



B.S. ENVI - TECH PVT. LTD.
CONSULTANTS - ENVIRONMENT & ENERGY

BSET/ENV/PCIL/TLC/AMC/PLANT

DATE: 04.09.2019

To

Mr. M. Subbareddy
Sr. DGM P & QC
M/s Penna Cement Industries Ltd,
(Talaricheruvu Works),
Talaricheruvu Village, Tadipatri Mandal,
Anantapur Dist, Andrapradesh.

Kind Attn.: Shri. M. Subbareddy.

Ref : your work order No PCIL: BSE: WO: TLC (Plant): 19-20 Dated
31-03-2019

Sub : Environmental Audit Statement (Form-V) for Talaricheruvu
Cement Plant for the Financial Year 2018-2019 - Reg.

Dear Sir,

We are pleased to enclose Environmental Audit Statement (Form-V) for Talaricheruvu Cement Plant for the Financial Year 2018-2019 along with our invoice.

We kindly request you to acknowledge the receipt of the above and release the payment at the earliest

Thanking you,

Very truly yours,

For **B.S.Envi-Tech Pvt.Ltd,**

G.Chandramouli.
Authorized Signatory
Encl: As above

ENVIRONMENTAL AUDIT STATEMENT

[FORM-V]

for

2.20 MTPA CEMENT PLANT

of

PENNA CEMENT INDUSTRIES LIMITED.,

Submitted to

**ANDHRA PRADESH STATE
POLLUTION CONTROL BOARD**

**FOR THE FINANCIAL YEAR
2018 - 2019**

By

PENNA CEMENT INDUSTRIES LIMITED.

**Talaricheruvu Village, Tadipatri Mandal,
Anantapur District, Andhra Pradesh**

Tele No: 08558-286055/286066, Fax: 08558-286044

ENVIRONMENTAL AUDIT STATEMENT



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INTRODUCTION



1.0 INTRODUCTION

Penna Cement Industries Ltd., [PCIL] a public limited company is operating a Cement Plant of 2.20 MTPA Capacity [Cement] at Talaricheruvu Village, Tadipatri Mandal of Ananthapur District, Andhra Pradesh.

Penna Cement Industries Ltd., [PCIL] has retained **M/s B.S.Envi-Tech Pvt. Ltd., [BSET]** to carry out the assignment of Environmental Audit Statement for the Financial Year 2018-2019. This report presents details of the same.

1.1 Location

The Cement Plant is located near Talaricheruvu Village, Tadipatri Mandal of Anantapur District in Andhra Pradesh. Location map and Key plan of the Plant is shown as **Fig - 1 & Fig - 2**. Salient Feature of the plant site is given in **Table - 1.0**.

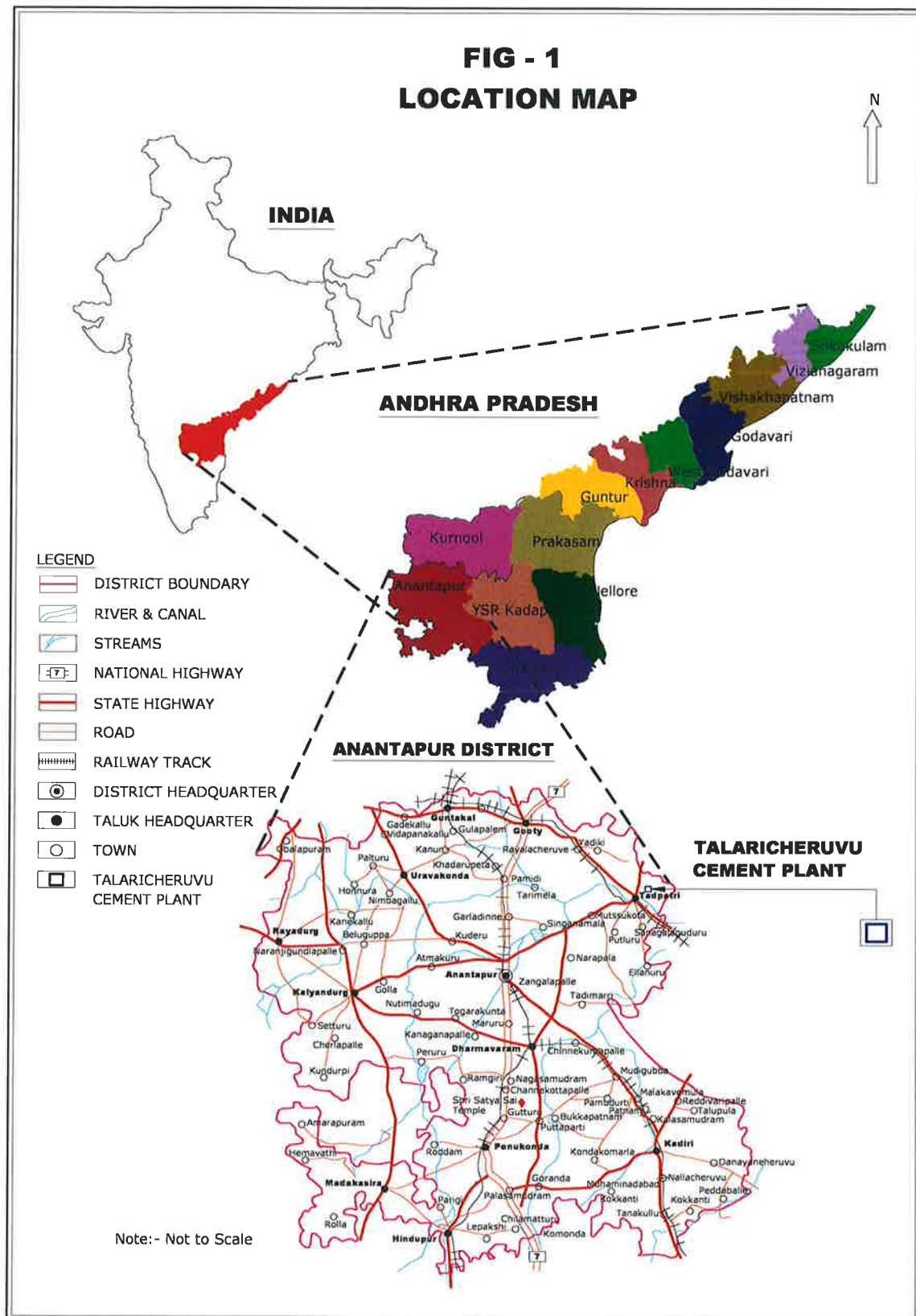
Fig - 3 shows the 10 km radius map of the Plant site

