

# GUJARAT STATE ELECTRICITY CORPORATION LIMITED

Wanakbori Thermal Power Station, Taluka:Galteshwar, Dist:Kheda- 388239. Ph. 91-2699-235522  
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AN ISO-9001:2015, ISO-14001:2015, OHSAS 18001:2007 Certified Power Plant  
CIN: U40100GJ1993SGC019988

By RPAD

No.: WTPS/EEEC/Env/1445 Q/unit 7EC/Gu85

Date: 07 OCT 2021

To,  
The Joint Director,  
Ministry of Environment, Forest & Climate change,  
Regional Office, Western Region,  
Link Road no. 3, E-5, Ravishankar Nagar,  
Bhopal - 462 016. (MP)


Sub: Submission of compliance report of Environment clearance issued for WTPS unit no 7.  
Ref: Environmental clearance issued by MOEF, vide letter no. J-13011/13/93/IA/II dated 19/04/94.

Dear Sir,

In context to above subject, enclosed herewith please find half yearly compliance report of environment clearance issued by MOEF for unit no. 7 of WTPS , along with statistics of data regarding effluent quality, stack emission and ambient air quality for the period from April - 2021 to September 2021 in annexure - I to IV.

Thanking You,

Yours Faithfully,

  
2-10-21  
(C.R. Chaudhari)  
Chief Engineer (C&O)  
GECL: WTPS

Encl: As Above  
Copy to;  
C.E. (Gen. /P&P), GSECL, CO, Vadodara. By mail.

Sub: Compliance report for conditions of environmental clearance issued by Ministry of Environment & Forest, New Delhi on 19/4/1994, for GSECL-WTPS unit no 7.

No.	Condition framed in Environment Clearance	Compliance of the conditions
2	Condition & safeguards for implementation	
I	Stack height should be provided as per MOEF's notification dated 19/5/93.	Stack height of unit no 7 is 220 meter, which is as per the MOEF's requirement.
II	ESP/ alternate dust collecting equipment with operational efficiency of not less than 99.8% should be provided so that the PM emission should not exceed 150 mg/Nm <sup>3</sup> failing which plant should be shut down. Adequate redundancies should be provided so that partial failures do not result in exceeding the limit mentioned above. Arrangement for interlocking of ESP/alternate equipment would be desirable.	ESP provided with operational efficiency 99.76%. BAPCON & RAPCON system are provided for automatic control of ESP rectifier parameters for optimum working of ESP. The average emission of PM from unit 7 almost remains within prescribed limit of 100 mg/Nm <sup>3</sup> . Opacity meter is provided to monitor the particulate matter emission level. Online analyzer for measurement of SO <sub>2</sub> & NO <sub>x</sub> parameters in flue gas emission is also provided in unit no 7. Real time results are being transmitted to CPCB server.
III	Space provision for installation of desulphurization plant should be made so that the same could be provided, if required in future from environment angle.	Adequate space provision is kept nearby ESP area, for installation of desulphurization plant if required in future at unit no. 7.
IV	Liquid effluents including cooling water emanating from the plant, ash pond & other area should be properly treated to conform to the standard stipulated by SPCB or MOEF whichever is more stringent.	Pumps are provided & wastewater from effluent sump outlet & composite outlet is partly reutilized, as per requirement in ash plant & for gardening use. Zero liquid discharge scheme (ZLD) is implemented for ash dyke effluent. Annexure-I attached herewith.
V	The project authority should prepare a comprehensive EIA report including air quality data of all season & submit within a year.	Revalidation of EIA report was submitted in the year 1999.
VI	The cooling towers were to be replaced by modern one so that the water requirement does not increase.	Natural draft cooling tower of 112 meter height is provided for optimum water requirement.
VII	In order to arrest the heavy concentration of liquid effluent, to be properly treated as per stipulated standard.	Liquid effluent is being properly treated to achieve stipulated standard, before discharging in river. Flow meter & online analyzer for pH, TSS & Temperature parameters are provided.
VIII	Time frame for carrying out the mitigation measure mentioned in the sec-9 of the rapid EIA to be submitted within one month.	Time frame mitigation measures were complied as suggested in the comprehensive EIA report for unit no. 7. WTPS having ISO-14001 certification (Environment management system) issued by M/s. KBS. 14 nos. of percolating wells are constructed for rain water harvesting scheme at WTPS area. PVC cabins with fixed glass window are provided in high noise areas in plant. Dry fog dust control system (DFDCS) is provided in coal handling plant.
IX	The project authority should furnish a workable plan for full utilization of fly ash for the approval of the appraisal committee/MOEF Provision of flyash collection should be made by the dry system.	100% fly ash utilization achieved in unit 7. Flyash from ESP, economizer & APH is being collected in silo of unit 7 & given to cement manufacturing companies. The action plan for utilization of fly ash was submitted to MOEF in past.
X	A green belt of not less than 50 meters width & adequate density should be raised all around the plant & right from the construction stage. Plantation around the ash pond area should also be provided.	11318 nos. of sapling is planted in open plot near entrance of ash dyke area. Nakti vell sapling is planted wherever possible in all ash dyke area to control fugitive ash pollution.

