



ENVIROCHECK

House of Environmental Pollution Monitoring and Analysis

Office : 63/B, Rastraguru Avenue, Kolkata - 700028

Lab : 189 & 190, Rastraguru Avenue, Kolkata - 700028

Phone : 2579-2889/2891/6459-1174 / Fax : 2529-9141

E-mail : envcheck@cal2.vsnl.net.in / Website - www.envirocheck.org

GROUND WATER ANALYSIS REPORT FOR RADISSAN BLUE HOTEL PROJECT BY DS (ASSAM) HOSPITALITY LTD., GUWAHATI, ASSAM

MONITORED BY :
ENVIROCHECK
189, Rastraguru Avenue,
Calcutta - 700 028

WORK ASSIGNED BY :
Center for Sustainable Development
53/D, Rajendra Avenue
Uttarpara, Hooghly, W.B

LOCATION OF SAMPLING :
GW1 : Tap of Borewell inside the Project Site

MODE OF SAMPLING: Grab & mixed.
Date : 06.08.2014

| No. | Parameters | Results (GW1) | Permissible Limit |
|-----|---|---------------|-------------------|
| 1 | Colour | 1.0 | 25 |
| 2 | Odour | Odourless | Unobjectionable |
| 3 | Taste | Acceptable | Agreeable |
| 4 | pH | 7.28 | 6.5 to 8.5* |
| 5 | Total Hardness as CaCO ₃ (mg./l) | 200.0 | 600 |
| 6 | Calcium as Ca (mg./l) | 52.91 | 200 |
| 7 | Magnesium as Mg (mg./l) | 16.3 | 100 |
| 8 | Chloride as Cl (mg./l) | 128.50 | 1000 |
| 9 | Iron as Fe (mg./l) | 0.80 | 1 |
| 10 | Arsenic (mg./l) | BDL | 0.05* |
| 11 | Cadmium (mg./l) | BDL | 0.01* |
| 12 | Chromium (mg./l) | BDL | 0.05* |
| 13 | Copper as Cu (mg./l) | BDL | 1.5 |
| 14 | Cyanide(mg./l) | BDL | 0.05* |
| 15 | Lead (mg./l) | BDL | 0.05* |
| 16 | Mercury(mg./l) | BDL | 0.001* |
| 17 | Nitrate as NO ₃ (mg./l) | 8.2 | 100 |
| 18 | Total Dissolved Solid (mg/l) | 620.0 | 2000 |
| 19 | Phenolic Compounds as Phenol (mg./l) | BDL | 0.002 |
| 20 | Zinc as Zn (mg./l) | 0.8 | 15 |
| 21 | Sulphate as SO ₄ (mg./l) | 32.5 | 400 |
| 22 | Turbidity (NTU) | 1.2 | 10 |



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| No. | Parameters | Results (GW1) | Permissible Limit |
|-----|--------------------------------|---------------|-------------------|
| 23 | Residual Free chlorine (mg./l) | BDL | 0.2* |
| 24 | Fluoride as F (mg./l) | BDL | 1.5 |
| 25 | Manganese as Mn (mg./l) | BDL | 0.3 |
| 26 | Mineral Oil (mg./l) | BDL | 0.03 |
| 27 | Alkalinity (mg./l) | 150.0 | 600 |
| 28 | Aluminium as Al (mg./l) | BDL | 0.2 |
| 29 | Boron (mg./l) | BDL | 5 |
| 30 | Total Coliform (CFU/100ml.) | <1, <10, <100 | Absent |
| 31 | E. Coli (CFU/100ml.) | <1, <10, <100 | Absent |

N.B : <1 indicate No Colony developed in 1 ml. Sample.
<10 indicate No Colony developed in 0.1 ml. Sample.
<100 indicate No Colony developed in 0.01 ml. Sample.

CFU - Colony Forming Unit

* Desirable limit and Permissible limit are same due to no relaxation for Permissible Limit as per IS 10500, 1991 (Revised)

Approved by:

Name: Dr. Ajoy Paul
For ENVIROCHECK
Date of Issue : 21.08.2014
Seal