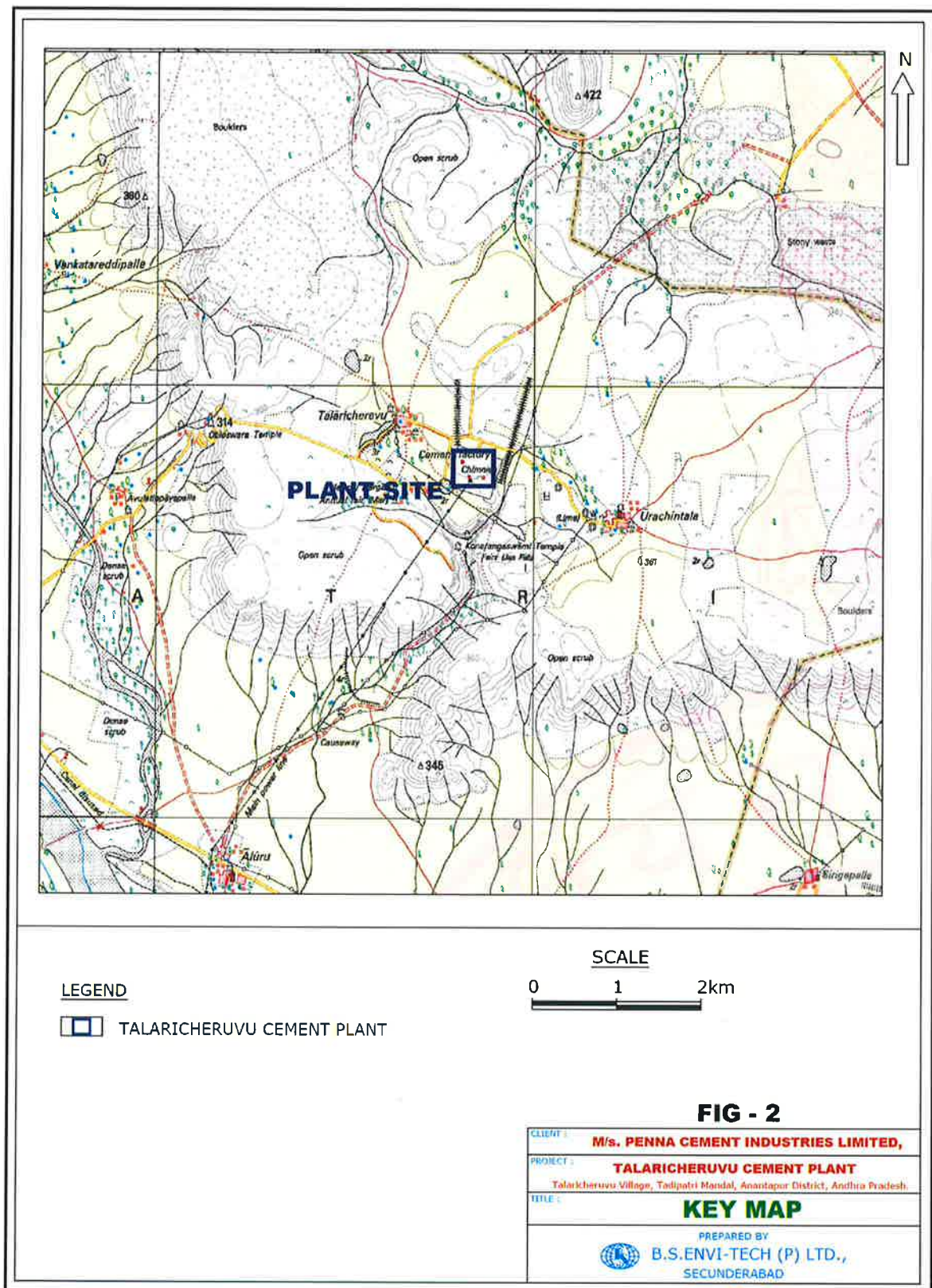
The plant site is located at 14° 57' 4.39" North latitude and 78° 4' 35.98" East longitudes with an average elevation of about 355 m above msl. The plant site is covered in Survey of India toposheet no 57J/1. Penna River flows at a distance of about 6 km from the plant site. The terrain around the plant site is flat with an average msl of 380 m. The surface relief of the study area of 10km is about 212 m.