XI	The requirement of land for ash disposal should be based on ash utilization plan. Recycling & reuse of ash pond effluent should be done so as to achieve zero discharge to the maximum extent possible.	Zero liquid discharge scheme is provided for ash dyke discharge.
XII	Continuous dust monitoring system should be provided in each stack/duct & calibrated at least once in a week. Monitoring of stack emission of SO <sub>2</sub> /NO <sub>x</sub> should be done at least once in a month.	Opacity meters & SO <sub>2</sub> / NO <sub>x</sub> analyzer for continuous measurement are installed in all units. Calibration is being done on auto mode & as per requirement. Monitoring of SO <sub>2</sub> /NO <sub>x</sub> carried out through outside agency & env. auditor. Realtime results are displayed on CPCB server. Annexure-II attached herewith.
XIII	Efforts should be made to minimize evaporation losses of water to the extent possible.	Closed cycle cooling water system is adopted for all units. Evaporation of water from cooling water depends up on weather atmosphere condition.
XIV	Adequate monitoring station for ambient air & water quality should be provided in consultation with the SPCB. Levels of pollutants (SPM, SO <sub>2</sub> ,NO <sub>x</sub> ) should be monitored on regular basis & record maintained. The parameters for water quality including ground water contamination in the vicinity area should be monitored & the records maintained.	WTPS has installed weather monitoring station. Necessary data like air temperature, relative humidity, wind speed, wind direction are recorded & maintained. Data of underground borewell water, up stream water, down stream water, effluent discharge, stack monitoring, and ambient air quality monitoring with meteorological data is submitted to CPCB/GPCB. Annexure-III&IV attached herewith.
XV	A separate environment cell with suitable qualified people to carry out various functions should be set up under the control of senior executive who will report directly to the head of the organization.	WTPS has constituted separate EEEEC (Environment Energy Efficiency Cell) section headed by Superintending Engineer (Ope.).
3	The condition stipulated may be varied or new conditions may be added or the clearance evoked , if necessary, in the interest of environment protection and if there is any change in the project profile, non satisfactory implementation of the stipulated condition etc.	WTPS has also installed unit no. 8 of 800 MW capacity & Compliance of Environment clearance is regularly submitted to MoEF & CC.
4	The stipulations will be implemented, among others under the Water act, the Air act, the Environment Protection act, and the PLI act.	Noted.
5	Necessary funds should be provided in the project for implementation of the above mentioned conditions and environment safeguards. The funds earmarked for the environmental protection measures should not be diverted for other purposed and yearwise expenditure should be reported to this Ministry.	The necessary fund is allotted & expensed towards activities & works pertain to environmental safe guards. The year wise expenditure report for environment measures is submitted for the year 20-21 to MOEF.

