

JKCW/MGR/ESR/RESIDENTIALCOLONY/FY-23-24

Date: 27/09/2024

To
The Member Secretary
Rajasthan State Pollution Control Board
4. Industrial Area Jhalana Doongri
Jaipur-302004 (Raj)

Sub: Submission of Environmental Statement Report in Form-V for Financial Year 2023-2024 by M/s JK Cement Works, Mangrol, **Sushila Nagar Residential Colony/Township**, in Mangrol Village, Tehsil Nimbahera, Chittorgarh and Rajasthan-312601.

Ref.:

F(CPM)/Chittorgarh(Nimbahera)/4006(1)/2022-2023/1248-1250

Order No : 2023-2024/CPM/8724. Dated 31st May 2023

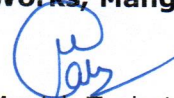
Dear Sir,

With reference to the above cited subject, we M/s. J.K. Cement Works, Mangrol, **Sushila Nagar Residential Colony/Township** hereby submitting the Environmental Statement Report in Form-V for Financial Year 2023-2024 as per, Rule No 14 of The Environment (Protection) Rules, 1986, CTO order.

This is for your information please.

Thanking You

Yours Faithfully
For J.K. Cement Works, Mangrol



Manish Toshniwal
Unit Head (Operations).

Enol: Form-V Environment Statement report.

Copy: The Regional Officer, Rajasthan State Pollution Control Board, Near FCI Godown, Chanderiya, Dist - Chittorgarh (Raj)-312021.



ENVIRONMENTAL STATEMENT

FORM - V

Environmental Statement for the financial year 2023-24, ending the 31st March 2024

PART-A

Name an address of the owner/occupier of the industry operation or process	Manish Toshniwal Unit Head (Operations) J.K. Cement Works, Mangrol Residential colony(Township) along with Sewage Treatment Plant situated Sushila Nagar Colony, Mangrol Village, Tehsil: Nimbahera, Chittorgarh (Rajasthan) Pin Code 312617
Industry category Primary - (STC Code) Secondary - (STC Code)	Primary
Production capacity/Area	Total Area : 22.47 Hectares. Built Up area : 19967.80 Sq.Mtr. Sewage Treatment Plant : 200 KLD
Year of establishment- (UNIT WISE)	Year 2015
Date of last environmental statement submitted	23-09-2023

PART-B

WATER AND RAW MATERIAL CONSUMPTION

WATER CONSUMPTION in m³/day

Process	:	NIL
Cooling	:	NIL
Domestic	:	240 m ³ /day

Name of products	Water consumption (For Domestic & Drinking)	
	During the previous financial year (2022-23) (KL/ANNUM)	During the current financial year (2023-24) (KL/ANNUM)
For Domestic & Drinking	57342	55,351

RAW MATERIAL CONSUMPTION

Not applicable

PART-C

POLLUTION DISCHARGE TO ENVIRONMENT / UNIT OF OUTPUT

Pollutants	Quantity of pollutants discharged (Ton/Day)	Concentration of pollutants in discharge (mg/Nm3)	Percentage of variation from prescribed standards with reasons
Water	Domestic waste water generated from the colony and canteen is being treated in STP and treated water used in plantation & horticulture purposes within the premises.		
Air	Not applicable		

Month & Year	NEAR TIME OFFICE				NEAR THERMAL POWER PLANT			
	PM10	PM2.5	SO2	NOX	PM10	PM2.5	SO2	NOX
April-2023	72.5	34.4	10.6	32.3	76.2	23.7	9.8	14.2
May-2023	74.8	35.3	11.6	19.9	73.4	24.9	12.9	25.5
June-2023	71.6	25.1	11.2	24.2	72.5	21.6	13.5	24.6
July-2023	71.3	31.9	10.6	16.5	72.1	35	15.8	22.6
August-2023	75.3	32.8	10.2	22.7	72.9	27.4	12.4	20.1
September-2023	70.3	30.5	11.5	23.5	73.5	26.1	11.5	20.1
October-2023	68.9	22.4	11.7	25.1	71.7	21.6	13.3	24.2
November-2023	59.5	33.7	10.6	25.1	71.5	21.6	13.2	23.5
December-2023	52.5	36.4	11.2	22.6	74.1	26.4	16.1	25.2
January-2024	58.7	32	9.8	21	72.3	24.2	11.8	22.5
February-2024	63.4	36	10.4	22	73.5	25.3	12.5	23.8
March-2024	68.2	38	11.6	25	74	26.8	15	24.5
AVERAGE	67.25	32.38	10.92	23.33	73.14	25.38	13.15	22.57