PCIL is surrounded by mine area in the Northern direction, Talaricheruvu Village - 0.6 km in the NW direction, open areas in the East and barren lands in the other directions. The Captive Limestone mines are located within 4.2km distance of the plant site.

The plant site is well connected with both road and rail. The nearest Railway Line is connecting Guntakal - Kadapa is at a distance of 9.6 km - SW. The nearest railway station to the plant site is Tadipatri RS is located at a distance of at 11.3 km in WSW direction. 12km connecting Mumbai - Chennai - Hyderabad. The main approach road to the plant site is from Tadipatri town.

The National Highway (NH-7) connecting Hyderabad - Bangalore is at a distance of 50.3 km - W direction.





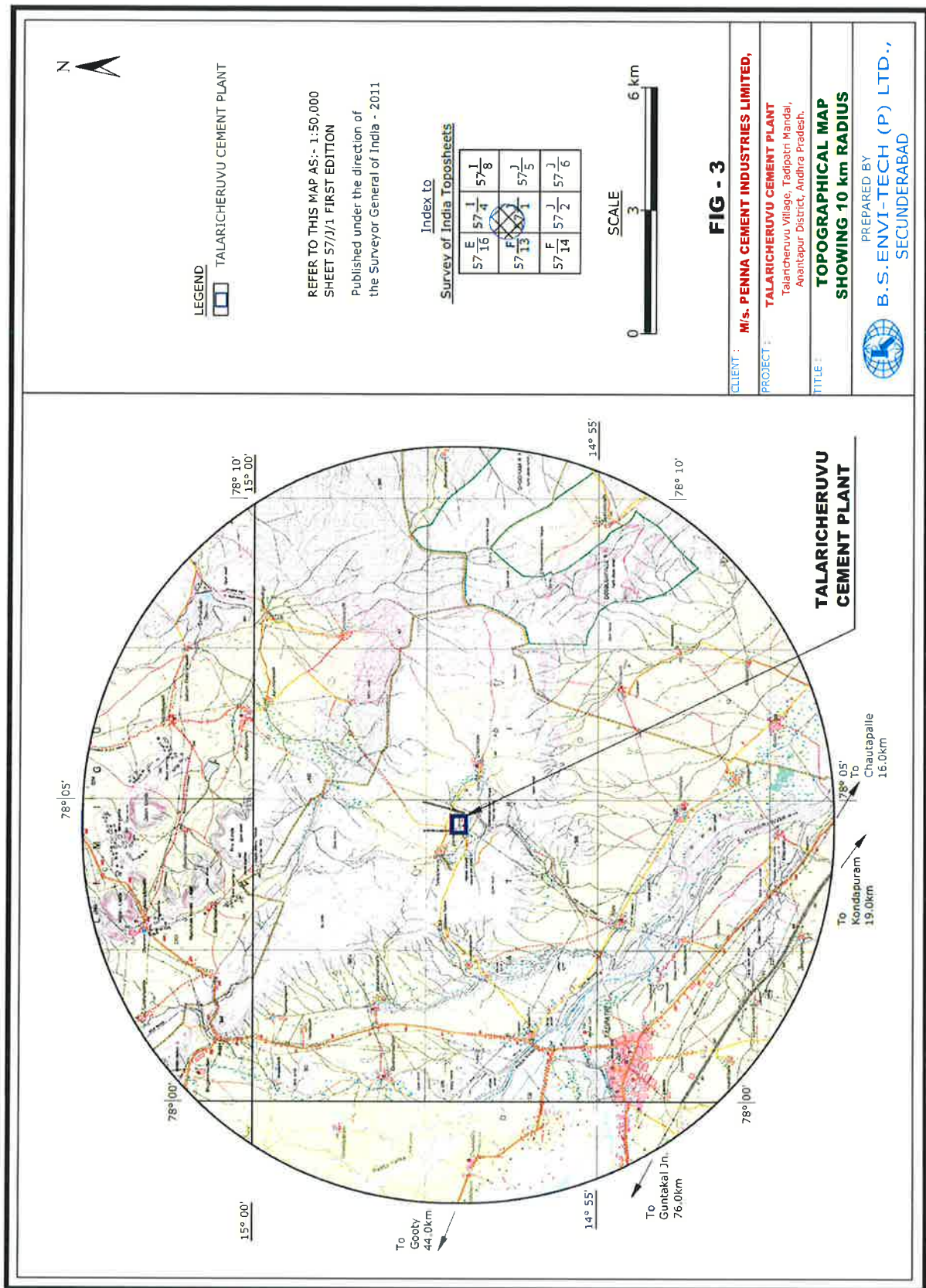


Table 1.0
SAILENT FEATURES OF THE PLANT

1.	Altitude	355 – M above MSL
2.	Longitude	78° 4' 35.98" East
3.	Latitude	14° 57' 4.39" North
4.	IMD Station	Anantapur – 60 km - SW
5.	District Head Quarter	Kurnool – 97.0 km - N
6.	Maximum day Temperature	42.2
7.	Minimum day Temperature	11.1
8.	Relative humidity	23-76
9.	Annual rainfall	561.0 mm
10.	Land availability	100 acres Plant/Colony Area Limestone mine – 507.08 acres at Korumanipalli
11.	Topography	Plant area is located in a flat terrain Study area is undulating (Surface relief of the area is 212 m)
12.	Soil type	Sandy loam
13.	Nearest Highway	The National Highway (NH-7) connecting Hyderabad – Bangalore is at a distance of 50.3 km – W direction.
14.	Nearest Railway station	The nearest Railway Line is connecting Guntakal – Kadapa is at a distance of 9.6 km – SW. Tadipatri RS is located at a distance of at 11.3 km in WSW direction.
15.	Nearest city	Anantapur – 60 km - SW
16.	Nearest Industries	M/s Ultratech Cements to the plant at a distance of 9.0 km - NW
17.	Nearest village	Talaricheruvu 0.6 km in NW direction
18.	Nearest Airport	Bangalore International Airport - 198 km - SSW
