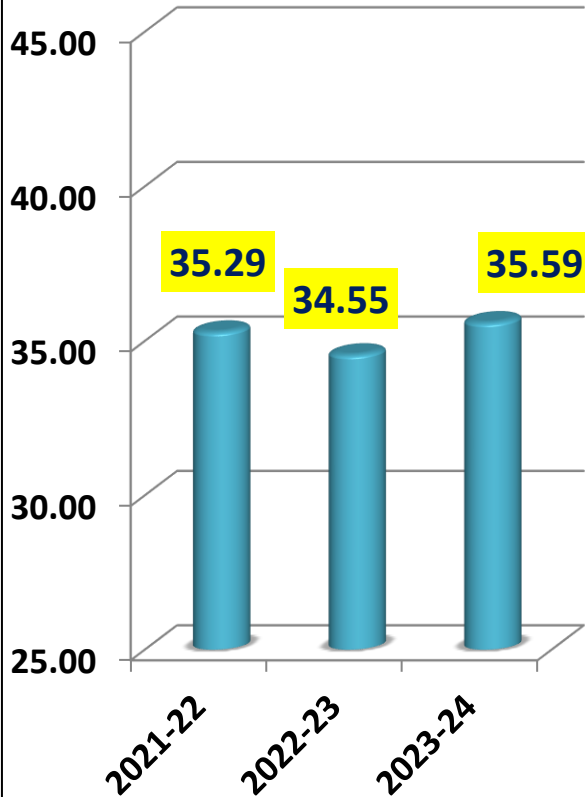
Specific Heat Consumption (Kcal/ KG Clinker)



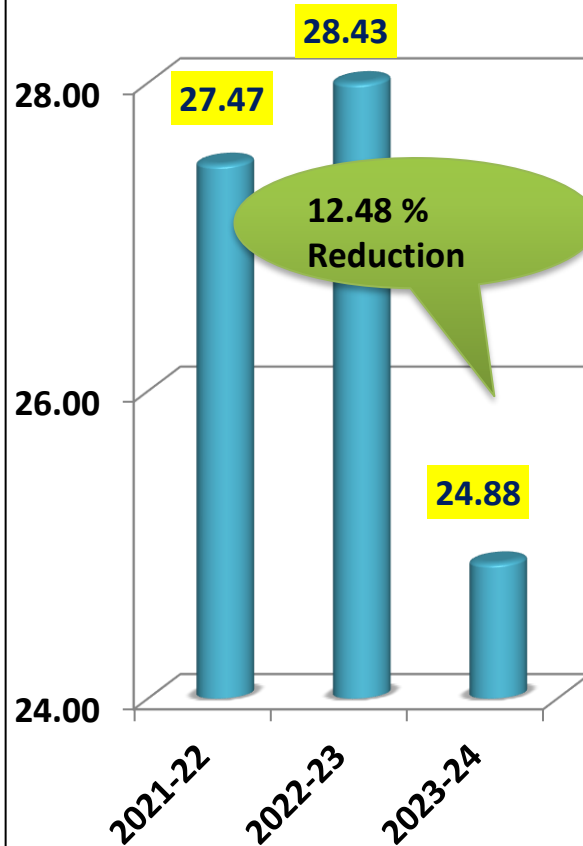
- In CM-1, installed Sinter cast roller tire & table liner and support ring build up.
- Separator blanking and seal gap reduction.
- Reduction in air to material ratio from 2.9 to 2.3 kg air/kg mat.
- Optimization of nozzle velocity.

Unit Energy Performance

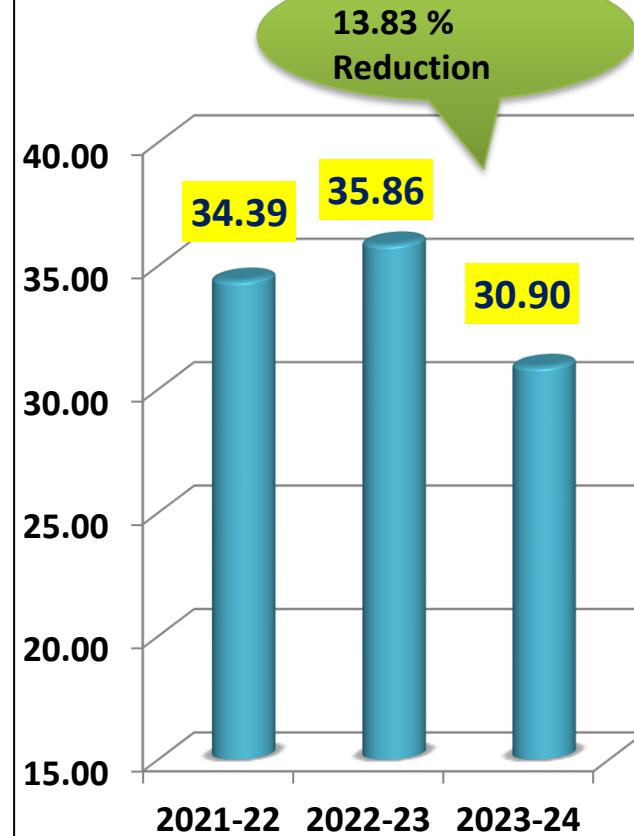
PPC (KWh/MT Cement)



OPC 43 (KWh/MT Cement)



OPC 53(KWh/MT Cement)



- Optimizing operation through Digitization in Raw Mill, Cement Mill, coal mill , Kiln and WHRS operation for performance improvement.
- Exploring for replacement existing Cooler with high efficiency cooler.
- Monitoring and Improving Efficiency of Process Fans.
- Increasing TSR (upto 2.5%) by using cheaper Fuel.
- Technology of Artificial intelligence in manufacturing
- Star Plate installation for return dust reduction from 6.8% to 5.3%

Kiln Sp. Heat :- 675 KCal/ Kg
Clinkerization Sp. Power- 50 KWh/MT
Grinding Sp. Power < 25KWh/MT
TPP Heat Rate & Aux – 2900 KCal / KWh & 7%
WHRs Aux: 2.5%

**Energy
Efficiency**

**Technological
Upgradation**

Green Energy

EN-Con Projects FY 21-24

Year	No of Energy saving projects	Investment (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal)	Total Savings (INR Million)	Impact on SEC/ SHC (Electrical kWh /MT cement or Kcal/Kg cement)
FY 2021-22	17	2.10	1.25		6.989	
FY 2022-23	2	0.55	0.423	-	1.653	
FY 2023-24	7	17.8	0.842		12.997	

EN-Con Project Implemented

S.N	Name of Energy saving projects	Investment (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal)	Total Savings (INR Million)	Impact on SEC/ SHC (Electrical kWh /MT cement or Kcal/Kg cement)
1	Energy Savings by Reduction in Suction Side Pressure Drop of Cooler Fans	5.50	0.11	-	0.42	
2	Energy Savings by Pressure Drop Reduction across RABH	5.50	0.32	-	1.24	
3	Thermal Savings by way of reduction in unburnt in Fly ash in Boiler# 1 and Boiler #2 by boiler U-beam retrofitting.	15.0	-		6.43	
4	Energy Saving by improvement of BFP efficiency by replacing with an efficient pump in Boiler#2	2.5	0.61	-	4.74	

