M/s. PARASAKTI CEMENT INDUSTRIES LTD.,

Jettipalem (Village & Post), Rentachintala (Mandal)
Palnadu (Dist.) – A.P.522421

ENVIRONMENTAL STATEMENT (AUDIT) FOR THE FINANCIAL YEAR 2024-2025

B.S ENVI-TECH PVT.LTD
12-13-1270/71/73, 4th Floor, Amity Ville,
St. Ann's Road, Tarnaka,
Secenderabad-500017
Ph No: 040-49783062

ACKNOWLEDGEMENT

M/s. B.S ENVI-TECH PVT.LTD express since debt of gratitude to **M/s. Parasakti Cement plant (M/s. Parasakti Cement Industries Limited)** for the opportunity given by assigning the preparation of Environmental Statement (Audit) for their CEMENT PLANT located near Jettipalem (V) Rentachintala (M), Guntur (Dist) of Andhra Pradesh. The Environmental Statement (Audit) is prepared for the financial year from April 2024 to March 2025. Special mention needs to be made of executives of M/s. PARASAKTI CEMENT INDUSTRIES LIMITED for their cooperation and assistance during the preparation of Environmental Statement. We also wish to acknowledge our gratitude to all of them who helped during the data collection and report preparation.

CONTENTS

Acknowledgement	2
Contents	3
List of Tables	4
List of Figures	4
FORM – V	5
1. INTRODUCTION	12
2. OBJECTIVE OF THE STUDY	12
3. BENEFITS OF ENVIRONMENTAL AUDIT	13
4. LOCATION	14
5. PROCESS DESCRIPTION	16
6. WATER REQUIREMENT	23
7. POLLUTION CONTROL IN THE PLANT	23
7.1 Waste water sources and Monitoring	23
7.2 Air Pollution Control	23
7.2.1 Stack Emission	23
7.2.2. Ambient Air Quality	26
7.2.3. Noise Pollution	27
8. GREENBELT DEVELOPMENT	28
9. HOUSE KEEPING	29

APPENDIX

A.	National Ambient Air Quality Standards	i
B.	Standard for Stack Emissions	iii
C.	Ambient Air Quality Standards in Respect Noise	iii
D.	General Standards for Discharge of Effluents	iv
E.	Test Characteristics for Drinking Water IS 10500:2012	vi
F.	Plant Species for Green Belt Development	viii

LIST OF TABLES

7.1. Air pollution control equipments (Unit – I & II) 24-25
7.2. Average Values of Ambient Air Quality Data 26
7.2.3. Average values of Ambient Noise Level 27

LIST OF FIGURES

Fig. 1. Location Map of M/s. PARASAKTI CEMENT INDUSTRIES LTD. 15
Fig. 2. Process flow Diagram of Cement Manufacturing . 22

FORM - V
(See rule 14)

ENVIRONMENTAL STATEMENT REPORT FOR THE FINANCIAL YEAR ENDING THE 31ST MARCH 2025

PART – A

1	Name and address of the owner/ occupier of the industry operation Or process.	**M/s. Parasakti Cement Industries Ltd.,** My scape Weave,5Th Floor, Financial District, Gachibowli, Hyderabad, Telangana – 500 032. **Factory:** Jettipalem, Rentachintala Mandal, Palnadu District, Andhra Pradesh. Phone: 9866700013/14
2	Industry Category Primary: (STC Code) Secondary: (STC Code)	Primary
3	Date of last environmental audit Report submitted	September, 2024
4	Production Capacity (units)	Clinker Production – 1.20 MTPA Cement Production – 1.26 MTPA
5	Year of establishment	June - 2005

PART – B

	Water and Raw Material Consumption			
a)	**Water consumption**	**Units**	**Limits**	**FY:2024-25**
1.	Process consumption & Dust suppression	KLD	260	177.98
2.	Domestic	KLD	160	148.96
3.	WHR Consumption	KLD	1445	640.18
	Total water consumption	KLD	1865	967.12

Name of Products	**Water consumption per unit of product (KL/MT)**
	Financial year 2024-2025
Cement	1.0773

RAW MATERIAL CONSUMPTIONS FOR THE YEAR OF 2024-25

Name of raw materials	Consumption of raw material per MT of output based on MT of Cement
	Financial year in MT (2024-2025)
Lime Stone	0.988
Iron ore	0.0155
Late rite	0.0380
Redmud	0.0024
Dolomite	0.0099
Gypsum-S	0.0534
Gypsum	0.0291
Fly Ash	0.0766
Limestone-PIs	0.0325
Coal	0.1059

PART - C
POLLUTION GENERATED
(Parameter as specified in the consent issued)

a) Treated Waste Water				
S.NO	**PARAMETERS**	**UNITS**	**LIMITS**	**2024-25**
1	pH		6.5 – 9.0	7.58
2	Total Suspended solids	mg/l	<100	10.92
3	Oil & Grease	mg/l	10	1.00
4	COD	mg/l		30.50
5	BOD	mg/l	30	7.25
6	Fecal Coliform (MPN/100ml)		<1000	159.17

b) Air.				
Stack Attached to	Pollutants	Quantity of Pollutants Discharged (Kg/day) 2024-2025	Concentrations Of Pollutants in Discharges (mg/Nm^3) 2024-2025	Percentage of variation from prescribed standards with reasons
Kiln – I	PM	Line-1 was planned stopped for the year of 2024-25-		
Cooler - I	PM			
Coal Mill – I	PM			
Cement Mill –I	PM	103.25	16.4	38.89% less
Kiln – II	PM	62.96	16.92	44.25% less
Cooler – II	PM	18.80	17.08	34.31% less
Coal Mill – II	PM	8.37	16.24	30.31% less
Cement Mill – II	PM	12.68	15.65	41.14% less

PART - D
HAZARDOUS WASTE
(As specified under Hazardous wastes/Management and handling Rules, 2003)

Hazardous wastes From Process

Hazardous wastes	**Total Quantity per year**		
	Units	**LIMITS (CFO)**	**financial year (2024-2025)**
Batteries scrap-used batteries	No's /Annum	100	NIL
Used Hicrome Grinding Media	MT /Annum	10	NIL
Waste Lube Oil	LPA	5000	NIL
Waste Grease	Kg /Annum	8000	7390
From Pollution Control facility			
Quantity recycled or Re-utilized			

Note: Waste Grease generated from plant.

PART – E
SOLID WASTES

Solid wastes From Process

Solid Wastes	**Total Quantity**
SOLID WASTES	**During the current financial year (2024-2025)**
From Pollution Control Facilities	NIL
Quantity recycled or reutilized within the unit	NIL

PART - F

Please specify the characteristics (in terms of concentration and quantum) of Hazardous as well as solid wastes and indicates disposal particles adopted for both these categories of wastes.

