

INDIAN RAYON
A UNIT OF ADITYA BIRLA NUVO LIMITED,
VERAVAL.
STACK MONITORING REPORT

Month : MAY - 2015

Sr.no.	Stack Location.	Type of pollutant.	Unit	Analysis Result	
				Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	5/5/2015 0.45	25/5/2015 0.50
		Acid Mist	mg/Nm ³	14.4	12.3
2	Sulphuric Acid Plant. (SCSA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	5/5/2015 0.90	25/5/2015 0.58
		Acid Mist	mg/Nm ³	36.8	8.4
3	Boiler no. 4 (Coal fired)	SPM	mg/Nm ³	12/5/2015 87.1	28/5/2015 64.8
		SOX	PPM	85.0	86.0
		NOX	PPM	4.4	3.2
4	Old Power Plant (Boiler No. 1 & 2)	SPM	mg/Nm ³	27/5/2015 64.6	
		SOX	PPM	84.0	
		NOX	PPM	3.2	
5	New Power Plant (Boiler No. 3)	SPM	mg/Nm ³	27/5/2015 75.2	
		SOX	PPM	86.0	
		NOX	PPM	4.4	
6	Coal Crushing Unit	SPM	mg/Nm ³	12/5/2015 80.2	
7	Rayon Process Stack. (a) Old	CS ₂ Emission	Kg/ton of fiber.	5/5/2015 194.9	21/5/2015 183.4
		H ₂ S Emission	mg/Nm ³	22.2	37.4
	(b) New	CS ₂ Emission	Kg/ton of fiber.	5/5/2015 191.9	21/5/2015 180.8
		H ₂ S Emission	mg/Nm ³	27.8	30.6
8	Hypochlorite Stack.	Cl ₂	mg/Nm ³	19/5/2015 0.192	31/5/2015 0.188
9	HCL Plant Stack	HCL Vapour & Mist	mg/Nm ³	19/5/2015 3.60	31/5/2015 3.80
		Chlorine	mg/Nm ³	0.310	0.330

ND = Not detectable.

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Month : June - 2015

Sr.no.	Stack Location.	Type of pollutant.	Unit	Analysis Result	
				Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	10/6/2015 0.78	27/6/2015 0.71
		Acid Mist	mg/Nm ³	18.4	20.0
2	Sulphuric Acid Plant. (SCSA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	10/6/2015 0.92	27/6/2015 0.77
		Acid Mist	mg/Nm ³	24.5	12.3
3	Boiler no. 4 (Coal fired)	SPM	mg/Nm ³	13/6/2015 34.5	26/6/2015 74.4
		SOX	PPM	73.0	85.0
		NOX	PPM	2.8	1.9
4	Old Power Plant (Boiler No. 1 & 2)	SPM	mg/Nm ³	29/6/2015 48.4	
		SOX	PPM	88.0	
		NOX	PPM	2.1	
5	New Power Plant (Boiler No. 3)	SPM	mg/Nm ³	29/6/2015 56.5	
		SOX	PPM	92.0	
		NOX	PPM	2.2	
6	Coal Crushing Unit	SPM	mg/Nm ³	24/6/2015 72.5	
7	Rayon Process Stack. (a) Old	CS ₂ Emission	Kg/ton of fiber.	12/6/2015 203.9	30/6/2015 203.9
		H ₂ S Emission	mg/Nm ³	26.4	22.2
	(b) New	CS ₂ Emission	Kg/ton of fiber.	12/6/2015 210.2	30/6/2015 201.1
		H ₂ S Emission	mg/Nm ³	22.2	16.7
8	Hypochlorite Stack.	Cl ₂	mg/Nm ³	18/6/2015 0.178	25/6/2015 0.175
9	HCL Plant Stack	HCL Vapour & Mist	mg/Nm ³	18/6/2015 3.20	25/6/2015 3.60
		Chlorine	mg/Nm ³	0.300	0.320