EN-Con Project Implemented

S.N	Name of Energy saving projects	Investment (INR Million)	Electrical savings (Million kWh)	Thermal savings (Million Kcal)	Total Savings (INR Million)	Impact on SEC/ SHC (Electrical kWh /MT cement or Kcal/Kg cement)
5	Energy savings in ID fan power consumption by way of arresting the air leakage in the Flue gas path of Boiler-1	0.3	0.05	-	0.46	
6	Reduction in Specific Power Consumption of the Compressor in TPP by optimizing the operating pressure of compressor.	-	0.05		0.45	

Cement grinding power reduction from 32.51 to 30.00 kWh/MT

Problem-

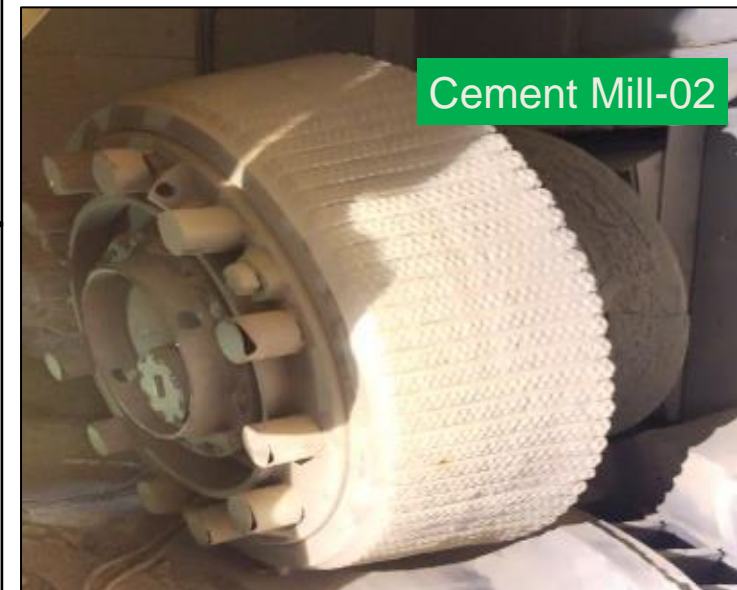
- Low MTBF of Cement mill – 113.02 Hrs.
- Worn out grinding parts
- Poor product quality resulting in higher separator speed

Solution-

- In CM-1, installed Sinter cast roller Tire and table liner
- CM-2 roller tires were replaced with worn out raw mill tires, which was done for the first time in KCW history
- Build up of support ring
- Separator seal gap reduction and maintenance
- Separator blanking reduction
- Reduction in air to material ration from 2.9 to 2.3 m³/gm
- Increased MTBF to 186.91 hr.

Benefits-

- Increase in productivity by 25 tph in OPC grade and 8 tph in PPC
- Cement mill MTBF improved from 113.02 hr in FY'23 to 186.91 hr in FY'24
- Cement Overall Power reduction from 32.51 KWH/MT to 30.00 KWH.MT



Energy Savings by Reduction in Suction Side Pressure Drop of Cooler Fans

Problem-

The suction side pressure drop is found to be on the higher side for the Cooler fans – 1A, 1B, 2, 3 & 5 which are – 102mmWG, – 140mmWG, – 155mmWG, – 75mmWG and – 70mmWG. The above suction pressure of Cooler Fans are higher, as compared to the maximum allowable limit of -30mmWG

Solution-

With help of OEM – designed straight bell mouth of higher area to reduce pressure drop to modify the inlet suction of above-mentioned Cooler Fans, such that the suction pressure can be limited to a maximum of – 30mmWG as it is drawing the air directly from atmosphere. This would result in an annual power saving of 0.13MU, 0.19MU, 0.33MU, 0.07MU and 0.06MU for Cooler Fans 1A, 1B, 2, 3 & 5 respectively

Benefits-

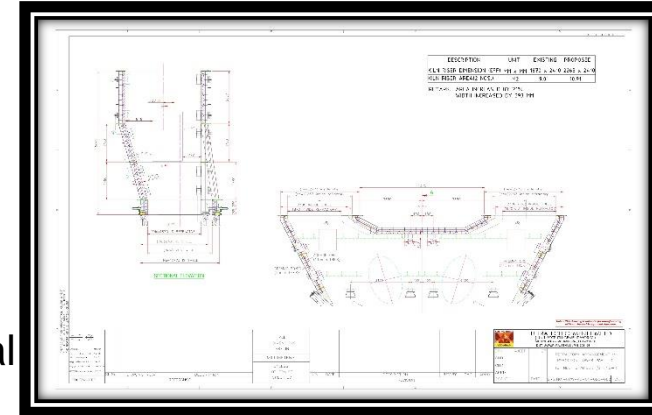
Annual Electrical saving -534600 KWH , 68 KW Saving



Kiln inlet riser area enlargement

Problem-

- Diminution in O₂ % at kiln inlet
- Unstable kiln operation
- Inadequate fuel combustion
- CO generation across the system
- Coating formation causing frequent jamming at kiln inlet
- Increased frequency of UT pump operation for coating removal
- Upsurge in PH fan KW
- Increased pre-Clinkerization power causing higher clinker cost



Solution-

Kiln Inlet throat area enlargement to decrease velocity across riser resulting in proper fuel combustion and increase in oxygen

Benifits-

PH outlet draft has reduced by 30-35 mmwg and PH fan inlet fan draft reduced by 50-60 mmwg. PH fan reduced by 20-22 rpm with simultaneous reduction in Fan kw by 150 kwh/each fan which resulted in reduction in Pre-Clinkerization power

Kiln stability has improved as Kiln Torque which has increased from 260-270 kw to 260-310 kw which has happened due to additional Kiln coal firing margin (27-28% from 21-22% before) with increase in Kiln throat area.

There is no material fall through observed at Kiln inlet after riser area expansion

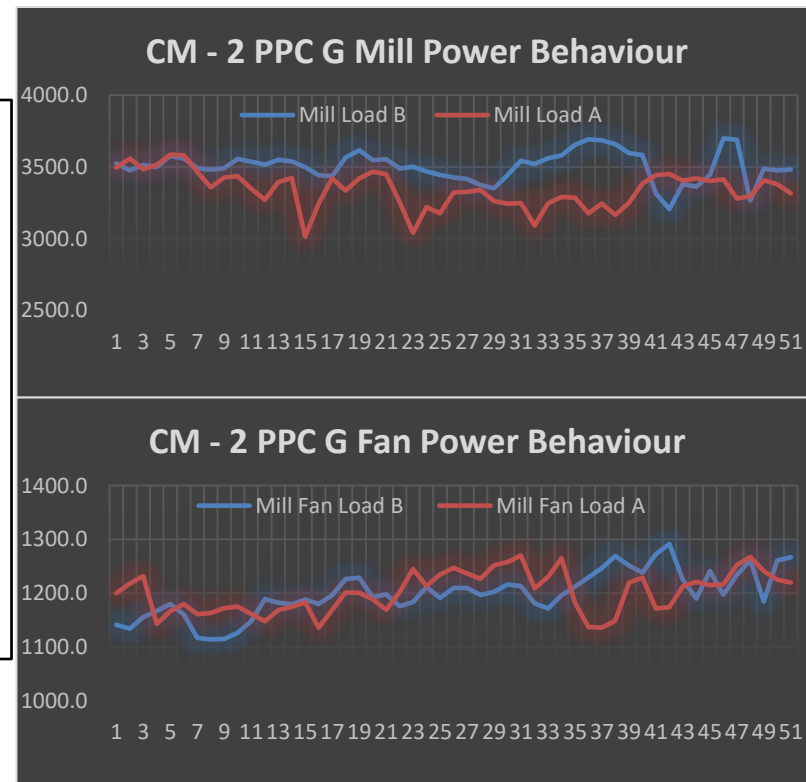
Theme- Power reduction of Cement Mill through expert optimizer