19.	Nearest Reserve forest	Dobbudapalle Reserve forest (scrub forest) – 5.5 km SE
20.	Nearest Sanctuary	None within 10 km
21.	Nearest national Park	None within 10 km
22.	Historical places	None within 10 km

FORM - V



FORM -V
(See rule-14)

As per Rule-14 of Environmental [Protection] Rules, 1986 and amendments thereof
Environmental Audit report for the financial year ending the 31st March_2019

PART – A

- i) Name and address of the M/s Penna Cements Industries Ltd.,
owner/occupier of the Plot No. 705, Lakshmi Nivas,
industry, operation or process Road No – 3, Banjara Hills,
Hyderabad – 500 034
Phones:040-44565100
FaxNo:040-23355941,23328073,23353947

Factory:

Talaricheruvu Village, Tadipatri Mandal,
Ananthapur District,
Andhra Pradesh 515415
Phone: 08558-286055, 286066
Fax: 08558-286044

- ii) Industry category
Primary: (STC Code) Primary
Secondary: (STC Code)
- iii) Production Capacity **2.20 MTPA [Unit -I & II]**
- iv) Year of Establishment September 1994 **[1360 TPD-UNIT-I]**
March 2000 **[1360 TPD-UNIT-II]**
March 2008 **[2.20 MTPA]**
- v) Date of the last September-2018
environmental audit report
submitted

PART – B

- | | | | |
|----|-------------------|-----------------------------------|----------------------------------|
| i) | Water Consumption | During previous
Year 2017-2018 | During current
Year 2018-2019 |
| | Cooling (Process) | 146.04 m ³ /day | ----- m ³ /day |
| | Domestic | 220.19 m ³ /day | ----- m ³ /day |

S.No	Name of Product			
i)	Raw material consumption			
S.No	Name of raw material	Name of products	Consumption of raw material per unit of output (Tonnes)	
			During the Previous financial year 2017-2018	During the financial year 2018-2019
1	Limestone	Clinker	1.369	1.366
2	Bauxite		0.054	0.079
3	Iron ore		0.029	0.019
4	Coal		0.103	0.098
5	Gypsum	OPC Cement	0.037	0.033
6	GGBS		0.153	0.031
7	Fly Ash	PPC Cement	0.328	0.345

Note: Month wise raw material Consumption is given in ANNEXURE -I.