% of Deviation from Standard	-32.75	-46.04	-86.35	-70.84	-26.86	-57.69	-83.56	-71.79
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Month & Year	NERA FACTORY GATE LINE-1				NEAR COLONY GUEST HOUSE			
	PM10	PM2.5	SO2	NOX	PM10	PM2.5	SO2	NOX
April-2023	75.6	26	8.8	19.1	68.1	27.9	11.3	20.4
May-2023	69.9	28.7	14.4	20.6	66.5	26.6	7.7	22.2
June-2023	78.1	29.6	11.3	23.8	64.3	23.3	8.4	16.7
July-2023	72.2	28.7	11.3	23.8	65.3	28.2	8.2	16.5
August-2023	70.4	29.1	14.8	23.9	68.5	24.7	9.5	17.5
September-2023	75.2	29.8	13.8	23.6	64.8	26.2	9.3	18.4
October-2023	75.9	27.1	11.4	24.8	59.6	19.8	8.6	16.6
November-2023	68.6	29.1	12.1	27	53.4	24	8.7	16.6
December-2023	71.2	23.2	14.5	21.7	51.2	22.5	9.6	14.1
January-2024	72.5	25.2	10.5	20.8	55.2	25.8	7.4	12.5
February-2024	73.2	26.5	13.5	21.6	57.4	26.4	8.9	14.8
March-2024	74	28.5	12.9	19.5	59.6	24.5	9.5	11.4
AVERAGE	73.07	27.63	12.44	22.52	61.158	24.992	8.925	16.475
% of Deviation from Standard	-26.93	-53.96	-84.45	-71.85	-38.84	-58.34	-88.84	-79.40

Month & Year	NEAR TIME OFFICE		NEAR THERMAL POWER PLANT		NERA FACTORY GATE LINE-1		NEAR COLONY GUEST HOUSE	
	DAY in dB	NIGHT in dB	DAY in dB	NIGHT in dB	DAY in dB	NIGHT in dB	DAY in dB	NIGHT in dB
April-2023	65	52	61	54	54.3	46.2	54.30	45.60
May-2023	60.25	50.3	63.2	52.3	59.95	50.5	55.60	50.90
June-2023	64	52	65	51	56.2	46.5	56.80	45.80

IMPACT OF THE POLLUTION ABATEMENT MEASURES TAKEN ON CONSERVATION OF NATURAL RESOURCES AND ON THE COST OF PRODUCTION.