**ANNEXURE - I**  
**AVERAGE EFFLUENT QUALITY AND COMPARISON WITH THE STANDARDS**  
**DURING APRIL - 2021 TO SEPTEMBER - 2021**

Sr. No.	Stream Identity	Parameters	Units	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Average from Apr 21 to Sept 21	Standards (Specified Norms)	% Deviation from the Standard
1	Boiler Blowdown	Suspended Solids	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>100</b>	---
		Oil & Grease	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>10</b>	---
		Total Copper (as Cu)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>1</b>	---
		Total Iron (as Fe)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>1</b>	---
2	Cooling Water Blow down	Free available Chlorine	mg/l	BDL	BDL	BDL	BDL	BDL	0.19	<b>BDL</b>	<b>0.5</b>	---
		Zinc (as Zn)	mg/l	BDL	BDL	BDL	0.53	0.38	0.23	<b>0.38</b>	<b>1</b>	<b>-62.00</b>
		Hexavalent Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>0.1</b>	---
		Total Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>0.2</b>	---
		Phosphate (as P)	mg/l	2.20	4.80	2.10	5.80	4.20	4.20	<b>3.88</b>	<b>5</b>	<b>-22.40</b>
3	Combined Effluent											
3.1	Composite sample	pH	---	7.80	7.78	7.75	7.9	7.56	7.6	<b>7.73</b>	<b>6.5 -8.5</b>	---
		Oil & Grease	mg/l	0.90	1.00	1.00	0.5	BDL	BDL	<b>0.85</b>	<b>10</b>	<b>-91.50</b>
		Suspended Solids	mg/l	12	10	10	21	14	55.4	<b>20.40</b>	<b>100</b>	<b>-79.60</b>
		Hexavalent Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>0.1</b>	---
		Total Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>0.2</b>	---
		Total Copper (as Cu)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>1</b>	---
		Total Iron (as Fe)	mg/l	BDL	0.05	0.31	0.06	BDL	BDL	<b>0.14</b>	<b>1</b>	<b>-86.00</b>
		Zinc (as Zn)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>1</b>	---
		Phosphate (as P)	mg/l	0.46	0.36	0.64	1.70	BDL	BDL	<b>0.79</b>	<b>5</b>	<b>-84.20</b>
3.2	Effluent sump	pH	---	7.85	7.85	7.89	7.45	8.1	8.12	<b>7.88</b>	<b>6.5 -8.5</b>	

	outlet sample	Oil & Grease	mg/l	0.70	1.10	0.80	0.7	BDL	BDL	<b>0.83</b>	<b>10</b>	<b>-91.70</b>
		Suspended Solids	mg/l	92	18	96	54	18.6	55.4	<b>55.67</b>	<b>100</b>	<b>-44.33</b>
		Hexavalent Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>0.1</b>	<b>---</b>
		Total Chromium	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>0.2</b>	<b>---</b>
		Total Copper (as Cu)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>1</b>	<b>---</b>
		Total Iron (as Fe)	mg/l	BDL	0.07	0.21	0.2	BDL	BDL	<b>0.16</b>	<b>1</b>	<b>-84.00</b>
		Zinc (as Zn)	mg/l	BDL	BDL	BDL	BDL	BDL	BDL	<b>BDL</b>	<b>1</b>	<b>---</b>
		Phosphate (as P)	mg/l	0.58	0.41	0.57	1.00	4.20	4.10	<b>1.81</b>	<b>5</b>	<b>-63.80</b>
4	Ash dyke discharge	pH	---	ZLD	ZLD	ZLD	ZLD	ZLD	ZLD	<b>-</b>	<b>6.5-8.5</b>	<b>-</b>
		Oil & Grease	mg/l	ZLD	ZLD	ZLD	ZLD	ZLD	ZLD	<b>-</b>	<b>10</b>	<b>-</b>
		Suspended Solids	mg/l	ZLD	ZLD	ZLD	ZLD	ZLD	ZLD	<b>-</b>	<b>100</b>	<b>-</b>
5	Colony treated sewage	BOD	mg/l	12	11	9	18.6	14.8	19.8	<b>14.20</b>	<b>20</b>	<b>-29.00</b>
		Suspended Solids	mg/l	25	25	20	26	12.8	36.7	<b>24.25</b>	<b>30.0</b>	<b>-19.17</b>
		Residual Chlorine	mg/l	0.5	0.5	0.51	0.1	0.1	0.12	<b>0.31</b>	<b>0.5</b>	<b>-38.00</b>