1. NO Waste lube oil is generated from the plant
2. 7390 Kgs of waste grease have been generated from the plant
3. 7390 Kgs Waste grease is sold to M/S Sri sravanthi lubrication and to M/S Sri Mohan lubrication Ltd. an agency authorized by APPCB.
4. No Solid waste is generated from the Plant as it is a dry process. The intermediate products, raw material and finished product collected in various pollution control systems is being recycled in to the process.

PART – G

Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production.

-Nil-

PART - H

Additional investment proposal for environmental protection including abatement of pollution.

1. An amount of Rs.2,52,000/- is spend on regular monitoring.
2. Total investment on the greenbelt development for the year 2024-25 is Rs. 105698/-
3. Total investment on the maintenance of the pollution control equipments for the year 2024-25 is Rs 2103958.1/-
4. Total investment on STP, and new STP ,Vacuum cleaner, Drinking welfare for the year 2024-25 is Rs 3205876.16/-
5. Water analysis charges is 33140/-
6. WHR Water Treatment Plant for the year 2024-25 is Rs.3407881.85/-
7. New Ambient air quality station installed at tollgate and expensive is 2435652/-
8. River Water Cess and water analysis charges is Rupees 318452/-
9. RO plant maintenance charges is Rupees 61691.26/-

PART - I

Any other particulars in respect of environment protection and abatement of pollution.

- Parasakti Cement Industries Ltd., (PCIL) is conducting regular meeting for reviewing and taking up various improvements in the quality of the Safety and Environment.
- PCIL is conducting regular environmental monitoring to comply the conditions of APPCB/ MOEF.
- PCIL incurred an amount of Rs.38118772 /- towards the power consumption on pollution control equipment.

1. INTRODUCTION

M/s. Parasakti Cement Industries Limited has setup Cement manufacturing unit at Jettipalem Village, Rentachintala Mandal, and Palnadu District of AP. The Plant is established in the year of 2005. M/s. Parasakti Cement Industries Limited is manufacturing Ordinary Portland Cement (OPC) 53 grade, OPC 43 grade and PPC with a production capacity is 1.20 MT/A (Clinker) & 1.26 MT/A (Cement).

2. OBJECTIVE OF THE STUDY:

The objective of the present study is to review the performance of pollution control systems installed by the industry so as to identify efficient pollution prevention and control systems, which could be beneficial to both environment and its components. And also **Inserted by rule 2 of the Environment (Protection) second Amendment & Rules, 1992 vide G.S.R. 329 (E), dated: 13-3-1992.** Every person carrying on an Industry, operation or process requiring consent under section 25 of the water (prevention and control of pollution) Act 1974 (6 of 1974) or under section 21 of the Air (Prevention and Control of Pollution), Act 1981 (14 of 1981) or both or authorization under the Hazardous wastes (Management and Handling) Rules, 1989 issued under the Environmental (Protection) Act 1986 (29 of 1986) shall submit an environmental audit report for the financial year ending 31st March in Form – V to the concerned state pollution control board on or before the 30th day of September every year beginning 1993.

3. BENEFITS OF ENVIRONMENTAL AUDIT

Environmental audit creates awareness in the conservation of natural resources and helps to improve production safety and health. The benefits of audits are:

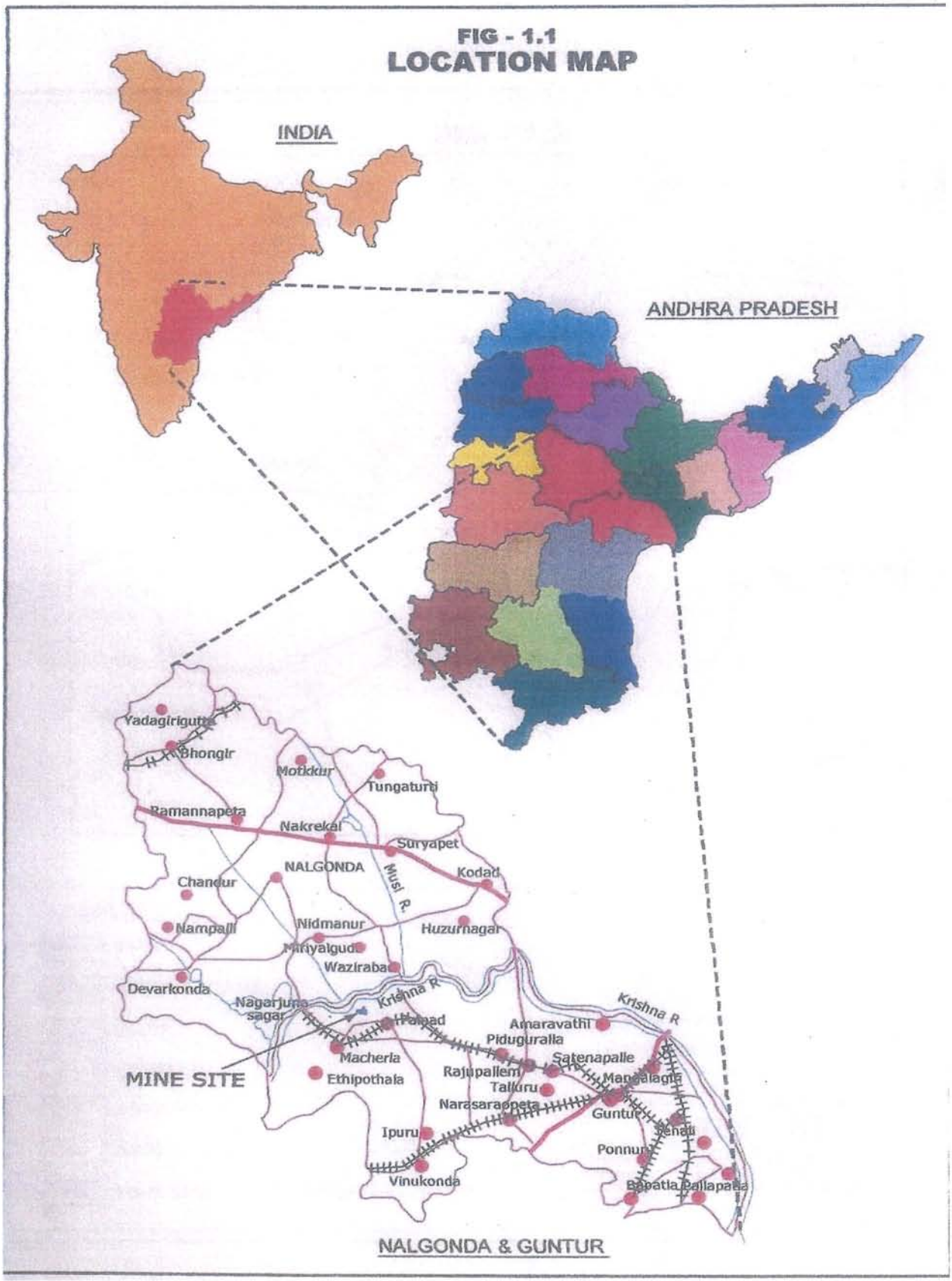
1. It helps in reduction of raw material consumption by way of waste minimization and adoption of recovery of waste and recycles the same.
2. Determined the performance of process systems and helps to improve the systems.
3. Efficiency of pollution control systems can be calculated.
4. This gives the awareness of environmental organization in the industry.
5. Data available will help the management for use in the plant modification and adopting pollution control for different types of technology.
6. It helps to identify pollution creating systems and exposure to it by the employees for taking remedial measures.
7. The management will be assisted in complying with local, regional and national laws regulations by adopting standards.
8. It helps to identify hazardous wastes, handling measures taken and exposure to litigation can be reduced.
9. To determine the impact on the surrounding environment due the disposal of its pollutants and identify suitable preventive measures.
10. Energy saving systems can be adopted by considering fuel consumption data.

