

**Jakraya Sugar Ltd.**  
**Watwate, Tal.: Mohol, Dist.: Solapur, State: Maharashtra.**

**AMBIENT AIR QUALITY MONITORING REPORT**

No	Parameter	Near Front Gate				Backside of the factory				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	25.11.19	17.12.19	12.01.20	09.02.20	
01	PM10	58.86	60.24	62.67	56.34	55.23	56.83	58.24	54.85	µg/m <sup>3</sup>
02	PM2.5	16.41	17.82	19.02	15.80	15.64	17.41	18.14	14.20	µg/m <sup>3</sup>
03	SO2	19.74	21.05	26.37	17.94	17.05	19.12	24.21	16.11	µg/m <sup>3</sup>
04	NOx	24.03	25.70	30.25	22.12	22.91	24.25	28.42	20.64	µg/m <sup>3</sup>
05	CO	0.08	0.12	0.15	0.05	0.05	0.10	0.12	0.03	mg/m <sup>3</sup>

No	Parameter	Near Weigh Bridge				Near Administration Office				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	25.11.19	17.12.19	12.01.20	09.02.20	
01	PM10	62.36	65.36	64.12	61.24	54.66	56.11	59.05	53.66	µg/m <sup>3</sup>
02	PM2.5	18.03	20.15	21.05	16.89	14.89	15.76	19.72	14.35	µg/m <sup>3</sup>
03	SO2	21.84	23.82	28.03	19.95	16.67	18.53	25.61	14.78	µg/m <sup>3</sup>
04	NOx	27.59	29.56	32.34	24.35	23.18	24.02	29.44	22.09	µg/m <sup>3</sup>
05	CO	0.13	0.18	0.27	0.11	0.03	0.09	0.13	0.02	mg/m <sup>3</sup>

## WORKZONE AIR QUALITY MONITORING REPORT

No	Parameter	Near Front Gate				Backside of the factory				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	25.11.19	17.12.19	12.01.20	09.02.20	
01	PM10	65.84	67.15	65.23	63.05	68.23	70.36	68.15	64.15	µg/m <sup>3</sup>
02	PM2.5	21.59	22.78	18.40	20.12	20.94	21.92	20.59	21.24	µg/m <sup>3</sup>
03	SO2	20.22	19.21	20.15	17.28	18.74	18.59	20.24	18.92	µg/m <sup>3</sup>
04	NOx	23.45	21.69	23.28	20.47	20.29	20.04	22.10	21.05	µg/m <sup>3</sup>
05	CO	0.12	0.14	0.21	0.11	0.09	0.10	0.24	0.19	mg/m <sup>3</sup>

No	Parameter	Near Weigh Bridge				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	PM10	59.36	62.86	69.09	57.25	µg/m <sup>3</sup>
02	PM2.5	17.82	18.04	22.17	19.04	µg/m <sup>3</sup>
03	SO2	16.61	17.41	19.03	16.85	µg/m <sup>3</sup>
04	NOx	18.39	19.25	21.21	18.70	µg/m <sup>3</sup>
05	CO	0.07	0.12	0.18	0.09	mg/m <sup>3</sup>

### AMBIENT NOISE MONITORING REPORT

No	Locations	READINGS				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	Near Main Gate	65.4	66.8	68.3	64.2	Leq dB(A)
02	Backside of Factory	60.1	61.2	63.4	58.0	
03	Near Weigh Bridge	67.5	68.4	70.1	65.1	
04	Near Administration Office	60.4	61.3	60.8	57.1	
05	Near Parking	61.3	62.4	62.3	57.8	
06	Near ETP	60.5	61.7	61.8	56.2	
07	Near Green Belt	56.2	55.4	57.3	54.2	
08	Near Compost	58.5	57.9	59.0	56.8	
09	Near Truck Parking	68.1	70.2	71.3	68.4	
10	Near Canteen	55.1	54.3	56.2	53.1	

### WORKZONE NOISE MONITORING REPORT

No	Locations	READINGS				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	Store Section	55.4	56.2	58.2	54.3	Leq dB(A)
02	Sugar House	56.3	57.1	59.2	56.3	
03	Boiler House	78.3	75.4	79.3	76.2	
04	Centrifuge Section	79.2	77.5	82.3	84.3	
05	PAN Section	76.2	74.5	78.1	76.3	
06	Sulphur Godown	58.2	59.3	61.1	57.5	
07	Laboratory	51.1	54.3	52.3	52.5	
08	Sulphur Dosing Section	66.5	68.1	66.9	67.4	
09	Crushing Section	78.8	76.3	77.9	75.9	
10	Bagass Yard	69.2	68.4	66.4	65.1	

## STACK MONITORING REPORT

No	Parameter	READINGS				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	SPM	69.87	72.24	78.36	66.23	mg/m <sup>3</sup>
02	SO <sub>2</sub>	37.12	42.58	47.01	36.02	mg/m <sup>3</sup>