PART – C Pollution Generated (Parameters as specified in the consent issued)				
i)	Pollutants	Quantity of pollutant discharged (mass/day) (Avg.)	Concentration of pollutant discharges (mass/volume) (Avg.)	Percentage of variation from prescribed standards with reasons
a) Water		NIL		All the values are well within the limits stipulated by APPCB
b) Air (Stack Quality)(UNIT – I)		Tons/ day	mg/Nm³	
1.	Kiln/Raw mill, ESP	0.030	5.4	
2.	Cement mill, ESP	0.013	7.37	
3.	Coal mill, Bag Filter	0.012	14.0	
4.	Cooler, ESP	0.031	14.3	
b) Air (Stack Quality)(UNIT –II)		Tons/ day	mg/Nm³	
1.	Kiln/Raw mill, Bag house	0.122	19.2	
2.	Cement mill, ESP	0.013	22.5	
3.	Coal mill, Bag Filter	0.010	14.3	
4.	Cooler, ESP	0.079	23.3	
5.	VRM, Bag house	0.092	14.7	

Pollutant	Tons/Day	Tons/ton of clinker	Tons/ton of cement
Particulate matter emission From all pollution control systems			
UNIT - I	-	-	-
UNIT -II			
SO ₂ from Kiln UNIT - I	-	-	-
SO ₂ from Kiln UNIT - II			
NO _x from Kiln UNIT - I	1.034	0.00012	0.00010
NO _x from Kiln UNIT -II			

Note: Month wise reports of stack for Unit-I & II are given in Annexure -II.

c) Ambient Air quality [Average Concentration [µg/m³]]					
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Well within the limits as per APPCB
Near Security Gate	65.1	29.0	9.7	11.0	
Colony Guest House	51.0	22.6	9.9	11.1	
Near Crusher	69.0	32.0	10.2	11.4	
Near Packer	65.9	30.0	11.1	12.8	
Near Cement Mill	64.0	29.0	12.1	13.3	
Talaricheruvu Village	37.9	18.0	10.1	11.9	
Urichintala Village	41.1	19.7	9.8	11.4	
Tollamadugu Village	40.0	17.0	10.3	11.6	

Note: Month wise reports of Ambient Air Quality data is given in Annexure - III.

PART - D

Pollution Generated

(Parameters as specified in the consent issued)

<u>PART - D</u>		
Solid Waste		
	Total Quantity (kg)	
	During the current financial year 2017-18	During the current financial year 2018-19
a) From process	Nil	Nil
b) From Pollution control Facilities	Nil	Nil

Note: 1. No solid waste will be generated from the process

2. The intermediate products, raw material and finished product collected in various pollution control systems are being recycled

<p align="center"><u>PART – E</u></p> <p align="center">Hazardous Wastes</p> <p>[As specified under Hazardous Wastes (Management and Handling) rules, 1998]</p>		
	Total Quantity (kg)	
	During the Previous financial year 2017-2018	During the current financial year 2018-2019
a) From process	Nil	Nil
b) From Pollution control facilities	<p>About 2.5 KL/ Annum of lube oil, 3.0Ton/Annum grease is generated from the plant. This has been consumed in the kiln as supporting fuel for kiln lightening and grease is used for the conveyors wheels and drive chains for smooth movement.</p> <p>The lube oil & Grease is stored in the closed barrels located in the protected area as per the Hazardous waste handling and Management rules 1989.</p>	<p>About 2.5 KL/Annum of lube oil, 3.0 Ton/Annum grease is generated from the plant. This has been consumed in the kiln as supporting fuel for kiln lightening and grease is used for the conveyors wheels and drive chains for smooth movement.</p> <p>The lube oil & Grease is stored in the closed barrels located in the protected area as per the Hazardous waste handling and Management rules 1989.</p>

Note: Month wise Electricity generation/ Fuel consumption by DG Set is given in ANNEXURE-IV.