M/s. Parasakti Cement Industries Limited has entrusted the task of preparation of Environmental Statement (Audit) to M/s. Universal Enviro Associates (UEA), Hyderabad. An in-depth study was conducted by UEA, to review the process efficiency, waste water generated and the present treatment systems, emissions generated and air pollution control equipment provided mode of solid waste collection and disposal and the other associated problems leading to the pollution and impact on environment.

4. LOCATION

The M/s. Parasakti Cement Industries Limited is situated in Jettipalm Village, Rentachintala Mandal, Guntur district of Andhra Pradesh. The Plant is situated 30 km away from Macharla by the side of Macharla – Piduguralla road. **The project site falls under the Latitude $14^0 35'$ - $14^0 45'$ of North and Longitude of $78^0 30'$ - $78^0 35'$ East.** The project area is rocky in nature. The site comes under arid zone. **The Location map and Plant layout are show in Fig. 1.**

FIG - 1.1
LOCATION MAP



POCESS DESCRIPTION:

The limestone is drilled, blasted and then loaded by hydraulic excavators into dumpers, which transports the limestone boulders to the crusher. After crushing it sent to stockpile.

The stages of cement manufacture at PCIL are as follows:

1.	Mining & Crushing of limestone	-	Stage 1
2.	Raw meal grinding	-	Stage 2
3.	Coal grinding	-	Stage 3
4.	Clinker Production (Pry process)	-	Stage 4
5.	Cement grinding	-	Stage 5
6.	Packing of Cement	-	Stage 6

1. Mining and Crushing of limestone

Lime for Parasakti Cement is mined at our captive limestone mine, Parasakti Limestone Mines and crushed in the compound impact crusher. The crushed limestone is stocked in the limestone stock pile. The stock pile bays are demarcated for high grade and low-grade limestone. Depending on the analysis the crushed limestone is stocked in the respective bays.

2. Raw meal Grinding

Raw meal is prepared by grinding limestone and additives in suitable proportions in Raw Mill. Raw Mill feed system consists of 4 hoppers. For maintaining uniform particle size in the ground raw meal, the raw mill system is equipped with a High efficiency separator. In the 4 hoppers, one hopper is meant for High grade limestone, second hopper for Low grade limestone, the third hopper for Iron ore and the fourth for Laterite. All the four

hoppers are equipped with weigh feeders. Proportioned and weighed quantities of raw materials are fed to the Raw mill to meet the quality requirement.

Tertiary crusher is installed after weigh feeders, for further reduction of limestone size before entering the raw mill.

Raw mill is a tube mill filled with required quantity of grinding media charged inside. Raw mill consists of a drying chamber for drying of raw materials and two grinding chambers. The ground material from 1st and 2nd chambers is drawn out of the mill with air sucked through raw mill fan. The ground material is discharged into an air side and is carried to high efficiency separator through air slides and bucket elevator. In the separator, the ground material is separated to finer and coarse fraction. Finer fraction, called raw meal is transported to Raw meal silo, a continuous flow silo by Belt Bucket Elevator or Vertical Pneumatic Pump.

The fine dust in the air is collected in a Cyclone and the air is sent to Bag House. The collected dust is mixed with raw mill product when raw mill is running and to a separate dust silo when raw mill is stopped. The dust in silo will be added to the raw mill product when the mill is running.

3. Fine Coal Grinding

Incoming raw coal is unloaded into a hopper. Truck unloading system is installed in the plant for coal unloading. The coal from the hopper is conveyed to the raw coal crusher. The crushed coal is stocked in the coal stock pile in different bays as per the grade of coal. Fine coal is prepared by grinding crushed coal. The coal mill system consists of a two chambered air swept tube mill (one drying chamber and one grinding chamber), grit separator and a bag house. The coal from the raw coal hopper is fed to the mill through

rotary table feeder. The dried coal from drying chamber then passes to grinding chamber filled with grinding media. Hot air from the Kiln cooler is utilized for the drying of coal. The powdered coal is swept to grit separator, by air because of the induced draft created by coal mill bag filter fan, where fines and coarse are separated. Coarse material is returned back to mill for further grinding and fines are swept to bag house where fines are collected and stocked in fine coal bins.

4. Production of Clinker

Clinker preparation is subdivided into 4 stages.

- Raw meal extraction,
- Preheating & Precalcination
- Burning (Clinkerisation)
- Cooling
- Recycling of Dust

Raw meal Extraction:

The material stored in continuous flow silo, which is storage cum blending silo. The inverted central cone silo creates a good blending effect on the raw meal. The silo is equipped with multiple gates that are operated in auto/manual mode. The material is extracted in a cycle of multiple gates opening at a time for fixed period. This cycle feeds homogenized raw meal to the preheater system. This extracted raw meal is called Kiln Feed.

The extracted raw meal is discharged in to kiln feed storage bin using air slides. From the storage bin, weighed quantity of kiln feed using solid flow meter is transported to preheater system by Belt Bucket Elevator or V.P. Pump.

Preheating & Pre-Calcinations:

The kiln feed is preheated and partly calcined by hot kiln exit gases in a tower of heat exchange cyclones called Preheater. The heat exchange between gas and the material takes place in the cyclones, in suspension of material and gas.

