

Muniguda (D/s of M/s Vedanta  
Alumina Project)

Month	Temp., 0C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., μS/cm	Nitrate- N, mg/l	NH4-N, mg/l
Jan	28	8.4	7.6	1	4.7	71	0.563	0.56
Apr	32	8.4	7.8	0.7	7.9	216	0.503	0.696
July	28	7.6	7.4	1.2	6.4	218	0.42	0.2
Oct	27	8	7.2	0.8	5.9	206	0.29	2.4
<b>Min</b>	<b>27</b>	<b>7.6</b>	<b>7.2</b>	<b>0.7</b>	<b>4.7</b>	<b>71</b>	<b>0.29</b>	<b>0.2</b>
<b>Max</b>	<b>32</b>	<b>8.4</b>	<b>7.8</b>	<b>1.2</b>	<b>7.9</b>	<b>218</b>	<b>0.563</b>	<b>2.4</b>
<b>Average</b>	<b>28.75</b>	<b>8.1</b>	<b>7.5</b>	<b>0.9</b>	<b>6.225</b>	<b>177.75</b>	<b>0.444</b>	<b>0.964</b>

Gunupur (Interstate Boundry)

Month	Temp., 0C	pH	DO, mg/l	BOD, mg/l	COD, mg/l	Cond., μS/cm	Nitrate- N, mg/l	NH4-N, mg/l
Jan	28	8.3	6.8	1.1	4.7	258	0.587	0.448
Apr	30	8.4	6.4	0.9	9.5	278	0.335	0.464
July	30	7.8	7.2	0.8	5.6	98	0.41	0.2
Oct	25	7.6	6.9	1.2	7.9	228	0.52	2.7
<b>Min</b>	<b>25</b>	<b>7.6</b>	<b>6.4</b>	<b>0.8</b>	<b>4.7</b>	<b>98</b>	<b>0.335</b>	<b>0.2</b>
<b>Max</b>	<b>30</b>	<b>8.4</b>	<b>7.2</b>	<b>1.2</b>	<b>9.5</b>	<b>278</b>	<b>0.587</b>	<b>2.7</b>
<b>Average</b>	<b>28.25</b>	<b>8.025</b>	<b>6.825</b>	<b>1.0</b>	<b>6.925</b>	<b>215.5</b>	<b>0.463</b>	<b>0.953</b>

TC, MPN/ 100 ml	FC, MPN/ 100 ml	SI	DI	Class	Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l	Hardnes s CaCO <sub>3</sub> , mg/l
580	230	6.25	0.5	B	ND	124	12	96
940	460	7	0.5	B	0.004	120	ND	80
1700	460	0.5	78	0	68	52	16	21
2100	1400	6.6	0.6	B	0.05	104	0	100
580	230	0.5	0.5	0	0.004	52	0	21
2100	1400	7	78	0	68	124	16	100
1330	637.5	5.0875	19.9	0	22.6847	100	9.33333	74.25

TC, MPN/ 100 ml	FC, MPN/ 100 ml	SI	DI	Class	Nitrite-N, mg/l	T. Alk., mg/l	P. Alk., mg/l	Hardnes s CaCO <sub>3</sub> , mg/l
1200	490	6	0.52	B	ND	88	ND	68
1100	790	6.3	0.56	B	0.006	100	ND	100
1200	230	0.5	68	0	64	48	16	14
1700	1100	6.5	0.51	B	0.05	112	0	96
1100	230	0.5	0.51	0	0.006	48	0	14
1700	1100	6.5	68	0	64	112	16	100
1300	652.5	4.825	17.3975	0	21.352	87	8	69.5

Ca as CaCO <sub>3</sub> , mg/l	Mg as CaCO <sub>3</sub> , mg/l	Chloride, mg/l	Sulphate, mg/l	PO <sub>4</sub> <sup>3-</sup> -P, mg/l	Flouride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l	TDS, mg/l
40	56	10	4.2	0.033	0.609	3.92	29	56
48	32	14	12.08	ND	0.2	1.68	34	114
14.8	0.034	0.198	1.86	312	129	102	92	14.6
52	48	11	2.7	0.086	0.158	3.36	29	122
14.8	0.034	0.198	1.86	0.033	0.158	1.68	29	14.6
52	56	14	12.08	312	129	102	92	122
38.7	34.0085	8.7995	5.21	104.04	32.4918	27.74	46	76.65