FORM – F

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

About 2.5 KL/Annum of lube oil, 3.0 T/Annum grease is generated from the plant. This has been consumed in the kiln as supporting fuel for kiln lightening and grease is used for the conveyors wheels and drive chains for smooth movement. Used lead Acid Batteries 16 No's for the year of 2018-19.

Used lead Acid Batteries are returned every year to seller's, Then it will be replaced.

The lube oil & Grease is stored in the closed barrels located in the protected area as per the Hazardous waste handling and Management rules 1989. Proper storage facility has been identified in the plant.

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 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.

- ♦ An amount of **Rs:- 1,73,200/-** is spent on Regular monthly monitoring.
- ♦ Total investment on the green belt development for the year 2018-2019 is **Rs:- 18,42,850/-**
- ♦ Total Investment spent on pollution control equipment's bags replacement for the year 2018-2019 is **Rs:- 36,53,369/- ANNEXURE-VI**
- ♦ The details of sapling for greenbelt development is given in **ANNEXURE-V**

PART – I

Any other particulars for improving the quality of the Environment.

- ♦ 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 compile the conditions of APPCB.

ANNEXURES



ANNEXURE -I

RAW MATERIALS CONSUMPTION
CLINKER/CEMENT PRODUCTION FOR 2018-2019 (in MTs)

Month	Lime stone	Bauxite	Iron Ore	Flyash Tonnes	GGBS	Gypsum	Coal	Clinker (MT)		Cement Grinding(MT)			Cement Dispatch (MT)		
	Tonnes	Tonnes	Tonnes			Prod	Consumption	OPC	PPC	Total	OPC	PPC	Total		
Apr-18	82461	4543	1616	7768	0	2121	6019	60460	56954	43365	23478	66843	43377.42	23542.145	66919.57
May-18	100951	5584	1498	8492	0	2807	7902	76729	55715	41348	25666	67014	41831.3	26122.455	67953.75
Jun-18	87227	5101	1449	11681	0	3071	5995	63223	66162	46742	34172	80914	44759.06	33539.65	78298.71
Jul-18	89204	6033	1381	10409	1556	3248	6570	66931	65351	50718	29846	80564	51880.11	29918.155	81798.26
Aug-18	94841	5649	1662	12888	1858	3600	6882	69614	76745	57401	37690	95091	57520.15	37337.155	94857.3
Sep-18	137507	7093	2160	13331	2162	3274	9662	101817	88507	68701	38573	107274	68843.93	38396.65	107240.6
Oct-18	147784	8480	1932	14705	2478	4076	10274	107684	100002	79188	42073	121261	78669.53	40739.655	119409.2
Nov-18	117802	6432	1502	12894	2472	3678	8261	83459	94857	77000	36901	113901	77551	37050.75	114601.8
Dec-18	108813	5949	1416	18042	2900	3497	7930	79744	91214	63333	52320	115653	61463.69	54598.455	116062.1
Jan-19	141920	8035	1950	12874	3454	3533	9906	103040	92371	75410	36822	112232	75981.64	35578.555	111560.2
Feb-19	95787	6139	1027	13314	2708	2891	6826	68193	77929	58771	38071	96842	59991.85	38384.64	98376.49
Mar-19	151710	10053	1739	14748	3559	3747	11073	111261	97209	77084	42179	119263	76327.22	40954.155	117281.4
Total	1356007	79091	19332	151146	23147	39543	97300	992155	963016	739061	437791	1176852	738196.9	436162.42	1174359

ANNEXURE –II

UNIT – I STACK MONITORING RESULTS [*Particulate Matter*] (Monthly Average values mg/Nm³)

UNIT	APR- '18	MAY- '18	JUN- '18	JUL- '18	AUG- '18	SEP- '18	OCT- '18	NOV- '18	DEC- '18	JAN- '19	FEB- '19	MAR- '19	AVG.
Kiln, ESP	-	-	-	4.2	-	-	8	-	-	4	-	-	5.4
Cement Mill-I ESP	-	-	-	12	-	-	16	-	-	15	-	-	14.3
Coal Mill, BF	-	-	-	24.2	-	-	12	-	-	6	-	-	14.0
Clinker Cooler, ESP	8	-	-	8.5	-	-	7	-	-	6	-	-	7.3
VRM, Bag House	10	-	-	10	-	-	20	-	-	19	-	-	14.7

UNIT – I STACK MONITORING RESULTS [*Gases*] (Monthly Average values mg/Nm³)

UNIT	APR- '18	MAY- '18	JUN- '18	JUL- '18	AUG- '18	SEP- '18	OCT- '18	NOV- '18	DEC- '18	JAN- '19	FEB- '19	MAR- '19	AVG.
Kiln, SO ₂	-	-	-	0.6	-	-	0.5	-	-	0.7	-	-	0.6
Kiln, NO _x	-	-	-	168	-	-	153	-	-	176	-	-	165.6