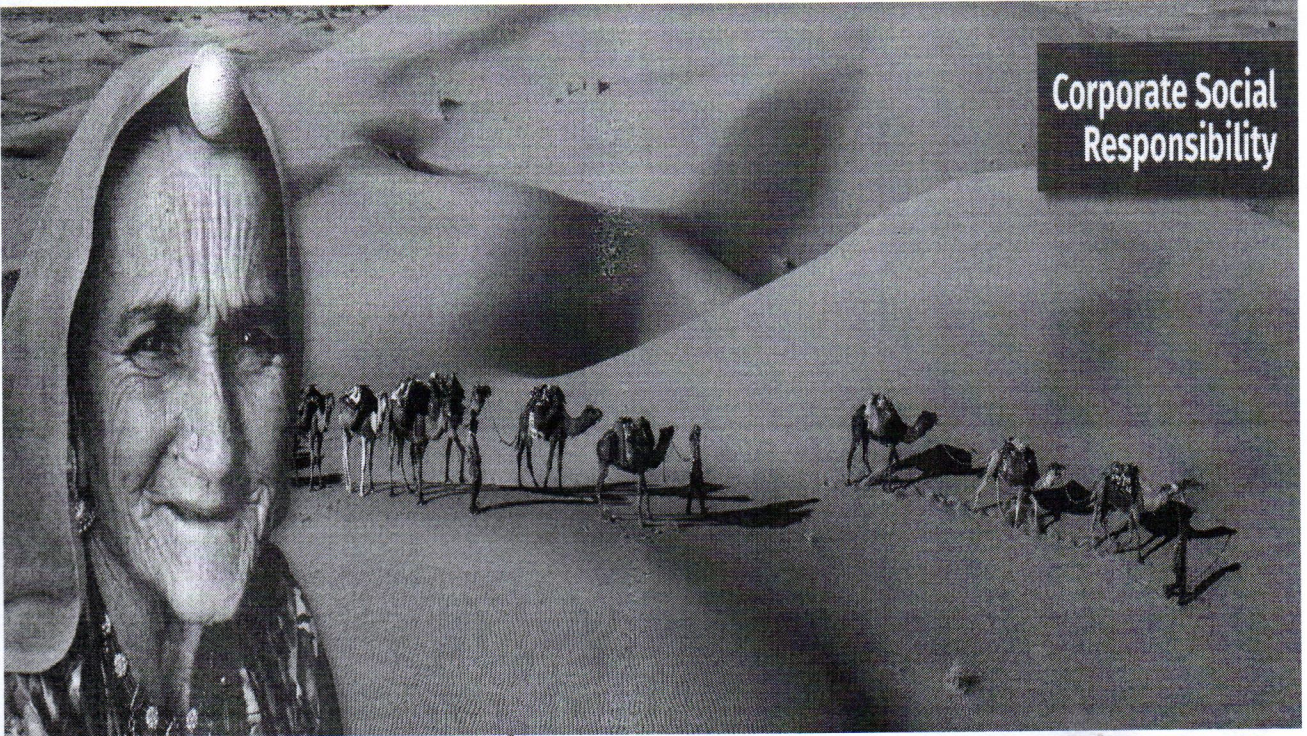
Water is mainly used by residents of the colony and in plants for drinking & domestic purposes. Waste water generated as domestic Sewage and treated in STP installed at Sushila Nagar. The Sewage Treatment Plant Installed Capacity is 200 M³ per day. Treated water is being utilized for horticulture purposes within the premises.


PART-H

ADDITIONAL MEASURES / INVESTMENT PROPOSALS FOR ENVIRONMENTAL PROTECTION INCLUDING ABATEMENT POLLUTION, PREVENTION OF POLLUTION.

Continuous Ambient Air Quality Monitoring Systems (CAAQMS) has been installed in the colony.