Activity

Loop optimization for Controlled variables-Mill DP, Mill Main Drive KW, Mill elevator KW, Mill Outlet Temperature, Mill Inlet draft, Mill Vibration, Mill Fan flow, Blaine

Result Indicators

- ❖ Smooth operation of cement mills during different cement grade grinding.
- ❖ CM1 OPC grade N53 production improved from 168.80 to 176.46 TPH and specific power reduced from 32.90 to 31.61 KWh/T
- ❖ CM2 PPC grade production improved from 160.30 to 166.86 TPH while specific power reduced from 37.00 KWh/T to 36.00 KWh/T



Theme- Reduction in miscellaneous power consumption/MT of Clinker

Problem- Higher unit consumption in various sub head of Misc power consumption resulting into higher Sp power consumption / MT of clinker

Solution-

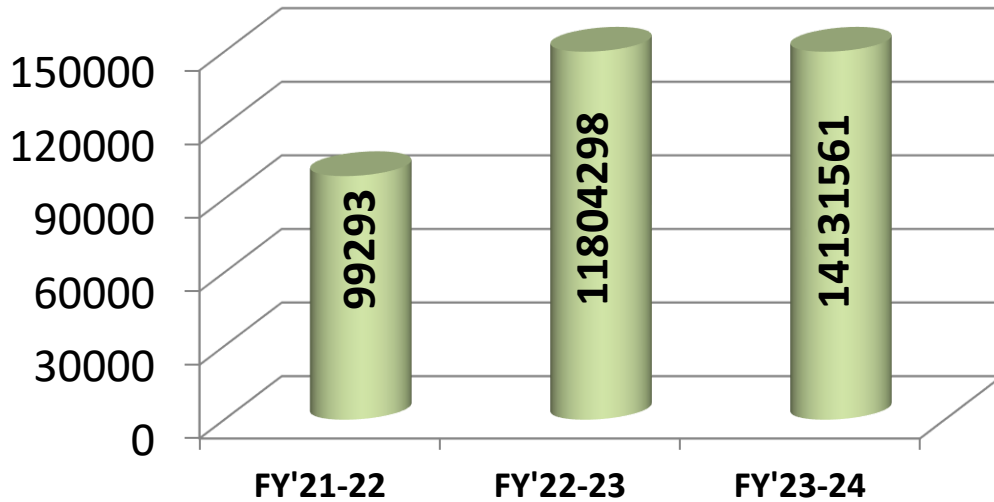
- High efficiency pump operation started instead of normal pumps.
- Crusher HVAC supply stopped after crusher stoppage.
- LED lights replacement against existing conventional HPSV lamps Qty 150 number
- Existing RMHS light operational time optimization done.
- Colony Consumption raised due to colony Occupancy increased for line 2. Hence
- consumption observed more. Whereas there is net saving of approx. 100 Units/day.
- Alternate lighting provision made for streetlight after 11 PM at colony which has given
- saving of approx.100 units/Day.
- Distribution transformer for colony power supply and cement mill turned off with low load
- operation to reduce transformer losses in both transformer.

Benefits-

Miscellaneous power reduced by 0.427 kWh/mt clk

Overall specific power up to clinkerization reduced by 0.483 kWh/mt clk

➤ Solar Power Generation (KWh)



41.51% energy share of WHRS and Solar in FY24

100% Compliance of RPO

Solar lighting system

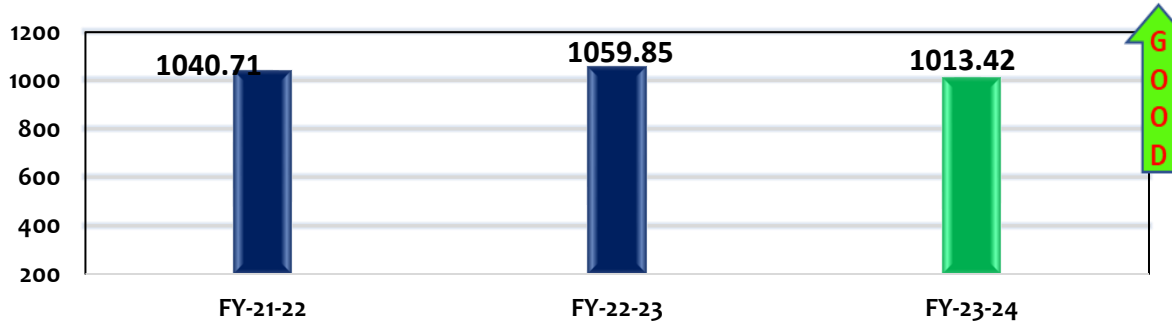


Onsite					
Year	Source(Solar)	Installed Capacity(IN MW)	Capacity Addition (MW) After FY 2021	Total Generation (Million kWh)	Share % w.r.t. to overall energy consumption
FY'21-22	Solar	0.1	100	0.099293	0.04
FY'22-23	Solar	9.24	9.14	11.804298	4.65
FY'23-24	Solar	9.24	9.14	14.131561	5.08

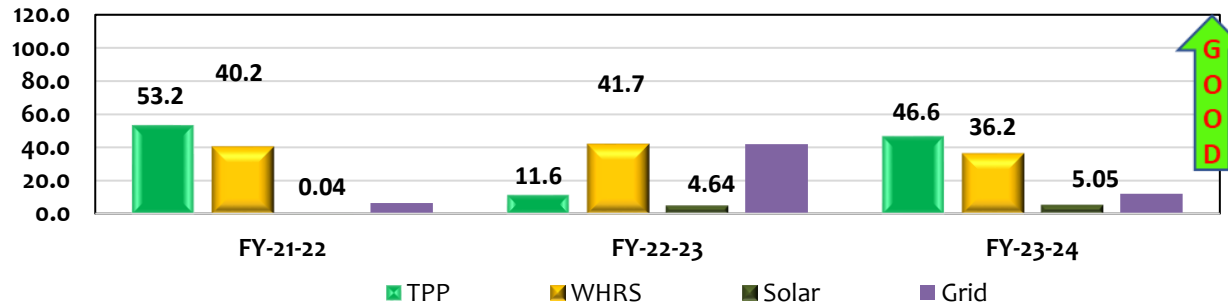
- No, Utilisation of Renewable Energy sources (Offsite).
- No, RPO Obligation.