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Month : July - 2015

Sr.no.	Stack Location.	Type of pollutant.	Unit	Analysis Result	
				Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	13/7/2015 0.47	31/7/2015 0.90
		Acid Mist	mg/Nm ³	12.2	20.0
2	Sulphuric Acid Plant. (SCSA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	13/7/2015 0.43	31/7/2015 0.64
		Acid Mist	mg/Nm ³	12.2	24.5
3	Boiler no. 4 (Coal fired)	SPM	mg/Nm ³	11/7/2015 102.5	27/7/2015 95.8
		SOX	PPM	64.0	84.0
		NOX	PPM	2.7	3.0
4	Old Power Plant (Boiler No. 1 & 2)	SPM	mg/Nm ³	30/7/2015 74.8	
		SOX	PPM	85.0	
		NOX	PPM	3.2	
5	New Power Plant (Boiler No. 3)	SPM	mg/Nm ³	30/7/2015 85.3	
		SOX	PPM	82.0	
		NOX	PPM	2.8	
6	Coal Crushing Unit	SPM	mg/Nm ³	22/7/2015 82.8	
7	Rayon Process Stack. (a) Old	CS ₂ Emission	Kg/ton of fiber.	7/7/2015 191.9	31/7/2015 209.8
		H ₂ S Emission	mg/Nm ³	30.6	22.2
	(b) New	CS ₂ Emission	Kg/ton of fiber.	7/7/2015 167.7	31/7/2015 201.1
		H ₂ S Emission	mg/Nm ³	34.7	25.0
8	Hypochlorite Stack.	Cl ₂	mg/Nm ³	2/7/2015 0.150	17/7/2015 0.165
9	HCL Plant Stack	HCL Vapour & Mist	mg/Nm ³	2/7/2015 3.65	17/7/2015 5.50
		Chlorine	mg/Nm ³	0.300	0.345

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Month : August - 2015

Sr.no.	Stack Location.	Type of pollutant.	Unit	Analysis Result	
				Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	8/8/2015 0.41	25/8/2015 0.78
		Acid Mist	mg/Nm ³	18.4	18.4
2	Sulphuric Acid Plant. (SCSA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	8/8/2015 0.38	25/8/2015 0.77
		Acid Mist	mg/Nm ³	36.8	14.4
3	Boiler no. 4 (Coal fired)	SPM	mg/Nm ³	12/8/2015 65.4	28/8/2015 60.6
		SOX	PPM	82.0	89.0
		NOX	PPM	5.5	1.9
4	Old Power Plant (Boiler No. 1 & 2)	SPM	mg/Nm ³	31/8/2015 70.3	
		SOX	PPM	82.0	
		NOX	PPM	2.9	
5	New Power Plant (Boiler No. 3)	SPM	mg/Nm ³	20/8/2015 95.4	
		SOX	PPM	58.0	
		NOX	PPM	3.4	
6	Coal Crushing Unit	SPM	mg/Nm ³	18/8/2015 90.3	
7	Rayon Process Stack. (a) Old	CS ₂ Emission	Kg/ton of fiber.	7/8/2015 200.5	31/8/2015 183.4
		H ₂ S Emission	mg/Nm ³	16.7	26.4
	(b) New	CS ₂ Emission	Kg/ton of fiber.	7/8/2015 198.0	31/8/2015 207.2
		H ₂ S Emission	mg/Nm ³	22.2	30.6
8	Hypochlorite Stack.	Cl ₂	mg/Nm ³	14/8/2015 0.185	26/8/2015 0.190
9	HCL Plant Stack	HCL Vapour & Mist	mg/Nm ³	14/8/2015 5.5	26/8/2015 7.3
		Chlorine	mg/Nm ³	0.300	0.355