Corporate Social
Responsibility

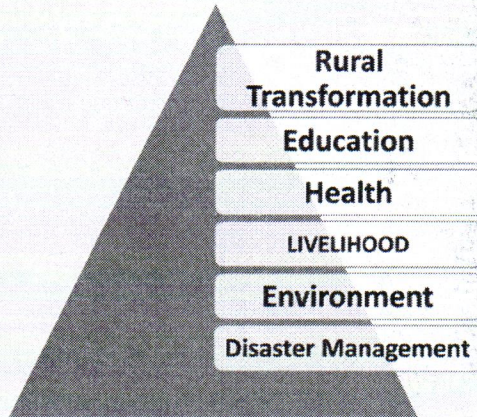


 JKcement





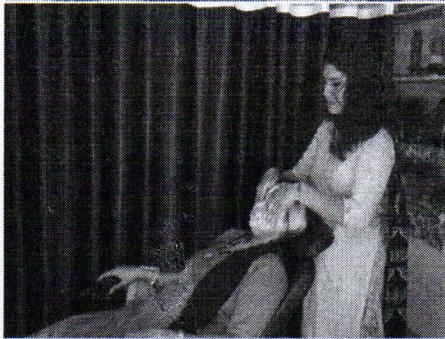
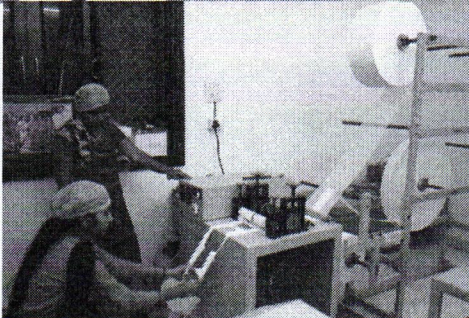
Rational



JK Cement CSR Works Impacting 45,000 People of ten Gram-Panchayat and 28 Villages situated around Plants & Mines Area.



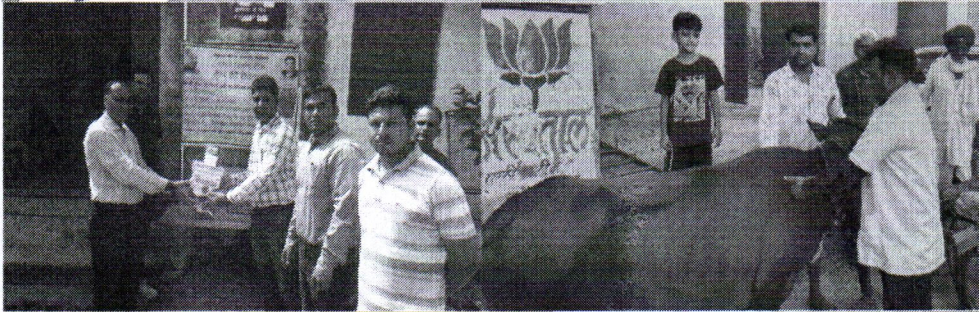
Livelihood



- ✓ Sanitary Pad Production Unit @ Mangrol under "Sparsh" Program.
- ✓ Reach out to 20,000 women's through providing low sanitary pads.
- ✓ Beauty Parlour & Stitching Training Program @ Mangrol, Karunda & Bansa.
- ✓ Around 891 women trained under Surabhi Beauty Parlour Stitching & Training Program.



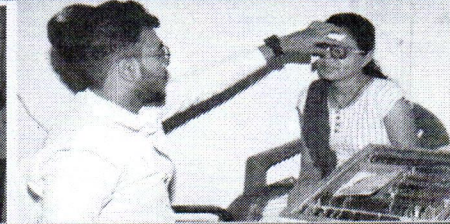
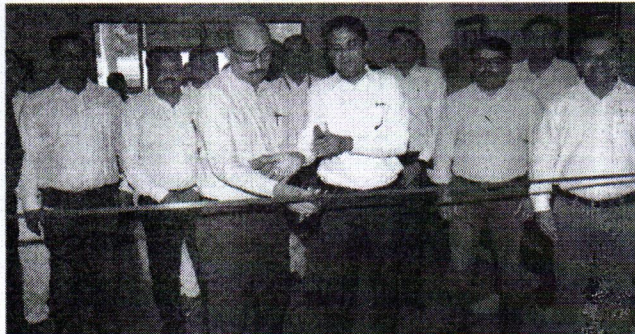
Livelihood



- ✓ Total 33004 AI done in 2022-23, PD-1443 and Calf born-9088.
- ✓ Vaccination drive for prevention from Lumpy disease in surrounding 40 nos. of villages in Nimbahera. Total animals vaccinated around 12000 nos.
- ✓ Lowest mortality in state.
- ✓ Organised 48 medical camp in 2022-23 and benefitted around 1300 families.



