



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

To,

Date: 27.07.2016

Dr. A. Mehtrotra, Director (S)
Ministry of Environment, Forest & Climate Change
Western Region Office,
Kendriya Paryavaran Bhavan,
Link Road No.3, E-5 Ravishankar Nagar
Bhopal-462016

PCB ID # 14983

Subject: Compliance Status of Environmental clearance for expansion and common incineration facilities at Ankleshwar by M/s Bharuch Enviro Infrastructure Limited

Ref :- Environmental Clearance No. 10-48/2007-IA-III dated 4th March, 2008
Environmental Clearance No. F. 10-10/2014-IA.III dated 31st December 2015.

Dear Sir,

BEIL is operating a TSDF facility consisting of a secured land fill Facility , two common Incinerators and MEE located at plot No # 9701-9716 , 9801-9828, 9901-9928, 9601-9604, 10001-10008 , G-7 & 8 , 7924 -7927 , 9401 – 9412 , 9501 – 9506, 7905 E To H , GIDC estate, Ankleshwar-393002, Dist.Bharuch,Gujarat.

We are submitting here with the half yearly Compliance status report for period January 2016 to June 2016 of Environmental clearance for expansion and common incineration facilities at Ankleshwar issued by MOE&F letter No. 10-48/2007 IA-III dated 04th March, 2008 & F. 10-10/2014-IA.III dated 31st December 2015.

BEIL has received and disposed landfillable Hazardous waste as below

During 1st January to 30th June 2016: 135335.319 MT,

Cumulative quantity disposed in landfill from the beginning (up to 30.06.2016): 2370043.402 MT

Incinerable waste details are as follows;

Receipt	Incineration
Current year : 12689.129 MT (01.01.2016 to 30.06.2016)	Current year : 12822.335 MT (01.01.2016 to 30.06.2016)
Cumulative : 196025.455 MT (Up to 30.06.2016)	Cumulative : 178610.607 MT (Up to 30.06.2016)

CIN No.: U45300GJ1997PLC032696

Works Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)
Phones (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : panjwania@uniphos.com
Regd. Office : Plot No. 117-118, GIDC Estate, Ankleshwar 393 002, Dist.: Bharuch. (Gujarat)

We would like to bring to your kind attention that based on trials for Co processing of liquid & solid waste in cement kiln at M/s, Ambuja Cement in May 2011 & February 2015, CPCB /GPCB have granted permission to send liquid & solid waste for co processing. We are sending blended liquid & solid waste to m/s Ambuja Cement, Kodinar, Gujarat for co processing. During 01.01.2016 to 30.06.2016, we have sent 1654.210 MT of waste for co-processing in cement kiln. Cumulative quantity 13562.790 MT.

We are regularly submitting Information as per the Annexure-IV of protocol for performance Evaluation and Monitoring of our TSDf to Gujarat Pollution Control Board, Regional office Ankleshwar & HO Gandhinagar, Central Pollution Control Board, New Delhi and Ministry of Environment & Forests, New Delhi. Copies of covering letters of last three quarterly protocols are attached here with.

We would like to bring to your kind attention that the 2nd incineration system at the site is commissioned and is in operation. MEE System also commissioned, utilizing the steam recovered from the incineration plant. We have been granted Consolidated Consent and Authorization vide no. 50809 dated 29-10-2012, which is valid up to 31-07-2017. The same has been amended vide order no. GPCB/CCA-BRCH-167(13)/ID-14983/152395, GPCB/CCA-BRCH-167(14)/ID-14983/214288, GPCB/CCA-BRCH-1679140/ID-14983/300183, GPCB/CCA-BRCH-167(14)/ID-14983/305591, GPCB/CCA-BRCH-167(14)/ID-14983/341162 and GPCB/CCA-BRCH-167(14)/ID-14983/350224 dated 04/07/2013, 23/05/2014, 03/01/2015, 27/02/2015 08/01/2016 and 30/03/2016 respectively.

We have also got EC & CC&A to expand the landfill in Phase III with construction of new cells at the space between Phase I and Phase II & is in operation.

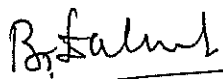
Soft copies of the details are also enclosed herewith in the attached CD.

We hope that the above is in order. In case you need any additional information, we can provide the same on hearing from you.

Thanking You,

Yours faithfully,

For, Bharuch Enviro Infrastructure Limited


(Authorized signatory)

CC : Gujarat pollution control board, Ankleshwar

: Central pollution control board, Vadodara

Compliance Status of Environmental clearance for expansion and common incineration facilities at Ankleshwar by M/s Bharuch Enviro Infrastructure Limited

Environmental Clearance No. 10-48/2007-IA-III dated 4th March, 2008

Reference is invited to letters No. camp/f/28/07, No. camp/f/44/07, dated 7.6.2007 and dated 18.9.2007 by M/s Bharuch Enviro Infrastructure Limited on the above-mentioned subject. No Objection Certificate from the Gujarat State Pollution Control Board has been obtained vide Consent to Establish No. GPCB/CE/BRCH/NOC-3354CCA-167(5)/14483, dated 22.5.2007.