## GROUND WATER ANALYSIS REPORT

No	Parameter	A				B				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	25.11.19	17.12.19	12.01.20	09.02.20	
01	pH	7.54	7.48	7.84	7.45	7.67	7.78	7.66	7.59	---
02	TDS	225.05	258.42	268.09	260.54	239.26	274.12	209.18	210.11	mg/L
03	Hardness	91.80	122.38	112.71	124.64	100.57	129.83	83.60	75.93	mg/L
04	Chlorides	24.76	41.01	42.26	39.27	32.14	45.34	19.03	17.15	mg/L
05	Calcium	28.15	34.70	33.12	35.42	30.26	36.92	26.55	24.78	mg/L
06	Magnesium	5.20	8.65	7.46	8.76	6.11	9.11	4.18	3.39	mg/L
07	Sulphates	12.04	18.20	19.78	21.52	15.56	20.95	10.41	9.44	mg/L
08	Iron	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	mg/L

## EFFLUENT WATER ANALYSIS REPORT

SR. NO.	PARAMETER	25.11.2019		17.12.2019		12.01.2020		09.02.2020		UNITS
		Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	Inlet	Outlet	
01	pH	5.90	7.58	5.60	7.63	5.40	7.89	5.95	7.57	---
02	TSS	122.72	62.55	138.78	66.01	156.20	68.02	119.15	59.32	mg/L
03	TDS	2502.84	1262.02	2782.13	1378.19	2904.26	1594.55	2321.77	1792.10	mg/L
04	COD	382.07	192.65	415.75	202.75	489.41	211.09	375.63	184.29	mg/L
05	BOD	136.29	69.84	152.54	72.11	182.55	75.43	129.76	64.30	mg/L
06	Chlorides	303.62	172.13	328.45	186.23	370.62	201.32	295.14	151.69	mg/L
07	Sulphates	289.23	141.38	301.62	168.37	333.84	181.95	240.20	120.80	mg/L
08	Oil & Grease	3.78	BDL	3.84	BDL	4.11	BDL	3.02	BDL	mg/L

### RAW SPENT WASH ANALYSIS REPORT

No	PARAMETER	READINGS				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	pH	4.15	4.25	4.35	4.02	---
02	TSS	10512.27	10785.01	11024.89	10324.84	mg/L
03	TDS	108254.01	112763.84	113215.27	104821.06	mg/L
04	COD	89570.39	95829.26	102756.75	82841.11	mg/L
05	BOD	35245.72	38205.19	41720.84	30529.28	mg/L
06	Chlorides	5845.94	6037.04	6324.06	5584.13	mg/L
07	Sulphates	2105.28	2395.76	2384.90	2012.08	mg/L
08	Sodium	415.08	425.00	478.21	384.30	mg/L

### COMPOST ANALYSIS REPORT

No	PARAMETER	READINGS				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	pH	7.25	7.54	7.81	7.14	---
02	Ca	4.37	4.76	4.91	4.29	%
03	Na	0.51	0.48	0.65	0.46	%
04	Organic Carbon	15.98	15.32	15.34	14.20	%
05	Chlorides	0.01	0.01	0.02	0.01	%
06	Sulphates	0.12	0.16	0.21	0.10	%
07	Total Nitrogen	1.27	1.41	1.38	1.40	%
08	Total Phosphorus	1.61	1.65	1.70	1.58	%
09	Total Potassium	1.42	1.47	1.52	1.36	%

## SOIL ANALYSIS REPORT

No	Parameter	A				B				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	25.11.19	17.12.19	12.01.20	09.02.20	
01	pH	7.77	7.63	8.14	7.77	7.59	7.15	7.25	7.86	---
02	EC	2.05	1.92	1.75	2.05	2.23	2.66	1.61	2.84	mg/L
03	Water Holding Capacity	62.26	64.32	57.21	62.26	58.03	58.25	57.84	60.28	mg/L
04	N	538.17	478.12	425.15	538.17	326.78	576.02	460.32	560.32	mg/L
05	P	129.37	92.33	67.38	129.37	80.20	66.29	102.26	130.67	mg/L
06	K	159.54	169.05	184.65	159.54	162.32	174.09	191.03	192.03	mg/L

No	Parameter	Near Weigh Bridge				UNITS
		25.11.19	17.12.19	12.01.20	09.02.20	
01	pH	7.33	8.06	7.56	7.63	---
02	EC	1.98	1.84	1.94	2.96	S/m
03	Water Holding Capacity	59.34	56.01	60.72	57.17	%
04	N	575.01	602.13	510.15	575.20	mg/kg
05	P	76.13	58.20	115.62	145.34	mg/kg
06	K	198.23	159.05	165.13	184.13	mg/kg