Health



Inauguration of Eye Checkup & Screening Camp in Collaboration with Gomabai Eye Hospital at RTC



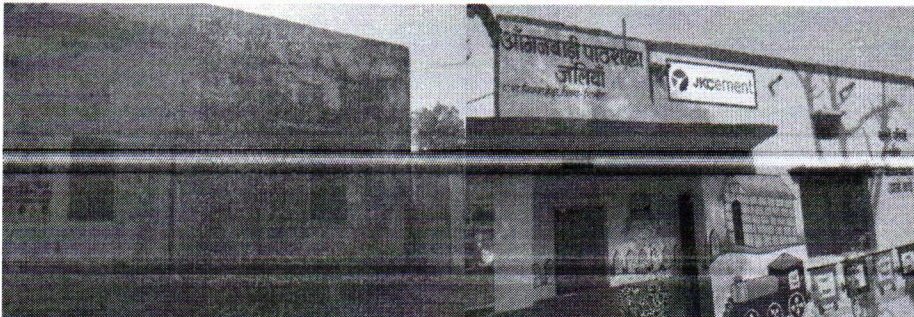
Health



Inauguration of Mobile Medical Unit (MMU) at Fachar Ahran Village to facilitate near by communities. Around forty four adolescent girl's hemoglobin and iron checked by our team.

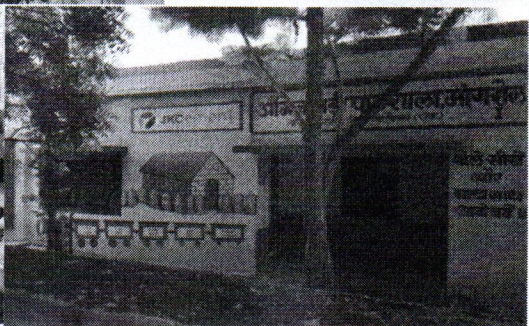


Health



Anganwari Infrastructure Development Program

Eighteen Anganwadi's renovated and developed in surrounding villages. And benefitting around 25000 population in 15 villages through this interventions.





Health



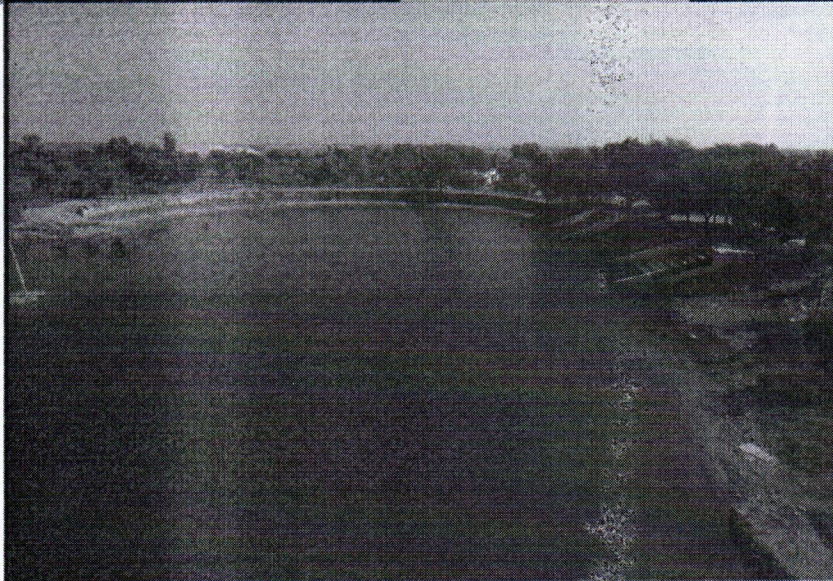
The village named Payeri, located in the Karunda Panchayat, comprises a total of 250 households. One of the major challenges faced by the community was the inadequate availability of water for drinking and domestic purposes.

To address this issue, a solution was implemented wherein all households were connected with water pipelines, and water was supplied through bore wells. The impact of this initiative has been significant, as people now have access to water at their doorstep. This has led to a reduction in the cost of water, saved time and effort, and improved the overall health and well-being of the community, particularly for women who are often burdened with the drudgery of fetching water

Drinking water distribution in Payeri village.