Waste Heat Recovery System

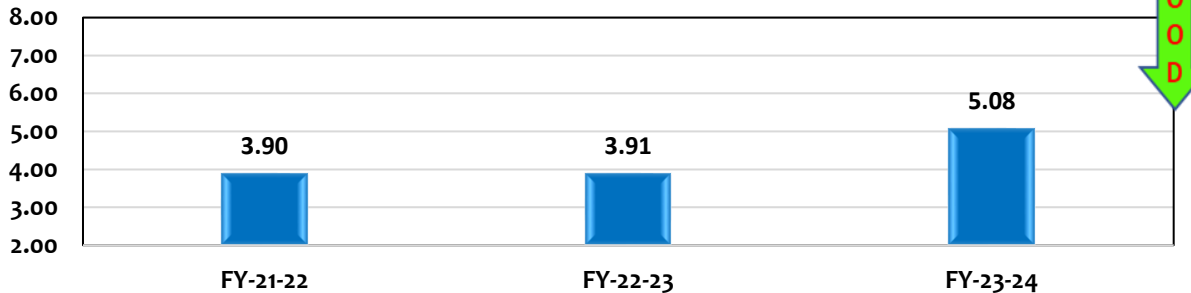
WHRS Generation (Lacs Kwh)



Power Share (%)



Power Mix Cost (Rs./Kwh)



Utilization of **AFR (Alternative Fuels and Raw Material)** as **Alternate Fuel** in Kiln.
Total of **142 MT AFR** has been fired into Kiln during **FY 2023-24**.

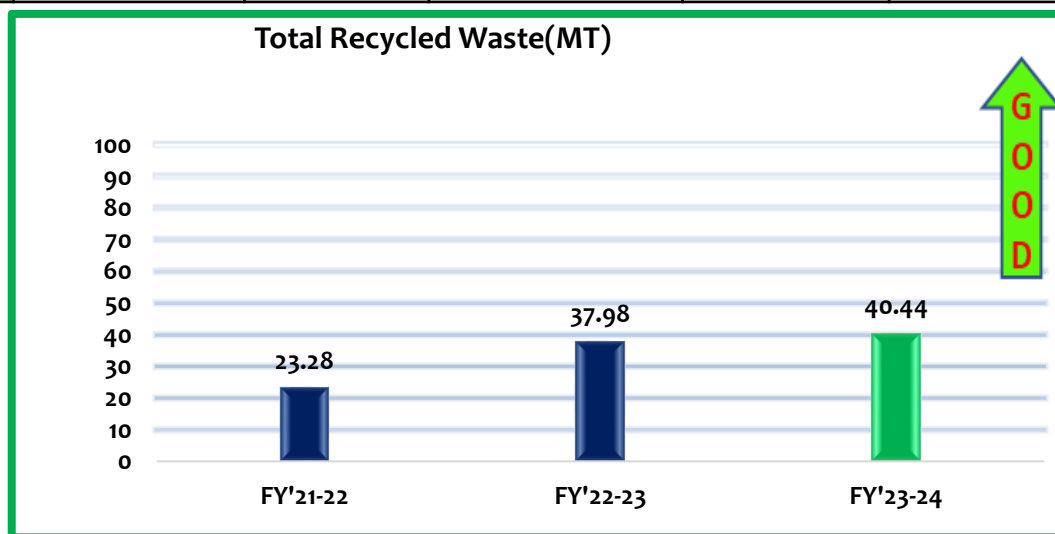
Year	Waste as fuel	Quantity (MT)	GCV (kcal/kg)	Waste as percentage of total fuel (TSR%)
FY'21-22	AFR	146	3720.92	0.02
FY'22-23	AFR	139	3505.32	0.02
FY'23-24	AFR	142	3282.60	0.02

Utilization of **ETP Sludge and Lime sludge waste in Raw Mix**. Total Quantity used in **FY 2023-24 – 2898.03 MT**

Year	Waste as raw material	Quantity (MT)	Replaced material	Waste as percentage of raw material
FY'21-22	ETP & Lime Sludge	2690.3	2690.3	0.05
FY'22-23	ETP & Lime Sludge	4998.62	4998.62	0.11
FY'23-24	ETP & Lime Sludge	2898.03	2898.03	0.05

Identified **Authorized vendors for Recycling of Wastes**. Followings are the detail of category wise wastes recycled through authorized vendor, Total of **40.44 MT** wastes have been recycled in **FY'23-24**.

Year	Medical Waste (MT)	Empty Barrel (MT)	Batteries (MT)	Grease (MT)	Oil (MT)	Sum
FY'21-22	0.06	11.62	0.84	5.06	5.7	23.28
FY'22-23	0.0838	3.66	0	5.64	28.6	37.98
FY'23-24	0.0989	3.44	10.816	3.46	22.63	40.44



Domestic effluent generated from offices and township is being treated in the STP and recycled for green belt development, dust suppression and Cement Plant process operation (78400 Cum./annum)

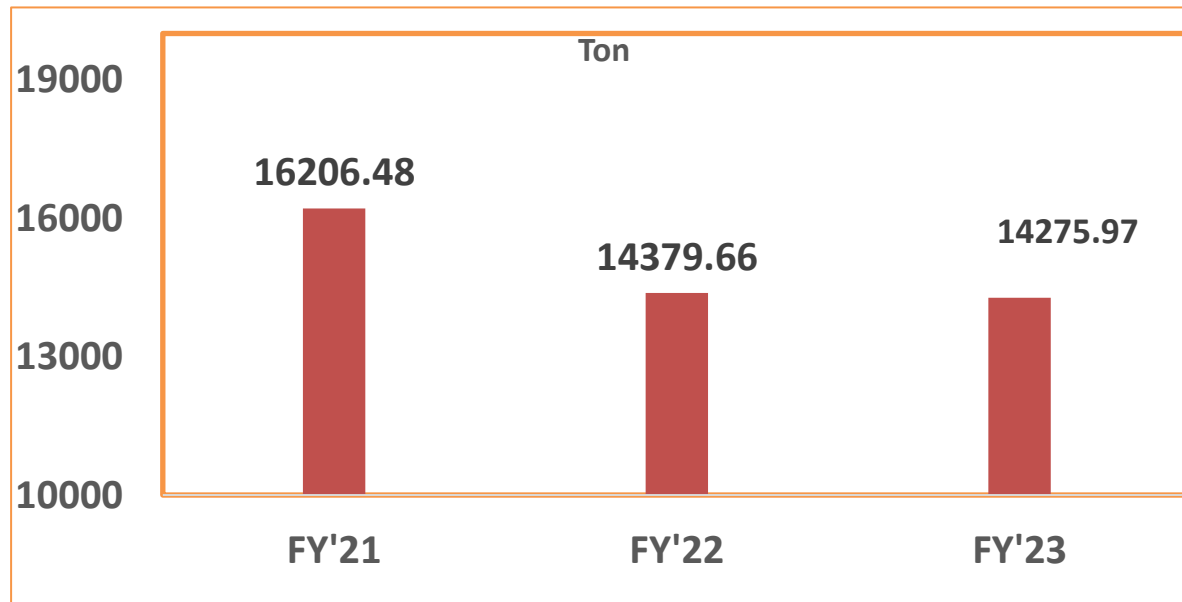
STP sludge is used as manure for green belt development within the plant premises. (13.99 Ton/annum)

In FY 23-24, total 2.90 Million Cu Meter water has been collected and harvested.