Effluent quality monitored by M/s. Greenleaf Envirotech Pvt. Ltd., Surat. BDL: Below detectable limit, ZLD- zero liquid discharge

**ANNEXURE - II**  
**AVERAGE STACK EMISSION QUALITY AND COMPARISON WITH THE STANDARDS**  
**DURING APRIL - 2021 TO SEPTEMBER - 2021**

Unit no.	Parameters	Units	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Average from Apr 21 to Sept 21	Standards (Specified Norms)	% Deviation from the Standard.
Unit 1	Particulate matter	mg/Nm3	91	RSD	RSD	RSD	113	124	<b>109.33</b>	<b>100</b>	<b>9.33</b>
	Sulphur dioxide	mg/Nm3	1074	RSD	RSD	RSD	1141	932	<b>1049.00</b>	<b>600</b>	<b>74.83</b>
	Nitrogen oxides	mg/Nm3	364	RSD	RSD	RSD	401	567	<b>444.00</b>	<b>600</b>	<b>-26.00</b>
Unit 2	Particulate matter	mg/Nm3	94	RSD	RSD	RSD	91	128	<b>104.33</b>	<b>100</b>	<b>4.33</b>
	Sulphur dioxide	mg/Nm3	990	RSD	RSD	RSD	1180	1057	<b>1075.67</b>	<b>600</b>	<b>79.28</b>
	Nitrogen oxides	mg/Nm3	409	RSD	RSD	RSD	559	584	<b>517.33</b>	<b>600</b>	<b>-13.78</b>
Unit 3	Particulate matter	mg/Nm3	111	95	89	95	128	91	<b>101.50</b>	<b>100</b>	<b>1.50</b>
	Sulphur dioxide	mg/Nm3	1203	1410	1247	1410	1041	1107	<b>1236.33</b>	<b>600</b>	<b>106.06</b>
	Nitrogen oxides	mg/Nm3	594	583	516	583	389	501	<b>527.67</b>	<b>600</b>	<b>-12.06</b>
Unit 4	Particulate matter	mg/Nm3	80	RSD	RSD	RSD	98	RSD	<b>89.00</b>	<b>100</b>	<b>-11.00</b>
	Sulphur dioxide	mg/Nm3	1197	RSD	RSD	RSD	1036	RSD	<b>1116.50</b>	<b>600</b>	<b>86.08</b>
	Nitrogen oxides	mg/Nm3	482	RSD	RSD	RSD	398	RSD	<b>440.00</b>	<b>600</b>	<b>-26.67</b>
Unit 5	Particulate matter	mg/Nm3	66	RSD	72	RSD	96	89	<b>80.75</b>	<b>100</b>	<b>-19.25</b>
	Sulphur dioxide	mg/Nm3	1035	RSD	1103	RSD	1343	1204	<b>1171.25</b>	<b>600</b>	<b>95.21</b>
	Nitrogen oxides	mg/Nm3	466	RSD	495	RSD	369	543	<b>468.25</b>	<b>600</b>	<b>-21.96</b>
Unit 6	Particulate matter	mg/Nm3	86	RSD	AOH	AOH	AOH	AOH	<b>86.00</b>	<b>100</b>	<b>-14.00</b>
	Sulphur dioxide	mg/Nm3	909	RSD	AOH	AOH	AOH	AOH	<b>909.00</b>	<b>600</b>	<b>51.50</b>
	Nitrogen oxides	mg/Nm3	387	RSD	AOH	AOH	AOH	AOH	<b>387.00</b>	<b>600</b>	<b>-35.50</b>
Unit 7	Particulate matter	mg/Nm3	80	RSD	67	RSD	86	93	<b>81.50</b>	<b>100</b>	<b>-18.50</b>
	Sulphur dioxide	mg/Nm3	1119	RSD	986	RSD	1021	952	<b>1019.50</b>	<b>600</b>	<b>69.92</b>
	Nitrogen oxides	mg/Nm3	450	RSD	423	RSD	540	575	<b>497.00</b>	<b>600</b>	<b>-17.17</b>
Unit 8	Particulate matter	mg/Nm3	28	23	30	23	66	56	<b>37.67</b>	<b>30</b>	<b>25.57</b>