Environment



A initiative to make available water for agriculture through Water channel from Karunda Mines to village

Social Return of Investment

Brief-A 1.2km pipeline laid from Karunda Mines to Karunda village pond.

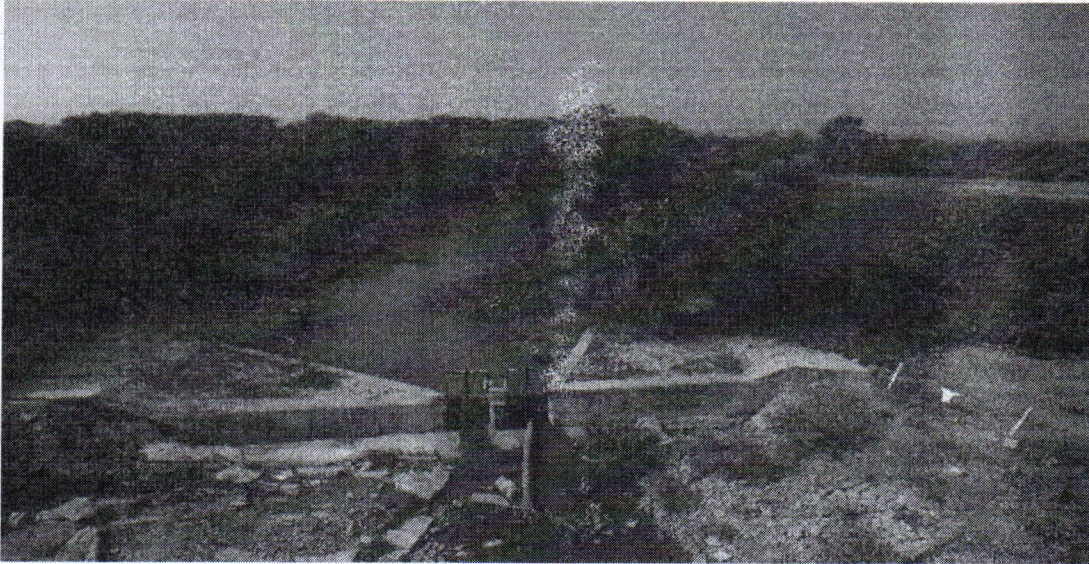
Purpose-Agriculture and Cattle drinking

Beneficiaries-Around 150 families are directly benefiting.

Impact- Around 1500 people are directly or indirectly benefitting through this intervention, 7-8 wells and bore wells are getting recharged. Now in surrounding wells and bore well 12 water is available .



Environment



constructed an Anicut at Maliyakhaera village



Environment



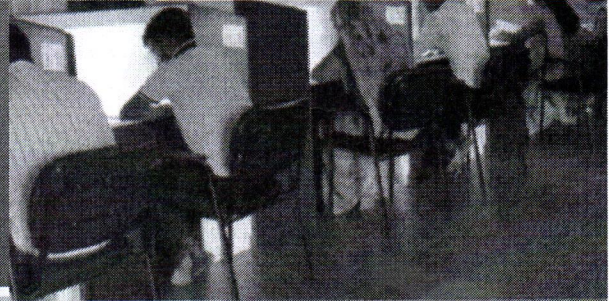
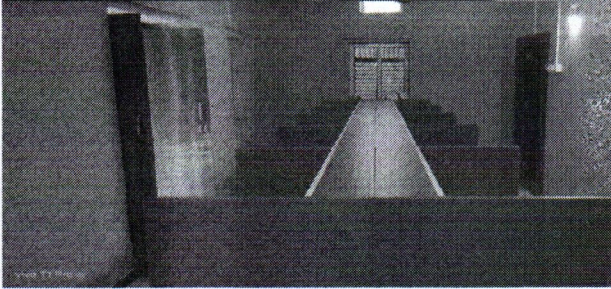
Plantation at Malyakhedi village



Education



Gyankendra- A initiative to provide environment and infrastructure to the youth who are preparing for government complete exams in village.