UNIT – II STACK MONITORING RESULTS [*Particulate Matter*] (Monthly Average values mg/Nm³)

UNIT	APR- '18	MAY- '18	JUN- '18	JUL- '18	AUG- '18	SEP- '18	OCT- '18	NOV- '18	DEC- '18	JAN- '19	FEB- '19	MAR- '19	AVG.
Kiln, Bag House	24	-	-	-	-	-	20.6	-	-	13	-	-	19.2
Cement Mill-II ESP	26	-	-	-	-	-	22	-	-	22	-	-	23.3
Coal Mill, BF	15	-	-	-	-	-	15	-	-	13	-	-	14.3
Clinker Cooler, ESP	22	-	-	14	-	-	29	-	-	25	-	-	22.5

UNIT – II STACK MONITORING RESULTS [*Gases*] (Monthly Average values mg/Nm³)

UNIT	APR- '18	MAY- '18	JUN- '18	JUL- '18	AUG- '18	SEP- '18	OCT- '18	NOV- '18	DEC- '18	JAN- '19	FEB- '19	MAR- '19	AVG.
Kiln, SO ₂	5	-	-	-	-	-	3	-	-	5	-	-	4.33
Kiln, NO _x	240	-	-	-	-	-	238	-	-	246	-	-	241.3

ANNEXURE -III

SUMMARY OF MONTHLY AMBIENT AIR QUALITY MONITORING DATA

(Average monthly values $\mu\text{g}/\text{m}^3$)

Month	Near Security Gate				Colony Guest House				Near Crusher				Near Packer			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Apr-'18	65	30	9.7	10.9	47	21	10.5	11.7	69	32	10.2	11.4	66	30	11.6	12.8
May-'18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun-'18	62	29	9.5	10.7	54	24	10.2	11.4	-	-	-	-	63	30	11.4	13.2
Jul-'18	63	27	9.7	10.9	45	20	9.2	10.4	-	-	-	-	64	29	10.5	12.2
Aug-'18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep-'18	65	27	9.8	11.5	58	23	10.5	11.7	-	-	-	-	67	29	11.8	13.3
Oct-'18	62	26	9.5	10.7	47	22	9.7	10.9	-	-	-	-	65	28	10.3	12.4
Nov-'18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dec-'18	67	31	10.1	11.7	55	25	9.7	10.9	-	-	-	-	69	33	11.5	13.2
Jan-'19	72	33	9.7	10.9	51	23	9.3	10.5	-	-	-	-	67	31	10.6	12.7
Feb-'19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar-'19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	65.1	29.0	9.7	11.0	51.0	22.6	9.9	11.1	69.0	32.0	10.2	11.4	65.9	30.0	11.1	12.8
CPCB Limits	100	60	80	80	100	60	80	80	100	60	80	80	100	60	80	80

Month	Near Cement Mill				Talaricheruvu Village				Urichintala Village				Tollamadugu Village			
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	PM ₁₀	PM _{2.5}	SO ₂	NO ₂
Apr-'18	64	29	12.1	13.3	38	16	12.4	13.6	42	18	9.7	10.9	40	17	10.3	11.6
May-'18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Jun-'18	-	-	-	-	46	22	9.9	12.2	48	23	10.1	11.5	-	-	-	-
Jul-'18	-	-	-	-	30	17	9.4	10.6	30	17	9.4	10.6	-	-	-	-
Aug-'18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Sep-'18	-	-	-	-	44	19	9.6	12.1	46	21	10.2	11.9	-	-	-	-
Oct-'18	-	-	-	-	28	14	9.8	11.2	36	18	9.4	11.6	-	-	-	-
Nov-'18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dec-'18	-	-	-	-	43	20	9.8	12.4	45	21	10.3	11.5	-	-	-	-
Jan-'19	-	-	-	-	36	18	9.5	11	41	20	9.8	11.6	-	-	-	-
Feb-'19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mar-'19	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average	64.0	29.0	12.1	13.3	37.9	18.0	10.1	11.9	41.1	19.7	9.8	11.4	40.0	17.0	10.3	11.6
CPCB Limits	100	60	80	80	100	60	80	80	100	60	80	80	100	60	80	80

ANNEXURE -IV**MONTHWISE CONSUMPTION OF ELECTRICAL ENERGY FROM AP
TRANSCO/GENERATION OF ELECTRICAL ENERGY FROM D.G.SET/ DIESEL
CONSUMPTION**