Sulphur dioxide	mg/Nm <sup>3</sup>	776	849	948	849	1051	1275	<b>958.00</b>	<b>100</b>	<b>858.00</b>
Nitrogen oxides	mg/Nm <sup>3</sup>	317	354	375	354	590	579	<b>428.17</b>	<b>100</b>	<b>328.17</b>
Mercury	mg/Nm <sup>3</sup>	0.016	0.018	0.021	0.016	0.017	0.018	<b>0.02</b>	<b>0.03</b>	<b>-33.33</b>

Stack emission monitored by M/s. Greenleaf Envirotech Pvt. Ltd., Surat. ( COH- Capital overhauling, RSD- Reserve shutdown )

**ANNEXURE - III**  
**AVERAGE AMBIENT AIR QUALITY AND COMPARISON WITH THE STANDARDS**  
**DURING APRIL - 2021 TO SEPTEMBER - 2021**

Location	Parameters	Units	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Avg.	Standards (Specified Norms)	% Deviation from the Standard.
Timba	Particulate Matter-10 (PM 10)	microgram / m3	69	65	56	65	42	39.5	56.1	<b>100</b>	<b>-43.92</b>
	Particulate Matter-2.5 (PM 2.5)	microgram / m3	47.5	36.4	30.1	36.4	22.4	19.4	32.0	<b>60</b>	<b>-46.61</b>
	SO <sub>2</sub>	microgram / m3	16.4	14.7	9.0	14.7	9.3	8	12.0	<b>80</b>	<b>-84.98</b>
	NOx	microgram / m3	20.6	12.9	8.3	12.9	8.1	6.1	11.5	<b>80</b>	<b>-85.65</b>
Sevalia	Particulate Matter-10 (PM 10)	microgram / m3	72	60	50	60	56.8	49.4	58.0	<b>100</b>	<b>-41.97</b>
	Particulate Matter-2.5 (PM 2.5)	microgram / m3	50.9	32.8	20.9	32.8	23.3	20.7	30.2	<b>60</b>	<b>-49.61</b>
	SO <sub>2</sub>	microgram / m3	22.3	17.4	14.2	17.4	16	11.9	16.5	<b>80</b>	<b>-79.35</b>
	NOx	microgram / m3	19.8	11.3	9.3	11.3	11.2	8.2	11.9	<b>80</b>	<b>-85.19</b>
Coal plant	Particulate Matter-10 (PM 10)	microgram / m3	78	74	71	74	63.4	75.2	72.6	<b>100</b>	<b>-27.40</b>
	Particulate Matter-2.5 (PM 2.5)	microgram / m3	54.1	45.7	43.3	45.7	31.7	39.4	43.3	<b>60</b>	<b>-27.81</b>
	SO <sub>2</sub>	microgram / m3	24.3	20.5	19.6	20.5	17	19.5	20.2	<b>80</b>	<b>-74.71</b>
	NOx	microgram / m3	17.9	13.4	12.1	13.4	14.2	13.7	14.1	<b>80</b>	<b>-82.35</b>
Balasinor	Particulate Matter-10 (PM 10)	microgram / m3	42	40	44	40.0	49	42.7	42.9	<b>100</b>	<b>-57.07</b>
	Particulate Matter-2.5 (PM 2.5)	microgram / m3	25.5	26.9	28.9	26.9	25.0	21.8	25.8	<b>60</b>	<b>-56.94</b>
	SO <sub>2</sub>	microgram / m3	12.2	11	12.2	11.0	16	14.2	12.8	<b>80</b>	<b>-83.98</b>
	NOx	microgram / m3	9.4	10.1	11.3	10.1	15.0	11.3	11.2	<b>80</b>	<b>-86.00</b>
Hostel in colony	Particulate Matter-10 (PM 10)	microgram / m3	46	42	47	42.0	34	39.4	41.7	<b>100</b>	<b>-58.27</b>
	Particulate Matter-2.5 (PM 2.5)	microgram / m3	23.9	21.5	24.8	21.5	19.5	23.5	22.5	<b>60</b>	<b>-62.58</b>
	SO <sub>2</sub>	microgram / m3	9.5	10.6	8.7	10.6	8.1	9.7	9.5	<b>80</b>	<b>-88.08</b>
	NOx	microgram / m3	10.1	8.7	9.5	8.7	9.9	7.8	9.1	<b>80</b>	<b>-88.60</b>