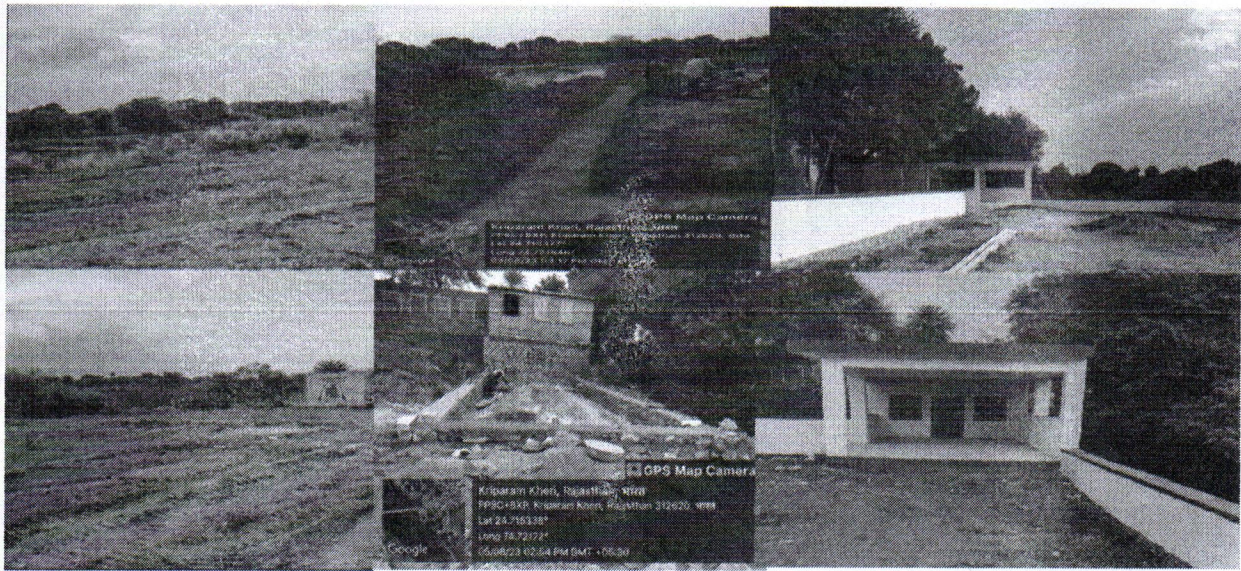
Rural Transformation



Constructed CC Road at Kripa ram Ji ki Dhandhi Arniya Joshi village.

CSR Spend Details			
Proposed Budget in Lakh (2023-24)	Spent (2023-24)	Location GP/NP/NP	Activities details
600	807	NBH & MGRL	Health-4054674 Education-2783539 Livelihood-2873932 Rural Transformation-69071597 Environment-722559 Others-1235177

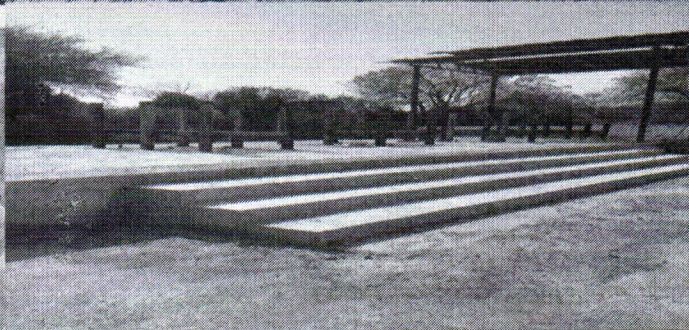
Kripa Ram Ji Ki Khedi Village Community Hall