The preheater at PCIL is a 5-stage preheater equipped with precalcinator, called RSP (Reinforced Suspension Preheater). The material from the 4th stage of preheater is fed into the pre-calcinator called Swiri calciner. 60% of the fuel required for clinkerisation is fed into this calciner system along with hot recouped air from cooler called Tertiary air. The material from the precalciner goes to 1st stage of the preheater before entering the kiln. By the time it enters the kiln, the kiln feed attains about 80-95% of degree of calcinations.

Burning (Clinkersation):

The final clinkerisation of the kiln feed takes place in the rotary kiln. 40% of fuel required for clinkerisation is fed into the kiln for burning. The pre-calcined kiln feed entered from preheater is further heated in the rotary kiln to about 1350 - 1450^{0}C at which clinker form is formed.

Cooling:

The clinker produced in the kiln is cooled from 1100 - 1400^{0}C to 120-150^{0}C in the grate cooler by air quenching. The cooler is fitted with slotted grate plates. As the clinker moves on the grates towards the discharge end of the cooler, air is blowed from the bottom of the plates and cools the clinker. The hot air generated, is recouped and utilized for clinker burning as secondary air for the kiln and tertiary air for precalcinator.

Recycling of Dust:

The dust laden exhaust gases from the preheater are passed Reverse Air Bag House (RABH), where the fine dust is collected and clean gases are released into the

atmosphere. The dust collected is transported back to raw meal silo along with raw mill product. When the raw mill is not running this dust is collected in an intermediary dust silo and then mixed with the raw mill product, when raw mill is running.

5. Cement Grinding:

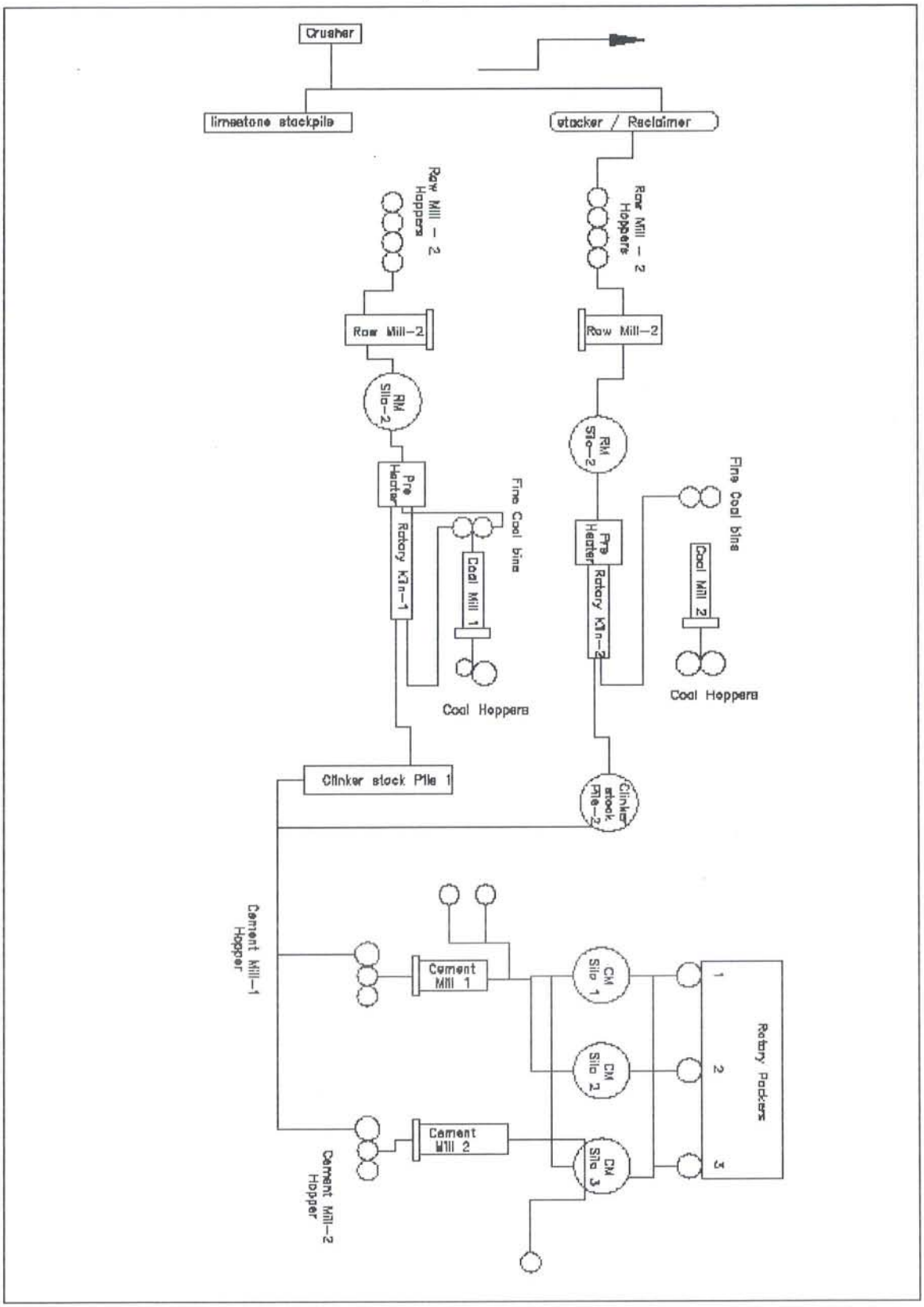
Cement is ground by grinding clinker, fly ash and gypsum in suitable proportions. Cement mill at PCIL are closed circuit ball mills. Each Cement mill is having of 3 hoppers (one for clinker, second for Gypsum and one for spare). For fly ash separate metallic storage silos are installed. Weighed quantity of Fly ash is extracted through solid flow meter from the bottom of the silo and pumped to high efficiency separator.

Weigh feeders are installed to every hopper, and Mills are equipped with high efficiency classifiers for better particle size distribution. Weighed & proportioned quantities of clinker, gypsum are fed into the cement mill from hoppers. The cement mill are two chambered mills. The ground cement and fly ash is fed to the separator by air slide and bucket elevator. In the separator, the ground material and fly ash is separated to finer and coarse fraction. Finer fraction is transported to four compartment silo by Bucket Elevator or Vertical Pneumatic Pump.

6. Dispatch of Cement

PCIL has electronic packers with eight spouts for packing the cement into bags and loading into the trucks.

Cement from the silos is extracted through gates and transported to the Hopper in Packer System. Bags are attached to the nozzle of the rotating electronic packer. Filled in bags are automatically discharged from the packer on to the belt conveyers and loaded in to the trucks.