1	The project involves development & operation of a secured landfill for treatment, storage and disposal of hazardous waste at GIDC, Ankleshwar, Gujarat. BEIL designed the existing TSDF with German Technical Assistance through NPC. New Delhi as phase -1 with a capacity of 5,00,000 MT and Incineration capacity at 6.5 Million K. Cal/hour. At present there are 450 member units who use secured landfill facility, during the last seven years of the operation of the facility, BEIL reported to have collected and disposed of more than 4,16,000 MT of hazardous waste and the existing facility is reported to be sufficient only till the end of 2006. Hence, BEIL proposes to expand the existing. Facility as per the CPCB guidelines. The cost of the proposed expansion is estimated to be about Rs.45.45 Crores. The details of the existing and proposed expansion are given as follows:	Noted.		
Sr. No.	Activity	Existing	Proposed	
1	Secured Landfill (SLF)	Capacity: 5,00,000 MT	Additional Capacity: 14,00,000 MT	Noted and complied. Phase 1 – after disposal of waste, was capped in March 2007. Phase 2 landfill operation started in March 2007
2	Incinerator	Capacity: 6.5 million K. Cal/hour (24 – 60 MT per day)	Additional Incinerator capacity: 25 Million K. Cal/hour with heat recovery system (i.e.6-10 MT/hr)	Complied BEIL has commissioned second Incinerator with heat recovery system capacity: 6.5 million K. Cal/hour (24 – 60 MT per day) with all pollution control measures and is being operated.
3	Solvent Recovery System	-	50 MT/day	Project is hold
4	Drum decontamination and disposal system	-	500 No. of Drums/day	Company has incorporated drums decontamination system in the year 2008 and for that we have obtained consent to

				operate. Drums decontamination capacity - 500 nos/day.
5	Evaporation plant	-	15 MT/hour	Complied Evaporation plant with capacity of 15 MT/Hr. is installed and operated. For that we have obtained Consent to operate i.e. CC &A AWH 50809 valid up to 31.07.2017.
6	Fly Ash Brick Manufacturing plant	-	10,000 Nos/day	Project is hold
7	Bio-gas plant from Kitchen waste	-	5 MT/day	Complied. Company has obtained Authorization from GPCB.
2	All the proposed facility, except landfill expansion, stated to be accommodated in the existing area itself. Waste generated from the treatment facility will be disposed off in secured landfill which includes ash from incinerated around 12.600 MT/Year: Discarded packing materials around 5,40,000 nos/yeas, the salt from Multiple Effect Evaporation system around 9,000 MT / Year. With regard to the capacity of the facility it was indicated that second phase of secured landfill facility will be 17.00 Lacs MT and the additional common incineration system will be 25.00 million k cal per hours. Public hearing was conducted on 30.08.2005 based on Environmental Impact Assessment. Minutes of public hearing were submitted. The proponents made a detailed presentation on each of the issues raised by the public and the action taken report.			Complied The Company has set up second incinerator of capacity 6.5 Million K cal / Hr with heat recovery system and MEE. The ash generated from Incinerator and the salt generated from MEE plant are disposed in landfill of BEIL.
3	The proposal falls under the category 'A', 7(d) of Environmental Impact Assessment Notification 2006 and was considered by Expert committee at its meeting held on 21 st & 22 nd June, 2007 and 23 rd , 24 th & 25 th January, 2008 and has recommended. Accordingly, the clearance is here by accorded under Environment Impact.			Noted

A. SPECIFIC CONDITIONS:

Sr. No.	Description	Status
1	The project proponent shall ensure that the TSDF fulfils. All the provision of hazardous waste (management and handling) rules 2003 and the design of landfill is as per the guidelines of the Central Pollution Control	Complied. Company has constructed Landfill as per CPCB guideline. IIT Delhi, is guiding for construction and operation of the Landfill