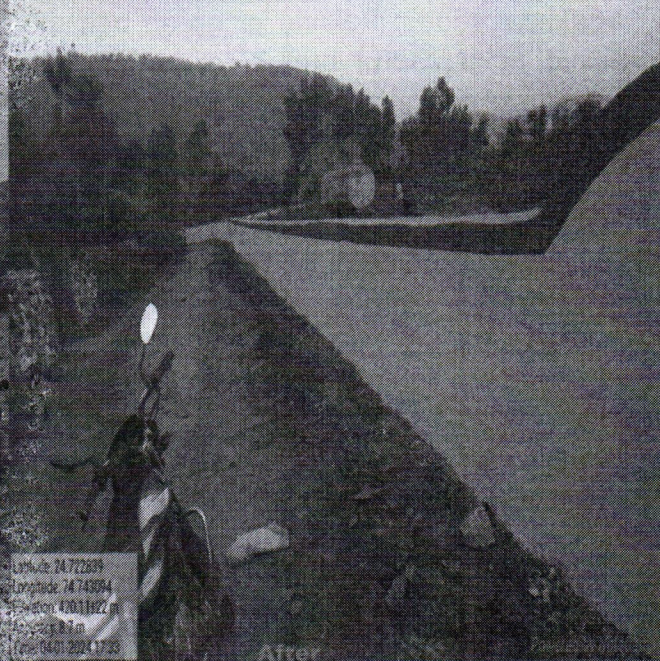
Before Construction Photo

After Construction Photo

Payri samshan boundary wall and misc work



Pemdiya kheda samshan boundary wall



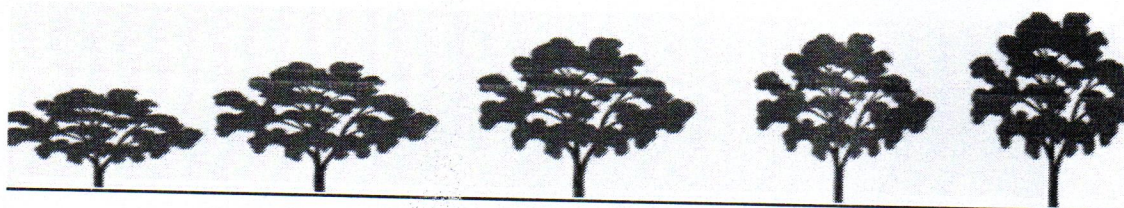
Before

Latitude: 24.722899
Longitude: 74.743094
Elevation: 426.11422 m
Area: 8.7 m
Code: 040120241735

PART-I

ANY OTHER PARTICULARS FOR IMPROVING THE QUALITY OF ENVIRONMENT

1. Monitoring of water quality is being done regularly as mentioned in consent to operate.
2. Domestic waste water generated is being treated in sewage treatment plants (STP). Treated water is utilized for plantation/horticulture development, hence maintaining the Zero Liquid Discharge unit.
3. Proper Housekeeping and cleaning is being done with the help of four road sweeping machines.
4. 16 Rain water harvesting structures have been constructed in plant and colony areas to recharge ground water.
5. Cemented road constructed to avoid fugitive dust generation during the movement of vehicles.
6. Telemetry system installed for online ground water level monitoring.
7. Green cover is not only pleasing to the eyes but also beneficial in many ways such as conservation of biodiversity, retention of soil moisture, recharge of ground water and moderation of micro climate. It has been derived that trees can act as carbon sinks & efficient biological filters, removing significant amounts of particulate pollution and has tremendous potential for improved air quality. The dust capturing phenomenon of plant species is a cost effective technology for reduction of particulate load in urban agglomerations. Raising of green belt at the project site with right types of species can serve as a useful buffer to contain the menace of pollution from different sources. Whatever space is available around the periphery of the plant will be planned to be utilized for green belt and the open spaces within the factory will be converted to green areas in the form of lawns or flowering plants. A wide range of plant species have been planted in and around the premises to help capture the fugitive emissions and noise levels attenuate the noise generated and improve the aesthetics. This wide range covers plants of fast growing type with thick canopy cover, perennial green nature, native origin and a large leaf area index.



Financial Year	FY 2019-2020	FY 2020-2021	FY 2021-2022	FY 2022-2023	FY 2023-2024
No of Saplings	11100	11369	13255	10928	1770