Ca as CaCO <sub>3</sub> , mg/l	Mg as CaCO <sub>3</sub> , mg/l	Chloride, mg/l	Sulphate, mg/l	PO <sub>4</sub> <sup>3-</sup> -P, mg/l	Flouride, mg/l	Total Kjeldahl N, mg/l	TSS, mg/l	TDS, mg/l
36	32	20	2.1	0.019	0.45	1.68	22	182
60	40	16	12.68	ND	0.194	3.92	50	148
8.4	0.026	0.142	2.24	242	56	39	79	8.2
48	52	13	1.6	0.106	0.118	3.36	69	135
8.4	0.026	0.142	1.6	0.019	0.118	1.68	22	8.2
60	52	20	12.68	242	56	39	79	182
38.1	31.0065	12.2855	4.655	80.7083	14.1905	11.99	55	118.3

TFS, mg/l	Turbidity, NTU	Na, mg/l	K, mg/l	B, mg/l	Cadmium, mg/l	Copper, mg/l	Lead, mg/l	Chromium Total, mg/l
44	7.8	7.7	2	0.024	0.6	7	11	101
102	4.6	8.6	4.3	0.185	1	8	10	92
1.8	0.028	0.4	2	4	46	4	8	0.0005
94	30	7.4	2.1	0.01	1.5	3	11.7	0.01
<b>1.8</b>	<b>0.028</b>	<b>0.4</b>	<b>2</b>	<b>0.01</b>	<b>0.6</b>	<b>3</b>	<b>8</b>	<b>0.0005</b>
<b>102</b>	<b>30</b>	<b>8.6</b>	<b>4.3</b>	<b>4</b>	<b>46</b>	<b>8</b>	<b>11.7</b>	<b>101</b>
<b>60.45</b>	<b>10.607</b>	<b>6.025</b>	<b>2.6</b>	<b>1.05475</b>	<b>12.275</b>	<b>5.5</b>	<b>10.175</b>	<b>48.2526</b>

TFS, mg/l	Turbidity, NTU	Na, mg/l	K, mg/l	B, mg/l	Cadmium, mg/l	Copper, mg/l	Lead, mg/l	Chromium Total, mg/l
167	4.9	15.2	3.3	0.144	0.6	9	9	92
126	15.2	9.8	4.4	0.137	1	8	8	96
1.1	0.016	0.4	2	6	52	2	8	0.0005
120	17	9.4	2.6	0.027	1.4	2.8	10.9	0.01
<b>1.1</b>	<b>0.016</b>	<b>0.4</b>	<b>2</b>	<b>0.027</b>	<b>0.6</b>	<b>2</b>	<b>8</b>	<b>0.0005</b>
<b>167</b>	<b>17</b>	<b>15.2</b>	<b>4.4</b>	<b>6</b>	<b>52</b>	<b>9</b>	<b>10.9</b>	<b>96</b>
<b>103.525</b>	<b>9.279</b>	<b>8.7</b>	<b>3.075</b>	<b>1.577</b>	<b>13.75</b>	<b>5.45</b>	<b>8.975</b>	<b>47.0026</b>

Nickel, mg/l	Zinc, mg/l	Mercury, mg/l	Iron Total, mg/l
3	11	BDL	194
3	10	BDL	222
192			
1	4.6	0.32	42.3
<b>1</b>	<b>4.6</b>	<b>0.32</b>	<b>42.3</b>
<b>192</b>	<b>11</b>	<b>0.32</b>	<b>222</b>
<b>49.75</b>	<b>8.53333</b>	<b>0.32</b>	<b>152.767</b>

Nickel, mg/l	Zinc, mg/l	Mercury, mg/l	Iron Total, mg/l
4	10	BDL	251
3	10	BDL	282
184			
0.3	1.1	0.0005	53.8
<b>0.3</b>	<b>1.1</b>	<b>0.0005</b>	<b>53.8</b>
<b>184</b>	<b>10</b>	<b>0.0005</b>	<b>282</b>
<b>47.825</b>	<b>7.03333</b>	<b>0.0005</b>	<b>195.6</b>