KCW is 6.50 times water positive in FY21

RDF Production at Municipal Solid Waste Plant

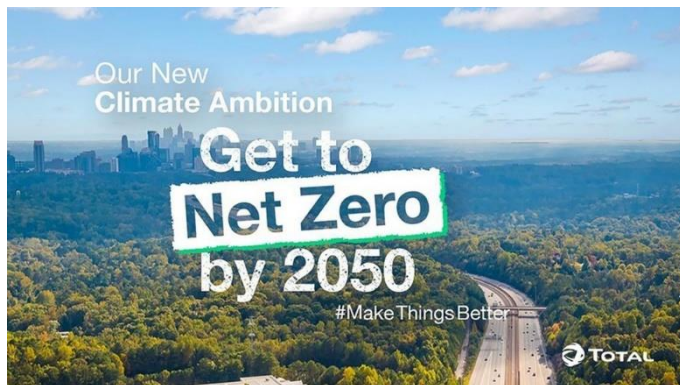
Year	Effluent waste water- (KL)	Soild waste generated- (MT)
FY'21-22	60024	11.66
FY'22-23	60757	13.99
FY'23-24	78400	13.99



We follow an annual cycle of reporting compliance with global reporting norms and public disclosure in accordance with Cement Sustainability Initiative (CSI) on key performance indicators & Global Reporting Initiatives (GRI) G4 Core guidelines.

“UTCL Target Reduction for Scope 1 GHG intensity by 27% by 2032 from the base year of 2017”

Science-Based Target initiative (SBTi) has validated the targets to lower its CO₂ intensity by 462 kg net CO₂ per ton of cementitious material

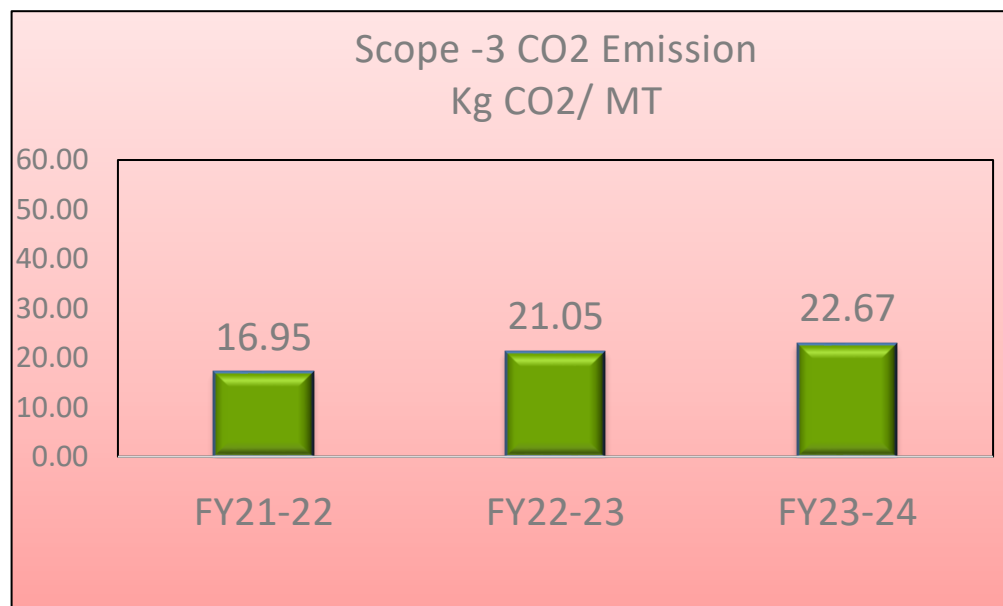
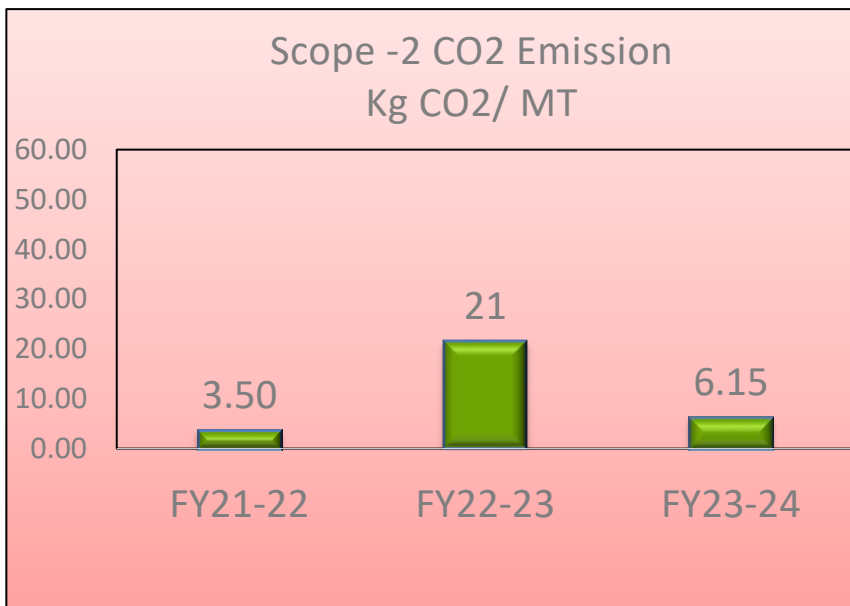
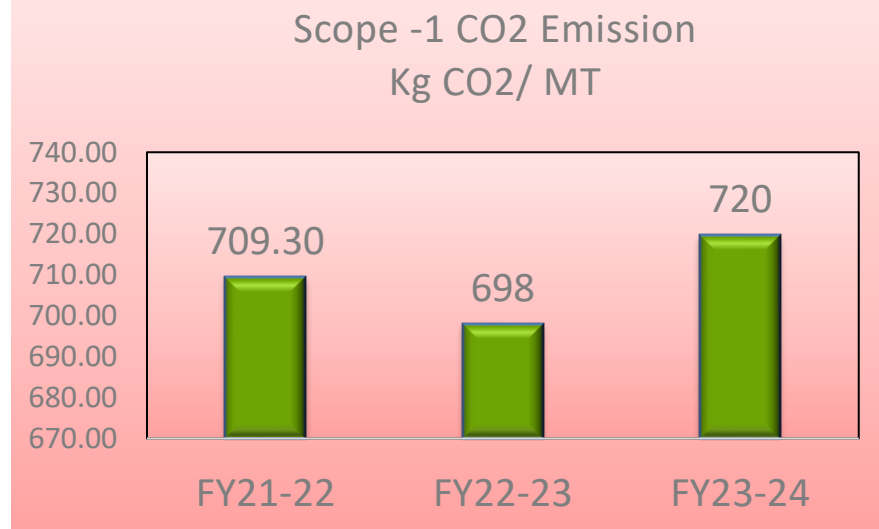


UltraTech Cement joined '2050 Climate Ambition'

Commitment to drive down the CO₂ footprint and deliver society carbon neutral concrete by 2050.