Month & Year	Electrical Energy From AP Transco (kwhr)	Electrical Energy From D.G.set (kwhr)	Diesel Consumption Liters	Units / Liter Diesel
Apr-18	6182700	750	290	2.59
May-18	6022800	3900	1535	2.54
Jun-18	7161200	0	0	-
Jul-18	6644200	150	55	2.73
Aug-18	6175700	0	0	-
Sep-18	9671600	0	0	-
Oct-18	9821800	0	0	-
Nov-18	9296900	0	0	-
Dec-18	7779600	0	0	-
Jan-19	9254000	150	50	3.00
Feb-19	8935700	3450	1359	2.54
Mar-19	9248800	0	0	-
Total	96195000	8400	3289	2.55

PLANTATION DETAILS FOR 2018-2019

YEAR-WISE AND VARIETY PLANTATION DETAILS AT PENNA CEMENT INDUSTRIES LTD., TALARICHERUVU FOR THE YEAR 2018-19														
Sno	Name of the plant	Apr-18	May-18	Jun-18	Jul-18	Aug-18	Sep-18	Oct-18	Nov-18	Dec-18	Jan-19	Feb-19	Mar-19	Total
1	Neem	-	-	-	-	-	-	-	-	-	-	-	-	0
2	Dolanux	-	-	-	-	-	-	-	-	-	-	-	-	30
3	Usirika	-	-	-	-	-	-	-	-	-	-	-	-	0
4	Feltoform	-	-	-	-	-	-	-	-	-	-	-	-	0
5	Kanuga	-	-	-	650	135	200	200	50	50	-	-	-	1855
6	Seemarupa	-	-	-	-	-	-	-	-	-	-	-	-	0
7	Juvvi	-	-	-	-	-	-	-	-	-	-	-	-	0
8	Tapasi	-	-	-	-	-	-	60	-	-	-	-	-	60
9	Narepi	-	-	-	-	-	-	-	-	-	-	-	-	0
10	Dubai	-	-	-	70	105	20	-	-	-	35	84	-	314
11	Silverrok	-	-	-	-	-	-	-	-	-	-	-	-	0
12	Neeruddi	-	-	-	-	-	-	-	-	-	-	-	-	0
13	Budda	-	-	-	-	-	-	-	-	-	-	-	-	0
14	Kondavepa	-	-	-	-	-	-	-	-	-	-	-	-	0
15	Tamarind	-	-	-	-	-	-	-	-	-	-	-	-	0
16	Jama	-	-	-	-	-	-	-	-	-	-	-	-	0
17	Custered Apple	-	-	-	-	-	100	-	-	-	-	-	-	100
18	Neredu	-	-	-	-	-	-	-	-	-	-	-	-	0
19	Mango	-	-	-	-	-	-	-	-	-	-	-	-	0
20	Yerra sunkesala	-	-	-	-	-	-	-	-	-	-	-	-	0
21	Peboobiya	-	-	-	-	-	-	-	-	-	-	-	-	0
22	Tella Maddi	-	-	-	-	-	-	-	-	-	-	-	-	0
23	Rose wood	-	-	-	-	-	50	84	-	-	-	-	-	134
24	Teak	-	-	-	-	-	100	-	-	-	-	-	-	100
25	Coconut	-	-	-	-	-	-	61	-	-	-	-	-	61
26	Sreegandamu	-	-	-	-	-	-	-	-	-	-	-	-	0
27	Mulbary vepa	-	-	-	610	650	-	100	-	-	-	-	-	1360
28	7 leaf	-	-	-	-	-	-	-	-	-	-	-	-	0
29	Cordia	-	-	-	-	-	-	22	-	-	-	-	-	22
	Total	0	0	600	1330	890	470	527	50	50	35	84	0	4036

ANNEXURE –VI**POLLUTION CONTROL DEVICES**

S.NO	LOCATION	POLLUTION CONTROL EQUIPMENT	POLLUTION CONTROL EQUIPMENT
		UNIT – I	UNIT –II
1	Limestone Crusher	Bag filter	Bag filter
2	Raw mill silo top – Blending silo	Bag filter	Bag filter
3	Raw Mill – 3	----	Bag filter
3	Kiln feed weight feeder	Bag filter	Bag filter
4	Kiln and Raw mill	Bag House	Bag House
5	Grate Cooler Exhaust	ESP	ESP
6	Clinker Stock Pile	Bag filter	Bag filter
7	Clinker Conveyor – Transfer point	Bag filter	Bag filter
8	Cement Mills	Bag House	ESP
9	VRM	----	Bag House
10	Cement Silo	Bag filter	Bag filter
11	Packing Plant	Bag filter	Bag filter
12	Coal Mill	Bag filter	Bag filter
13	Coal Mill De-dusting	Bag filter	Bag filter