Crusher
limestone stockpile
stacker / Reclaimer
Raw Mill – 2 Hoppers
Raw Mill – 2 Hoppers
Raw Mill–2
Raw Mill–2
RM Silo–2
RM Silo–2
Pre Heater
Pre Heater
Fine Coal bins
Fine Coal bins
Rotary Kiln–1
Rotary Kiln–2
Coal Mill 1
Coal Mill 2
Coal Hoppers
Coal Hoppers
Clinker stock Pile 1
Clinker stock Pile–2
Cement Mill–1 Hopper
Cement Mill 1
CM Silo 1
CM Silo 2
CM Silo 3
Rotary Packers
1
2
3
Cement Mill 2
Cement Mill–2 Hopper

6. WATER REQUIREMENT:

The total consumption is 1059.46 m^3 /day and the breakup details are given below:

1. Process consumption & Dust suppression - 177.98 m^3/day
2. Domestic - 148.96 m^3/day
3. WHR Consumption - 640.18 m3/day

Most of the process and cooling water will be evaporated / consumed. The domestic requirement includes requirements of colony, drinking as well as sanitation. The water requirement is being met from the bore wells.

7. POLLUTION CONTROL IN THE PLANT

The industry has given top priority for pollution prevention and control. Therefore all the sources that release particulate matter are provided with ESP & Bag filters for the control of particulate emissions into atmosphere. Tall stacks are provided as an effective measure for good atmospheric dispersion of the pollutants and air pollution control.

7.1 Waste water Sources and Monitoring

Most of the water consumed for process as well as cooling is consumed/ evaporated. The only source of wastewater is from sanitary facilities of the plant and colony is presently being sent to Sewage treatment plant to treat this wastewater. Discharges from the sewage treatment plant water characteristic meets the discharge standards of APPCB for on-land irrigation.

7.2 Air Pollution Control

7.2.1 Stack Emissions

The sources of air emissions are from Raw mills & Kiln, Raw mills and kiln, Cooler Stack, Cement Mill –I & II, Coal Mill. Stack emissions monitoring is carried out regularly for the parameters PM. The average values of stack emission data is given in table 7.1. It is

noticed from the collected emissions data that the parameters monitored are within the limits prescribed by AP pollution control Board.

Table 7.1

AIR POLLUTION CONTROL EQUIPMENTS		
UNIT – I		
S No.	**LOCATION**	**TYPE OF EQUIPMENT**
U1-1	RAW MILL & ROTARY KILN	REVERSE AIR BAG HOUSE
U1-2	COAL MILL	BAG HOUSE
U1-3	COOLER	ESP
U1-4	CEMENT MILL	ESP
U1-5	CEMENT MILL VENT	ESP
U1-6	LIMESTONE CRUSHER	BAG HOUSE
U1-7	LIMESTONE HOPPERS TOP	BAG HOUSE
U1-8	TERTIARY CRUSHER	BAG FILTER
U1-9	RAW MEAL SILO	BAG FILTER
U1-10	RAW MEAL SILO EXTRACTION	BAG FILTER
U1-11	COAL CRUSHER	BAG FILTER
U1-12	COAL TRANSFER POINT	BAG FILTER
U1-13	COAL FEED CIRCUIT	BAG FILTER
U1-14	CLINKER DISCHARGE ABOVE DBC	BAG FILTER
U1-15	CLINKER STOCK PILE SHAFT – I	BAG FILTER
U1-16	CLINKER STOCK PILE SHAFT – II	BAG FILTER
U1-17	CSP TO TRANSFER POINT	BAG FILTER
U1-18	CLINKER HOPPER TOP	BAG FILTER
U1-19	CEMENT SILO	BAG FILTER
U1-20	PACKING PLANT	BAG FILTER
U1-21	COAL MILL HOPPERS TOP	BAG FILTER
U1-22	PRE-HEATER TOP	BAG FILTER
U1-23	FLY ASH SILO TOP	BAG FILTER

AIR POLLUTION CONTROL EQUIPMENTS		
UNIT – II		
S No.	**LOCATION**	**TYPE OF EQUIPMENT**
U2-1	RAW MILL VENT	BAG FILTER
U2-2	KILN & RAW MILL	REVERSE AIR BAG HOUSE
U2-3	COOLER STACK	ESP
U2-4	COAL MILL VENT	BAG FILTER
U2-5	CEMENT MILL VENT	BAG HOUSE
U2-6	CEMENT MILL STACK	ESP
U2-7	TP-8 (@RMH-II FEEDING)	BAG FILTER
U2-8	RM HOPPERS TOP	BAG FILTER
U2-9	TERTIARY CRUSHER (RMH BOTTEM)	BAG FILTER
U2-10	RMH BOTTEM FOR WEIGH FEEDERS-3 NOS.)	BAG FILTER
U2-11	BLENDING SILO TOP – SILO VENT	BAG FILTER
U2-12	BLENDING SILO TOP – (DB+BE/VP/PUMP)	BAG FILTER
U2-13	SILO DISCH. BIN (KILN FEED BIN)	BAG FILTER
U2-14	PREHEATER TOP (BE/VP/PUMP VENT)	BAG FILTER
U2-15	COOLER DISCHARGE ABOVE DBC	BAG FILTER
U2-16	CSP TOP	BAG FILTER
U2-17	CSP EXTRACTION – 2 NOS.	BAG FILTER
U2-18	TP-9 (@CSP OUTLET)	BAG FILTER
U2-19	TP-10 (@CMH. FEEDING CONV.)	BAG FILTER
U2-20	CEMENT MILL HOPPERS TOP	BAG FILTER
U2-21	CEMENT MILL HOPPERS BOTTEM (WEIGH FEEDERS)	BAG FILTER
U2-22	CEMENT SILO TOP (SILO VENT)	BAG FILTER
U2-23	CEMENT SILO TOP (BE/VP PUMP+DB)	BAG FILTER
U2-24	PACKING PLANT (PACKER #2)	BAG FILTER
U2-25	TP-II(@COAL TRANSFER POINT)	BAG FILTER
U2-26	RAW COAL HOPPERS TOP	BAG FILTER
U2-27	COAL MILL BUILDING – 3 NOS.	BAG FILTER
U2-28	@TP -4 (BC-1 SPLITTING)	BAG FILTER
U2-29	@TP-5 (LSP-II EXTRACTION)	BAG FILTER
U2-30	@TP-6 (STACKER FEEDING TP)	BAG FILTER
U2-31	@TP-7 (RECLAIMER DISCHARGE. TP)	BAG FILTER
U2-32	ADDITIVE DUMP HOPPER	BAG FILTER
U2-33	ADDITIVE DUMP CRUSHER	BAG FILTER
U2-34	@CMB-I (SEPERATOR CHIMNEY – TAPPING)	BAG FILTER
U2-35	FLY-ASH SILO TOP	BAG FILTER
U2-36	CEMENT SILO #3 TOP (SILO VENT)	BAG FILTER
U2-37	CEMENT SILO #3 TOP (BE/VP/PUMP VENT)	BAG FILTER
U2-38	PACKING PLANT (PACKER #3)	BAG FILTER
U2-39	EXTENDED TUNNEL CLINKER FEED POINT	BAG FILTER

The emission from Cooler, Kiln, cement mill is passed though ESP which reduces the particulate matter to the minimum levels. The emission from Coal Mill, Kiln and Cement Mill are passed through Bag filters.