GHG Emission

Parameter	(kg CO ₂ /t of cement produced)		
	FY '21-22	FY '22-23	FY'23-24
Scope I CO ₂ emissions (Direct CO ₂ emissions)	709.30	697.92	719.57
Scope II CO ₂ emissions	3.5	21.41	6.15
Scope III CO ₂ emissions	16.95	21.05	22.67



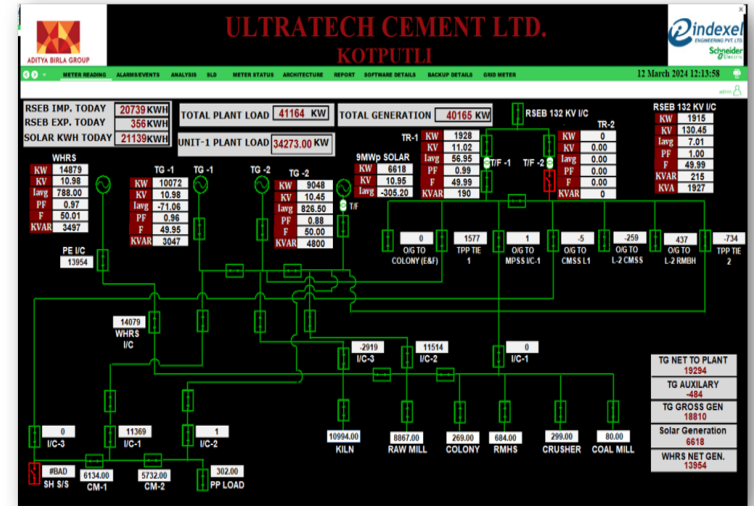
Existing monitoring system:

Latest Schenider Energy Monitoring System
Software Name: Power Operation.

- Suitable for Windows 10 with 15000 Tag license.
- Complying all cyber security requirement.
- Software with IEC61850 protocol for communication via OFC.
- Software Platform support OPC DA Server & OPC client .

Challenges and upgradation during implementation :

- EMS upgraded on Dec'23.
- Earlier version of EMS was supported upto OS window -7 which was marked absolute by Micro Soft.
- Earlier it was RS485 communication through Moxa converter which required to hook-up with new OFC network.
- Data fluctuation issue faced due to different type of make & model of energy meters communicated under same communication protocol.



ULTRATECH CEMENT LTD. KOTPUTLI

27 December 2023 17:21:41

10.75.1.29 (L-2 SHSS)

METER NAME	METER ID	VAR.	TAGS	STATUS
HT_meter	1	SIN280		OK
HT_KCOS	2	SIN281		OK
HT_OIG-400WV AC Motor	3	SIN282		OK
HT_OIG-200WV AC Motor	4	SIN283		OK
HT_OIG-100WV AC Motor	5	SIN284		OK
HT_OIG-50WV AC Motor	6	SIN285		OK
HT_OIG-25WV AC Motor	7	SIN286		OK

10.75.1.31 (L-2 CMSS-HT)

METER NAME	METER ID	VAR.	TAGS	STATUS
HT_OIG-100WV SHARE	1	SIN287		OK
HT_OIG-200WV TR-1	2	SIN288		OK
HT_OIG-200WV TR-2	3	SIN289		OK
HT_OIG-50WV SHARE	4	SIN290		OK
HT_OIG-50WV TR-1, L2, L3, TR-2, TR-3	5	SIN291		OK
HT_OIG-50WV MOTOR-1	6	SIN292		OK
HT_OIG-50WV MOTOR-2	7	SIN293		OK
HT_OIG-50WV MOTOR-3	8	SIN294		OK
HT_OIG-50WV MOTOR-4	9	SIN295		OK
HT_OIG-50WV MOTOR-5	10	SIN296		OK
HT_OIG-50WV MOTOR-6	11	SIN297		OK
HT_OIG-50WV MOTOR-7	12	SIN298		OK
HT_OIG-50WV MOTOR-8	13	SIN299		OK
HT_OIG-50WV MOTOR-9	14	SIN300		OK
HT_OIG-50WV MOTOR-10	15	SIN301		OK
HT_OIG-50WV MOTOR-11	16	SIN302		OK
HT_OIG-50WV MOTOR-12	17	SIN303		OK
HT_OIG-50WV MOTOR-13	18	SIN304		OK
HT_OIG-50WV MOTOR-14	19	SIN305		OK
HT_OIG-50WV MOTOR-15	20	SIN306		OK

10.75.1.33 (L-2 KCSS-PCC)

METER NAME	METER ID	VAR.	TAGS	STATUS
PCC_OIG-1	1	SIN307		OK
PCC_OIG-2	2	SIN308		OK
PCC_OIG-3	3	SIN309		OK
PCC_OIG-4	4	SIN310		OK
PCC_OIG-5	5	SIN311		OK
PCC_OIG-6	6	SIN312		OK
PCC_OIG-7	7	SIN313		OK
PCC_OIG-8	8	SIN314		OK
PCC_OIG-9	9	SIN315		OK
PCC_OIG-10	10	SIN316		OK
PCC_OIG-11	11	SIN317		OK
PCC_OIG-12	12	SIN318		OK
PCC_OIG-13	13	SIN319		OK
PCC_OIG-14	14	SIN320		OK
PCC_OIG-15	15	SIN321		OK
PCC_OIG-16	16	SIN322		OK
PCC_OIG-17	17	SIN323		OK
PCC_OIG-18	18	SIN324		OK
PCC_OIG-19	19	SIN325		OK
PCC_OIG-20	20	SIN326		OK
PCC_OIG-21	21	SIN327		OK
PCC_OIG-22	22	SIN328		OK
PCC_OIG-23	23	SIN329		OK
PCC_OIG-24	24	SIN330		OK

10.75.1.32 (L-2 CMSS-690V)

METER NAME	METER ID	VAR.	TAGS	STATUS
SWS Separator Main Drive Delta	1	SIN331		OK
SWS Separator Main Drive Star	2	SIN332		OK
Common Mill Separator Main Drive Delta	3	SIN333		OK
Common Mill Separator Main Drive Star	4	SIN334		OK
Sleepin Star	5	SIN335		OK
Sleepin Delta	6	SIN336		OK
TMUX TruStar Inverter	7	SIN337		OK
TMUX TruStar Inverter	8	SIN338		OK



UltraTech Cement Ltd.
Kotputli Cement Works

Green Supply Chain Policy

We at UTCL is committed to Green procurement through a selection of products and services that minimize environmental impact. We will develop and conduct programs for the suppliers with focus on green supply chain.

We are also committed to:

- Use of waste generated by other process industries for co processing and working towards zero discharge to the landfill.
- Incorporate the use of renewable resources.
- Encourage suppliers, transporters, contractors/service providers to offer environmentally preferable products and services at competitive prices.
- Encourage suppliers, transporters, Contractors/service providers to continually improve their performance with respect to Safety, Health, and Environment through Sustainable Development.
- Purchasing preference will be given to the suppliers who -
 - o Minimize the generation of waste and safe disposal.
 - o Offer eco-friendly products
- Consider Life Cycle Cost during procurement activities.
- Sustain appropriate development programs for our employees and suppliers.
- Comply with all environmental legislative and regulatory requirements in the procurement of products and services.