## BOREWELL WATER SAMPLE ANALYSIS REPORT

Name of the party : M/s. Gujarat State Electricity Corporation Limited,  
Wanakbori Thermal Power Station, Taluka-Galteshwar, District-Kheda: 388239.

Sample collected by : M/s. Greenleaf Envirotech Private Limited, Surat

Work Order no. : WTPS/EEEC/Env/1445-B/Ext PO-78018/7308 dated 18/9/2019.

Analysis report for : Under ground water sample

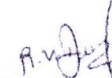
Date of sampling : 29/1/2021

Mode of sampling : Grab

Testing method : IS 10500 & APHA standard method & IS 3025.

Sr. No.	Parameter	Unit	Source of Borewell water sample		Desirable limit
			Borewell no. 17 at sangole road	Borewell no. 11 at colony gate	
1	Colour	Hazen unit	Colourless	Colourless	05
2	Turbidity	N.T.U.	<0.5	<0.5	05
3	pH	pH unit	7.73	7.90	6.5 to 8.5
4	Total hardness as CaCO <sub>3</sub>	mg/lit	310	340	300
5	Calcium as (Ca)	mg/lit	56.1	44.1	75
6	Magnesium as (Mg)	mg/lit	75.3	64.8	30
7	Copper as Cu	mg/lit	BDL	BDL	0.05
8	Iron as Fe	mg/lit	0.01	0.02	0.3
9	Manganese as Mn	mg/lit	BDL	BDL	0.1
10	Chloride as Cl <sup>-</sup>	mg/lit	78.0	86.0	250
11	Sulphate as SO <sub>4</sub> <sup>2-</sup>	mg/lit	46.6	91.5	200
12	Nitrate as NO <sub>3</sub>	mg/lit	13.5	16.3	45
13	Fluoride as F	mg/lit	0.6	0.8	1.5
14	Phenolic compounds	mg/lit	BDL	BDL	0.001
15	Mercury as Hg	mg/lit	BDL	BDL	0.001
16	Cadmium as Cd	mg/lit	BDL	BDL	0.01
17	Selenium as Se	mg/lit	BDL	BDL	0.01
18	Arsenic as As	mg/lit	BDL	BDL	0.01
19	Cyanide as CN	mg/lit	BDL	BDL	0.05
20	Lead as Pb	mg/lit	BDL	BDL	0.05
21	Zinc as Zn	mg/lit	BDL	BDL	5
22	Chromium as Cr <sup>6+</sup>	mg/lit	BDL	BDL	0.05
23	Residual chlorine	mg/lit	BDL	BDL	0.2 min (when chlorinated)
24	Total dissolved solid	mg/lit	492.2	561.5	500
25	Alkalinity as CaCO <sub>3</sub>	mg/lit	255.6	324.0	200
26	Aluminium as Al	mg/lit	BDL	BDL	0.03
27	Boron as B	mg/lit	BDL	BDL	1.0
28	Mineral oil	mg/lit	BDL	BDL	0.01
29	Total coliform	MPN/100m	Not detected	Not detected	Absent
29	Taste		Agreeable	Agreeable	Agreeable
30	Odour		Unobjectionable	Unobjectionable	Unobjectionable

BDL (Below Detectable Limit): Copper-0.01, Manganese-0.01, Phenolic compound-0.001, Mercury-0.001, Cadmium-0.001, Selenium-0.001, Cyanide-0.001, Lead-0.01, Zinc-0.01, Chromium as Cr<sup>6+</sup>-0.03, Res. Chlorine-0.1, Aluminium-0.01, Boron-0.1, Mineral oil-0.1

  
 Authorized Signatory  
 Rekha Der