7.2.2 Ambient Air Quality

Ambient air quality monitoring is carried out regularly at mines to know the status of the ambient air quality.

Ambient air quality is monitored for 24 hours at each station for the estimation of PM_{10}, $PM_{2.5}$, SO_2, NOx. Estimated average values for the parameters monitored are represented in the Table 7.2 the analyzed values for PM_{10}, $PM_{2.5}$, SO_2 and NO2 are within limits prescribed by APPCB.

Table 7.2
AVERAGE VALUES OF AMBIENT AIR QUALITY DATA

Location	Parameters			
	PM_{10}	**$PM_{2.5}$**	**SO_2**	**NO_2**
Near Security gate	58.83	25.50	12.24	13.20
Near Cement mill area	60.67	27.00	12.59	13.57
Near Crushing area	61.08	27.08	12.47	13.58
Colony	51.83	22.92	11.97	12.93

Note: All the values are expressed as ($\mu g/m^3$)

7.2.3 Noise Pollution

Noise Levels are measured at various places in the factory premises by using a sound level meter. The noise levels were found to be within the limits prescribed by APPCB. The management provided ear muffs for workers who are exposing to high noise levels. The industry has provided industrial type silencers for Diesel Generator sets for controlling noise pollution.

Table
Ambient Noise Levels

S No.	Location	Noise Levels in dB(A) Day Time	Noise Levels in dB(A) Night Time
1	Near Raw Mill	65.60	57.68
2	Near QC Lab	58.62	51.28
3	Near Time Office	56.44	48.02
4	Near Colony	48.58	41.84

8. GREENBELT DEVELOPMENT

DETAILS OF SPECIES FOR GREEN BELT DEVELOPMENT FOR THE YEAR 2023-24	
PLANT AREA	
AREA IN ACRES	0.74 Acre
NO. OF PLANTS	450
NAME OF THE SPECIES	Dubai,Feltoform, Ganuga
Survival rate (%)	90%
WATER SUPPLY	Drip system and Water Tanker

9. HOUSEKEEPING:

Proper cleaning of the different sections is required to maintain healthy environment, to avoid unnecessary loss of product in the form of dust emission and polluting surrounding environment. Water spraying is done inside the factory premises to control fugitive emissions from coal yard and raw material storage yards. Stores to be maintain properly. Factory premises are to be clean and green to have good housekeeping' **M/s. Parasakti Cement Industries Ltd**, is keeping their plant and premises neat tidy. Housekeeping has been found to be well.

ANEXURE-1
MONTH WISE INPUT WATER CONSUMPTION FOR THE YEAR 2024-2025

MONTH	RIVER	SUMP	BORE-1,2,3	TOTAL
Apr-24	36500	5	2860	39365
May-24	27370	0	0	27370
Jun-24	22130	10159	0	32289
Jul-24	19240	9487	0	28727
Aug-24	17980	13381	0	31361
Sep-24	13850	10177	0	24027
Oct-24	15350	13750	0	29100
Nov-24	17210	6507	0	23717
Dec-24	18940	19618	2192	40750
Jan-25	19580	9935	0	29515
Feb-25	20660	14469	2495	37624
Mar-25	34410	3368	2934	40712
TOTAL	263220	110856	10481	384557

ANEXURE-1 MONTH WISE WATER CONSUMPTION FOR THE YEAR 2024-25			
MONTH	**INDUSTRIAL(KL)**	**DOMESTIC(KL)**	**WHR(KL)**
Apr-24	6876	4420	25668
May-24	6343	4630	14508
Jun-24	5153	4500	19859
Jul-24	4934	4640	16565
Aug-24	4190	4560	19898
Sep-24	2947	4350	14218
Oct-24	2119	4600	19797
Nov-24	5062	4500	11374
Dec-24	7223	4650	26020
Jan-25	6274	4670	15672
Feb-25	6711	4210	24036
Mar-25	7130	4640	26049
TOTAL	64962	54370	233665

MONTH WISE EFFLUENT WATER CONSUMPTION FOR THE YEAR 2024-2025

MONTH	STP(KL)	N-PIT(KL)
Apr-23	2025	1000
May-23	1677	2620
Jun-23	1828	5010
Jul-23	1645	1110
Aug-23	2784	3294.5
Sep-23	2817	5545.5
Oct-23	1851	6068.3
Nov-23	2349	5800.9
Dec-23	1759	4010.2
Jan-24	1701	4036.58
Feb-24	1455	2954.2
Mar-24	2499	4643.5
TOTAL	**24390**	**46093.68**

RAWMATERIAL CONSUMPTION FOR THE YEAR OF 2024-25
Quanty in MT

Month	LIMESTONE	IORN ORE	LATERITE	REDMUD	DOLOMITE	GYPSUM-S	GYPSUM	FLYASH	LIMESTONE - PIs	Coal Imp	Pvt. Coal	Pet Coke
Apr-24	108160	1690	3214	-	1132	5575	2369	6603	2411	7909	1187	2728
May-24	49077	1270	1350	-	519	5412	2224	6175	2500	2216	1810	1175
Jun-24	82991	1630	2703	-	881	5905	2450	6491	2799	6787	499	2060
Jul-24	76764	1525	2245	-	812	5595	2062	6246	2498	2914	1314	3465
Aug-24	85752	35	5849	-	926	6190	2617	6499	2855	5187	1974	2468
Sep-24	60471	909	2858	-	649	1930	1920	5214	2025	4780	178	1573
Oct-24	91614	370	5190	-	982	4382	2143	6077	2329	3849	3731	2058
Nov-24	38608	862	1503	-	413	4847	2209	5814	2399	2091	1240	580
Dec-24	120834	2264	3455	1179	1213	4252	2858	6946	3306	4269	4689	3568
Jan-25	58558	1079	1803	207	613	2495	2517	6528	2649	1556	1892	2268
Feb-25	102562	1757	3599	1047	1100	2001	2902	6960	3345	6128	2128	3256
Mar-25	112963	2096	4231	0	662	4816	2823	7039	3405	2647	5882	3868
TOTAL	**988354**	**15487**	**37999**	**2433**	**9902**	**53399**	**29094**	**76592**	**32521**	**50334**	**26524**	**29068**