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Month : September - 2015

Sr.no.	Stack Location.	Type of pollutant.	Unit	Analysis Result	
				Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	10/9/2015 0.35	25/9/2015 0.54
		Acid Mist	mg/Nm ³	24.5	12.3
2	Sulphuric Acid Plant. (SCSA)	SO ₂	Kg/MT of 100 % H ₂ SO ₄	10/9/2015 0.22	25/9/2015 0.64
		Acid Mist	mg/Nm ³	36.8	20.0
3	Boiler no. 4 (Coal fired)	SPM	mg/Nm ³	10/9/2015 90.6	23/9/2015 112.0
		SOX	PPM	75.0	84.0
		NOX	PPM	2.5	1.8
4	Old Power Plant (Boiler No. 1 & 2)	SPM	mg/Nm ³	28/9/2015 80.9	
		SOX	PPM	86.0	
		NOX	PPM	2.0	
5	New Power Plant (Boiler No. 3)	SPM	mg/Nm ³	28/9/2015 56.4	
		SOX	PPM	80.0	
		NOX	PPM	2.5	
6	Coal Crushing Unit	SPM	mg/Nm ³	22/9/2015 86.5	
7	Rayon Process Stack. (a) Old	CS ₂ Emission	Kg/ton of fiber.	9/9/2015 206.9	22/9/2015 183.4
		H ₂ S Emission	mg/Nm ³	16.7	30.6
	(b) New	CS ₂ Emission	Kg/ton of fiber.	9/9/2015 191.9	22/9/2015 198.0
		H ₂ S Emission	mg/Nm ³	26.4	26.4
8	Hypochlorite Stack.	Cl ₂	mg/Nm ³	4/9/2015 0.188	26/9/2015 0.186
9	HCL Plant Stack	HCL Vapour & Mist	mg/Nm ³	4/9/2015 3.65	26/9/2015 7.30
		Chlorine	mg/Nm ³	0.96	0.90

ND = Not detectable.

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Month : October - 2015

Sr.no.	Stack Location.	Type of pollutant.	Unit	Analysis Result	
				Sampling Date	Sampling Date
1	Sulphuric Acid Plant. (DCDA)	SO2	Kg/MT of 100 % H2SO4	14/10/2015 0.45	30/10/2015 0.75
		Acid Mist	mg/Nm ³	12.3	8.4
2	Sulphuric Acid Plant. (SCSA)	SO2	Kg/MT of 100 % H2SO4	14/10/2015 0.35	30/10/2015 0.64
		Acid Mist	mg/Nm ³	18.4	36.8
3	Boiler no. 4 (Coal fired)	SPM	mg/Nm ³	14/10/2015 86.6	29/10/2015 108.1
		SOX	PPM	90.0	93.0
		NOX	PPM	2.2	4.2
4	Old Power Plant (Boiler No. 1 & 2)	SPM	mg/Nm ³	30/10/2015 54.4	
		SOX	PPM	84.0	
		NOX	PPM	2.1	
5	New Power Plant (Boiler No. 3)	SPM	mg/Nm ³	30/10/2015 44.1	
		SOX	PPM	78.0	
		NOX	PPM	1.9	
6	Coal Crushing Unit	SPM	mg/Nm ³	20/10/2015 75.2	
7	Rayon Process Stack. (a) Old	CS2 Emission	Kg/ton of fiber.	9/10/2015 209.8	28/10/2015 203.9
		H2S Emission	mg/Nm ³	26.4	22.2
	(b) New	CS2 Emission	Kg/ton of fiber.	9/10/2015 205.0	28/10/2015 205.0
		H2S Emission	mg/Nm ³	34.7	27.8
8	Hypochlorite Stack.	Cl2	mg/Nm ³	13/10/2015 0.180	30/10/2015 0.182
9	HCL Plant Stack	HCL Vapour & Mist	mg/Nm ³	13/10/2015 3.65	30/10/2015 7.30
		Chlorine	mg/Nm ³	0.35	0.30

ND = Not detectable.