- ❖ 100% synergy between petcoke lifting from IOCL ,Panipat and Clinker dispatches to Panipat Grinding unit.
- ❖ While procuring the Motors, AC's, luminous products & refrigerators we are incorporating the Clause of Energy efficient Products needs to be supplied with ratings mentioned.
- ❖ Implementation of RTGS/NEFT for making online payment instead of Cheque Process there by reducing the Paper Consumption.
- ❖ Increasing the Vendor Management inventory to save multi packing & Shipments.
- ❖ Reduction of carbon foot print by developing the reverse logistics & reduce the CO2 emissions.

Net Zero Target: UTCL is committed to Net-Zero Concrete Pathway to produce carbon-neutral concrete by 2050.

Road Roadmap for achieving the target :

- UTCL targets to reduce its Scope 1 emission intensity by 27% and Scope 2 emission intensity by 69% by 2032, from base year 2017, validated by Science Based Targets Initiative (SBTi).
- UTCL's major decarbonisation initiatives include transition to green energy mix (waste heat recovery and renewable energy), substituting fossil fuels with alternative fuels, R&D for low-carbon products and technological advancements. UTCL has also signed an agreement with M/s Coolbrook, a Finland-based company, for large-scale deployment of their patented technology – RotoDynamic Heater™ for kiln electrification.
- The green energy share of KCW was 42% in FY24. 9MWp solar power plant was commissioned in the year 2022-23.

Voluntary Commitment:

- RE100: UTCL working extensively towards transition to green energy and targets to substitute 85% of its electricity requirement through green energy (WHRS plus Renewable energy) mix by 2030.
- As part of its RE100 commitment, UltraTech aims to source 100% of its electricity from renewable resources by 2050.
- EP100: UTCL set Voluntary targets to reduce emissions by 27% and 69% for scope 1 and scope 2, respectively, by 2032 from 2017 as the base year, which SBTi validates.

System Adopted

ISO Certification & Development on energy efficiency

Certificate ISO 50001

Certificate ISO 9001

UTCL Energy And Carbon Policy



DNV
MANAGEMENT SYSTEM
CERTIFICATE

Certificate no.: 172295-2015-AE-IND-RVA Initial certification date: 09 March 2015 Valid: 10 May 2024 - 09 March 2027
Entry date of last certification cycle: 09 March 2020
Date of last certification: 28 April 2024

This is to certify that the management system of **Ultratech Cement Limited**
Unit: Kotputli Cement Works, Village: Mohanpura, Tehsil: Kotputli, Jaipur - 303108, Rajasthan, India

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

This certificate is valid for the following scope:
Manufacture of Cement and clinker

Place and date:
Barnstaple, 10 May 2024

For the issuing office:
DNV - Business Assurance
Zuidweg 1, 2004 LB Barnstaple,
Netherlands

For the holding office:
DNV GL - Business Assurance
ADNA, No. 50, 021 East C. Alameda Channel
P.O. Box 612, Seattle

Unit Head
Management Representative

DNV-GL
MANAGEMENT SYSTEM
CERTIFICATE

Certificate no.: 151632-2014-AQ-IND-RVA Issue/ certification date: 17 July 2014 Valid: 17 July 2020 - 16 July 2023

This is to certify that the management system of
UltraTech Cement Limited (Unit: Kotputli Cement Works)
(Unit: Kotputli Cement Works), Village & Post : Mohanpura, Tehsil: Kotputli,
District: Jaipur - 303 108, Rajasthan, India

has been found to conform to the Quality Management System standard:
ISO 9001:2015

This certificate is valid for the following scope:
Manufacture of clinker & cement

Place and date:
Chennai, 07 January 2020

For the holding office:
DNV GL - Business Assurance
ADNA, No. 50, 021 East C. Alameda Channel
P.O. Box 612, Seattle

The Risk is obligatory to the IAF SMLA

Unit Head
Management Representative

ULTRATECH CEMENT LIMITED
UNIT: KOTPUTLI CEMENT WORKS
ENERGY & CARBON MANAGEMENT POLICY

We are committed to demonstrate excellence in Energy and Carbon performance in all our activities of manufacturing of cement and clinker on a continual basis so as to make our operations environmentally sustainable for future.

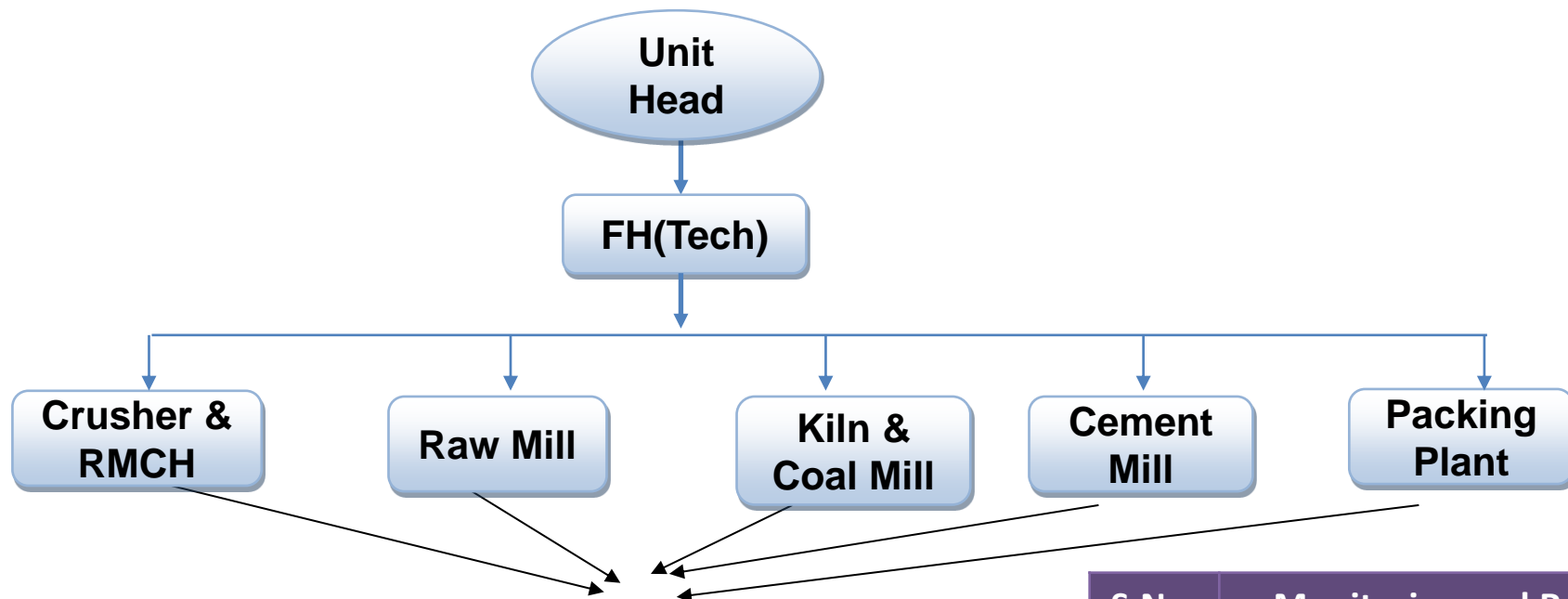
We shall achieve this by:

- Maintaining positive legal compliance to energy & carbon regulations.
- Raising Awareness to encourage efficient use of energy resources, with a focus on reducing its energy intensity and carbon footprint.
- Increasing the use of renewable energy and alternative fuel wherever possible.
- Continuous up-gradation of process with energy efficient & ecofriendly technology, support the purchase of energy efficient product, services and design, for continual improvement of Energy performance and carbon footprint.
- To ensure the availability and providing information & resources to stakeholders to promote and propagate actions towards reducing energy and low carbon approaches to benefit business and associated communities & to achieve objective and targets.
- Monitoring and control of energy consumption through effective energy management system, periodic energy audit and report energy used and carbon emission in compliance with internationally recognized protocol.
- Recognizing efforts of our employees in energy conservation initiatives.
- Benchmarking our performance with best and striving to beat the best.

Revision No.: 03

Unit Head
Date: 21/07/2020

- ❑ Energy Conservation related projects impacting and contributing for natural resources conservation are being approved immediately by the management.
- ❑ Conduct the training for awareness of energy conservation.



- Energy Conservation Meeting
- Daily production review Meeting
- Technical Performance review meeting
- Capex review meeting

S.No.	Monitoring and Reporting
1	Daily Power Report
2	<i>Daily Section Performance Review Report</i>
3	Daily Compressor Power Report
4	Daily HOF Optimization Report
5	Daily Idle run hrs report

CIIE Excellent & Energy Efficient Award Consecutively 11th year..



CIIE Excellent & Energy Efficient Award Journey started from 2012.

Awards & Accolades




KCW Has Been Awarded Excellence Energy Efficient Unit from CII Hyderabad in FY-22



First Consolation Award received on 9th Dec'22 by NCBBM for for Energy Excellence" in Integrated Cement at Delhi by "Shri Som Parkash Ji" Honorable Minister of State 'Ministry of Commerce & Industry, Govt. of India

ADITYA BIRLA
UltraTech

"Energy Conservation Week"
9th to 14th Dec'23
Unit Head's Message



Dear KCWites,

The National Energy Conservation Day is being celebrated every year on 14th December since 1993. In line with this at KCW, I am pleased to announce that we are celebrating 9th to 14th Dec'23 as Energy conservation week.

- "Energy Conservation" is the process of reducing energy use through changes in everyday behaviour.
- "Energy Efficiency" is the goal of efforts to reduce the amount of energy required to provide products and services.

Objective of Energy Conservation week is to:

- Enhance awareness among employees about the importance of energy as well as conserving the energy in every walk of the life.
- Inductate the energy conservation culture and rooted in the behaviour of employees to get effective implementation of energy plans.
- Encourage efficient use of energy to decrease the energy consumption & minimize losses.
- Efficient use of energy is very necessary to save it for the future usage.

With this week celebration, I urge all of you to participate in various activities as mentioned below, refresh & share your knowledge and skills regarding Energy Conservation & Efficiency to step forward towards sustainable growth by conserving energy and resources in all respect.

1. Slogan & Poster Competition (Hindi & English)
2. Energy conservation suggestions.

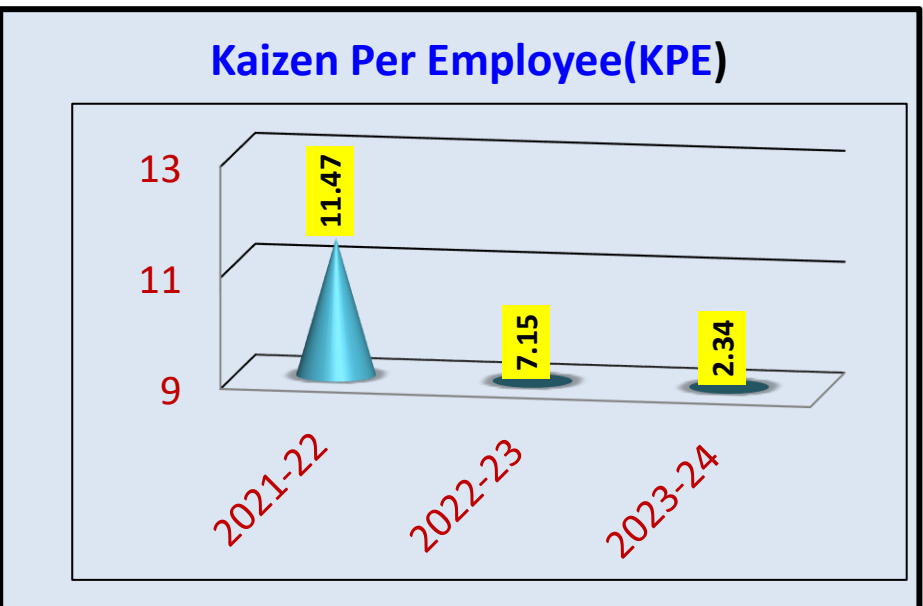
Participation is invited for both activities in categories of O & S, Wage Board and Contract Workmen. Winners will be announced and rewarded in Mass Communication Meeting.

By working together, we can contribute towards the cleaner and sustainable growth with help of short term and long term energy conservation goals.

NSR Kharagpur
Unit Head
Date: 09.12.2023



Celebrating energy conservation week for Suggestion campaign, Slogan, Drawing & Poster Competition and recognition to all winners for participation.



Kaizen Award winning teams

1. CII is a platform to learn the complete energy conservation related technology and innovation tactics.
2. We get inspiration to view overall data of different industry at common platform.
3. Analytical level increased to understand the data and how to conserve energy in industry level.
4. Awards gives possibility to industry to explore and be known nationally and internationally for their innovative products and services.
5. CII has formulated an Enterprise Innovation Maturity Framework which forms the basis of assessment of firms applying for CII Industrial Innovation Awards.
6. Learn about innovation best practices by taking part in various stages of the award process.
7. By involving in CII Awards platform at national level we can enhance our knowledge regarding different unit ideas for reduction of energy in different fields. So we can explore the implementation of the suitable points in our plant/area.
8. We can reduced the cost of the final product by enhancing the knowledge by adopting the latest technology and innovation in different plant.

Thank You...

Presenting Team Members :-


Mr. Krishankant Parmar (Senior Manager, Electrical)

Mrs. Sarita Yadav (Asst. Manager, WCM/ ISO)

Energy Manager Mail Id and Contact No.

jasmin.bhavsar@adityabirla.com

9594909764



UltraTech
The Engineer's Choice
INDIA'S NO.1 CEMENT

LOCAL KO VOCAL BANANA HAI

“ विदेशी सीमेंट नही देसी सीमेंट लगाओ
देश के No.1 सीमेंट अल्ट्राटेक से देश को बनाओ”