CLINKER PRODUCTION, CONSUMPTION & SALES FOR THE YEAR 2024-25 (in MT)			
MONTH	**Production**	**Consumption**	**Sales**
Apr-24	75046	52733	0
May-24	34496	52979	0
Jun-24	59532	58647	0
Jul-24	52443	52057	0
Aug-24	60401	61503	0
Sep-24	43011	47141	0
Oct-24	65405	50067	0
Nov-24	26251	51800	0
Dec-24	84220	71464	0
Jan-25	41685	61972	0
Feb-25	72543	72631	0
Mar-25	77789	72982	0
TOTAL	**692822**	**705978**	**0**

CEMENT PRODUCTION DETAILS 2024-25 (in MT)					
MONTH	**OPC 43GR**	**OPC 53GR**	**PPC**	**SRPC**	**TOTAL**
Apr-24	1192	47041	21458	0	**69691**
May-24	3249	46678	17683	1680	**69290**
Jun-24	3824	52148	18599	1721	**76292**
Jul-24	3236	46706	18516	0	**68458**
Aug-24	2283	54748	20487	2146	**79664**
Sep-24	1096	39389	16185	1560	**58230**
Oct-24	1359	45242	17543	854	**64998**
Nov-24	2338	45600	16994	2137	**67069**
Dec-24	607	65544	20579	2096	**88826**
Jan-25	1405	54086	19060	1735	**76286**
Feb-25	875	66004	20010	950	**87839**
Mar-25	2472	65602	22169	823	**91066**
TOTAL	**23936**	**628788**	**229283**	**15702**	**897709**

EXPENDITURE ON POLLUTION CONTROL EQUIPMENT & MONITORING 2024-25		
1	**Plant Equipment**	2103958.1
2	**Whrpp Equipment**	3407881.85
3	**Old stp &New STP**	3205876.16
4	**RO plant**	61691.26
5	**New AAQ Station**	2435652.33
6	**Monitoring charges**	252000.00
7	**Geen belt**	105698.59
8	**water anaylasis chares**	33140.00
9	**water cess**	318452.00
	GRAND TOTAL	11924350.29

BREAK UP DETAILS OF EXPENDITURE ON POLLUTION CONTROL EQUIPMENT & MONITORING 2024-25

1	PLANT	LS RAISING GENERAL	LSR - GREEN BELT PLANTATION	64013.61
2		RAW MEAL-1	RM1 - AUX.BAG FILTERS WITH FANS: TERTIARY CRUSHER BF (EM 165)	1165.14
3		PRE-HEATER-1	PH1 - RABH BAG HOUSE-RABH ALL CHAMBERS ASSY (KM 010)	30990.55
4		COAL MILL-1	CO1 - BAG FILTERS WITH FANS: BAG FILTER - RAW COAL HOPPER (ZM 114)	1064.9
5		COAL MILL-1	CO1 - BAG FILTERS WITH FANS: BAG FILTER -KC&PC VENTING (ZM 160)	450
6		CEMENT MILL-1	CM1 - AUX.BAG FILTERS WITH FANS: BAGFILTER-SILO-1 TOP (NM156)	23387
7		CEMENT MILL-1	CM1 - AUX.BAG FILTERS WITH FANS: BAGFILTER-TP3 (NA104)	3826
8		CEMENT MILL-1	CM1 - ELECTRO STATIC PRECIPITATORS: ESP CHAMBER ASSY	13986.65
9		CEMENT MILL-1	CM1 - ELECTRO STATIC PRECIPITATORS: ESP FAN (NM137)	216566.03
10		CEMENT MILL-1	CM1 - ELECTRO STATIC PRECIPITATORS: ESP RAL-2 (NM145)	81.88
11		CEMENT MILL-1	CM1 - ESP PANELS: CEMENT MILL-1 ESP CHAMBER 1 (NA140)	2330.98
12		CEMENT MILL-1	CM1 - ESP PANELS: CEMENT MILL-1 ESP CHAMBER 2 (NA141)	332.22
13		CEMENT MILL-1	CM1 - ESP TRANSFORMERS: TRANSFORMER -1	224.93
14		CEMENT MILL-1	CM1 - ESP TRANSFORMERS: TRANSFORMER -2	89.67
15		RAW MEAL-2	RM2 - AUX.BAG FILTERS WITH FANS: HOPPER TOP-2 (E2M 111)	18000
16		RAW MEAL-2	RM2 - AUX.BAG FILTERS WITH FANS: LOW GRADE WEIGH FEEDR (E2M 124)	2268
17		RAW MEAL-2	RM2 - AUX.BAG FILTERS WITH FANS: RAW MILL TOP-1 (E2M 184)	947.6

18		RAW MEAL-2	RM2 - AUX.BAG FILTERS WITH FANS: RAW MILL TOP-2 (E2M 198)	16819
19		RAW MEAL-2	RM2 - AUX.BAG FILTERS WITH FANS: TERTIARY CRUSHER (E2M 115)	1401.58
20		RAW MEAL-2	RM2- MAIN BAG HOUSE: BAG FILTER ASSY	18180
21		RAW MEAL-2	RM2- MAIN BAG HOUSE: BF DISCH RAL-1 (E2M 161)	1290
22		RAW MEAL-2	RM2- MAIN BAG HOUSE: BF DISCH RAL-2 (E2M 162)	3518.62
23		RAW MEAL-2	RM2- MAIN BAG HOUSE: BF FAN ASSY (E2M 165)	3953.7
24		PRE-HEATER-2	PH2 - AUX.BAG FILTERS & FANS: BE FEED BAGFILTER (K2M201)	4412.46
25		PRE-HEATER-2	PH2 - AUX.BAG FILTERS & FANS: KILN FEED BIN BAGFILTER (K2M106)	11212.67
26		PRE-HEATER-2	PH2 - POLLUTION MONITORING EQPT: KILN-2 GAS ANALYZER SO2, NOX (K2SO2/K2NOX)	8150
27		PRE-HEATER-2	PH2 - RABH BAG HOUSE: RABH CHAMBERS ASSY	57848.48
28		PRE-HEATER-2	PH2 - RABH BAG HOUSE: RABH DISC RALS	2625.91
29		PRE-HEATER-2	PH2 - RABH BAG HOUSE: RABH FAN ASSY (K2M010)	1697.9
30		KILN-2	CL2 - ESP PANELS: ESP RAPPING SYSTEM PANEL (L2A121)	1875
31		KILN-2	PH2 - RABH BAG HOUSE: RABH CHAMBERS ASSY	6015
32		KILN-2	PH2 - RABH BAG HOUSE: RABH DISC RALS	975
33		PLANT GENERAL	CO2- MILL BAG HOUSE ASSY: BF DISCH RAL-2 (Z2M135)	219.52
34		COOLER-2	CL2 - AUX.BAG FILTERS WITH FANS: DPC DISCH BF-1 (L2M128)	18571.81
35		COOLER-2	CL2 - ELECTRO STATIC PRECIPITATORS: ESP CHAMBERS ASSY	17454.06

36		COOLER-2	CL2 - ELECTRO STATIC PRECIPITATORS: ESP FAN	37776.9
37		COOLER-2	CL2 - ELECTRO STATIC PRECIPITATORS: ESP RALS	71872.24
38		COOLER-2	CL2 - ESP DUST CONV.SYSTEM: ESP DISCH FINE DUST BIN	969.58
39		COOLER-2	CL2 - ESP PANELS: COOLER ESP CHAMBER-1 (L2A118)	1827.91
40		COOLER-2	CL2 - ESP PANELS: ESP RAPPING SYSTEM PANEL (L2A121)	2198.5
41		COAL MILL-2	CO2 - AUX.BAG FILTERS WITH FANS: BAGFILTER-KC VENTING (Z2M109)	67.25
42		COAL MILL-2	CO2 - AUX.BAG FILTERS WITH FANS: BAGFILTER-KC&PC BIN (Z2M161)	6080
43		COAL MILL-2	CO2 - AUX.BAG FILTERS WITH FANS: BAGFILTER-TP11 (Z2M106)	23.24
44		COAL MILL-2	CO2 - AUX.BAG FILTERS WITH FANS: BAGFILTER-TP2 (ZM112)	5500
45		COAL MILL-2	CO2- MILL BAG HOUSE ASSY: BF DISCH RAL-2 (Z2M135)	129.02
46		COAL MILL-2	CO2- MILL BAG HOUSE ASSY: BF FAN ASSY (Z2M137)	450
47		COAL MILL-2	CO2- MILL BAG HOUSE ASSY: MILL MAIN BAGFILTER ASSY	55665.04
48		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: BAGFILTER AT CSP-II TUNNEL-1 (N2M100)	44.83
49		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: BAGFILTER FAN AT TP-9 (N2M103)	521.92
50		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: CLINKER HOPPER TOP BAGFILTER (N2M-111)	45227.92
51		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: ESP CHIMNEY O/L BAGFILTER	41391
52		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: SILO-2 TOP BAGFILTER-1 (NA165)	1125.55
53		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: SILO-2 TOP BAGFILTER-2 (N2M188)	16800

54		CEMENT MILL-2	CM2 - BAG FILTER WITH FANS: WEIGHFEEDER BAGFILTER (N2M185)	19775.08
55		CEMENT MILL-2	CM2 - ELECTRO STATIC PRECIPITATORS WITH FAN: ESP FAN ASSY (N2M012)	21495.89
56		CEMENT MILL-2	CM2 - ELECTRO STATIC PRECIPITATORS WITH FAN: ESP RAL-4 (N2M177)	21805.62
57		CEMENT MILL-2	CM2 - ESP PANELS: ESP RAPPER PANEL (N2A154)	400
58		PLANT GENERAL	PG - SWEEPING MACHINE-1	64749.56
59		PLANT GENERAL	PG - SWEEPING MACHINE-2	442012.96
60		PLANT GENERAL	PG - IND. VACUUM CLEANER	2813.8
61		QC-LABORATORY	QC - DUST TANKER AP39UC6295	12054.7
62		PLANT GENERAL	PG - POLLUTION MONITORING EQPT: MAIN GATE AAQ STATION (MGAAQ)	675233.72
63	**PLANT TOTAL**			**2103958.1**
64	**WHRPP**	WHRPP	WHR -6.6KV VCB	25444.78
65		WHRPP	WHR- ALTERNATOR	107.4
66		WHRPP	WHR- AQC BOILER	1124172.47
67		WHRPP	WHR- BOP PIPING	8009
68		WHRPP	WHR- CHAIN CONVEYORS	27921.53
69		WHRPP	WHR- COMPRESSOR	65834.86
70		WHRPP	WHR- CONDENSOR	4990.59
71		WHRPP	WHR- CONTROL PANEL	550
72		WHRPP	WHR- COOLING TOWER	731227.27
73		WHRPP	WHR- GENERAL	51247.36
74		WHRPP	WHR- LIGHTING	24403.37
75		WHRPP	WHR- LT MOTORS	9894.57
76		WHRPP	WHR- PH BOILER	79912.28
77		WHRPP	WHR- PLC SYSTEM	550
78		WHRPP	WHR- PRECOLLECTOR	104821.43
79		WHRPP	WHR- RAW WATER MCC PANEL	7103.83
80		WHRPP	WHR- ROTORY AIR LOCKS	1845.18
81		WHRPP	WHR- SAFETY	7288.19
82		WHRPP	WHR- STEAM TURBINE	76819.84
83		WHRPP	WHR- UTILITIES	22100
84		WHRPP	WHR- WATER TREATMENT PLANT	1003249.98
85		WHRPP	WHR- WEIGH FEEDER	4367.67
86		PLANT GENERAL	WHR- WATER TREATMENT PLANT	26020.25
87	**WHRPP TOTAL**			**3407881.85**

88	**Green belt**	**PLANT GENERAL**	**PG - GREEN BELT**	**105698.59**
89	**STP**	CAPEX	MBBR TYPE SEWAGE TREATMENT PLANT	1650000.00
90		FACILITIES	WEL - STP-2	11598.52
91		CAPEX	WEL - STP-2	1426152.54
92		FACILITIES	WEL - STP	115646.22
93		PLANT GENERAL	WEL - STP	2478.88
94				**3205876.16**
95	**RO**	FACILITIES	WEL - DRINKING WATER TREATMENT PLANT	**61691.26**
96	**NEW AAQ STATION**	CAPEX	ONLINE AMBIENT AIR QUALITY MONITORING STATION	2230000.00
97		PLANT GENERAL	PG - POLLUTION MONITORING EQPT: TOLL GATE AAQ STATION (TGAAQ)	91152.33
98		CAPEX	PG - POLLUTION MONITORING EQPT: TOLL GATE AAQ STATION (TGAAQ)	114500
99	**NEW AAQ STATION**			**2435652.33**
100			**Pollution monitoring Charges by third party BS Envitech**	252000.00
101			**water analysis charges**	33140.00
102			**Water cess**	318452.00
GRAND TOTAL				**11924350.29**