	Board with proper leachate collection arrangement.																					
2	The project proponent shall ensure that the transportation of the hazardous wastes to the TSDF conforms to the norms laid down in the hazardous waste (Management and Handling) rules 2003.	Complied Total Approved 102 Vehicles are only used for Transportation of Hazardous waste from member Industries to TSDF																				
3	The TSDF shall only handle the waste generated from the member units.	Complied The waste generated from members of BEIL is only accepted who have valid CC&A obtained from GPCB. Member List Landfill Members Details <table border="1"> <tr> <td>Ankleshwar</td> <td>372</td> </tr> <tr> <td>Panoli</td> <td>144</td> </tr> <tr> <td>Jhagadia</td> <td>50</td> </tr> <tr> <td>others</td> <td>580</td> </tr> <tr> <td>Total</td> <td>1146</td> </tr> </table> Incinerator Members Details <table border="1"> <tr> <td>Ankleshwar</td> <td>196</td> </tr> <tr> <td>Panoli</td> <td>67</td> </tr> <tr> <td>Jhagadia</td> <td>26</td> </tr> <tr> <td>others</td> <td>240</td> </tr> <tr> <td>Total</td> <td>529</td> </tr> </table>	Ankleshwar	372	Panoli	144	Jhagadia	50	others	580	Total	1146	Ankleshwar	196	Panoli	67	Jhagadia	26	others	240	Total	529
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4	Forced evaporation shall be provided to treat the effluent/leachate generated from the landfill.	Complied Multi Effect Evaporation (MEE) Plant installed and under operation. Part of Effluent / Leachate generated from the landfill is evaporated at the site and remaining is sent to M/s Enviro Technology Limited , Ankleshwar (CETP) for further treatment and disposal as per the consent given by GPCB																				
5	All the conditions stipulated in the letter of Gujarat PCB vide their letter dated 22.05.2007 should be strictly implemented along with hazardous (Management and Handling) Rules 2003	Complied																				
6	No ground water shall be tapped for project.	Complied We have provided monitoring wells at upstream and downstream of the TSDF.																				
7	The project proponent shall monitor the ambient air quality, groundwater and noise abutting the site as per norms laid down by CPCB.	Complied. Company is carrying out internally and through externally regular monitoring of Ambient Air, Stacks, Ground water, noise level etc. All parameters are well within the limit. The monitoring results are attached for period January to June 2016																				
8	Incineration of hazardous wastes shall be	Complied																				

	carried as per the guidelines of CPCB. The emissions from the incinerator shall be passed through APCS and disposal through 30 meter stack.	Two stages Scrubbing system is provided for Air pollution control. The stack height of Incinerator plant is 45 meter.
9	Project proponent shall ensure that wastes with organic content >5% of degradable organic matters are not disposed into the landfill. However, required arrangement for collection treatment and disposal of gases from the landfill of any, should be provided.	<p>Complied.</p> <p>We are carrying out finger-print analysis of every truck load of waste received at site. Comprehensive analysis is being carried out at the time of enrolling members. If organic content is high, the waste is sent for incineration. Only inorganic waste or waste meeting acceptance criteria, is sent to landfill</p> <p>We are monitoring regularly the vents provided at the closed portion of the landfill and the concentrations of hydrocarbons are very low.</p> <p>Typical reports of comprehensive analysis and finger-print analysis are attached</p>
10	Project proponent shall have environmental management plan and onsite emergency management plan.	<p>Complied</p> <p>BEIL has Implemented prestigious Environmental Management system standard ISO 14001 & OHSAS 18001 Safety system.</p> <p>BEIL has prepared on site Emergency plan and it is updated annually. Mock drills are also being conducted</p>
11	Project proponent shall carry out periodical/groundwater/soil monitoring in and around the site to check the contamination including TCLP test for heavy metals.	<p>Complied.</p> <p>Regular monitoring of ground water and soil is being carried out. The monitoring results are attached</p>
12	Adequate dust and noise separation measures should be put in place during construction of the plant.	Complied
13	Green belt development to a tune of 41,000 sq mts with thick canopy trees around the project site should be taken up to mitigate the impacts on the overall air quality at the site.	<p>Tree plantation done. Also we have done plantation in GIDC area.</p> <p>225 Nos trees planted during period January to June 2016.</p>
14	The groundwater, surface water and air quality should be monitored regularly to assess the leachate contamination.	<p>Complied.</p> <p>Company is carrying out regular monitoring of Ambient Air, Ground water, and surface water internally by our own laboratory and externally through third party. Reports are attached</p>
15	A leachate collection system should be provided to collect the leachate at a	<p>Complied</p> <p>A well designed leachate collection system is</p>

	collection point. Treatment facility for the collected leachate should be provided. The treated water shall be reused as far as possible in the project.	developed and the leachate is either treated at the Multiple Effect Evaporation Plant or sent to CETP for treatment and disposal. The leachate treatment data is submitted to GPCB along with monthly report and quarterly Protocol																		
16	The landfill site should be as per the norms laid down by CPCB.	Complied. We are following CPCB guideline for construction and operation.																		
17	A separate environment management cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a senior executive who will report directly to the chief executive of the organization.	Complied. Company have separate Environmental Management cell. Unit Head is directly reporting to Director.																		
18	The funds earmarked for environment protection measures should be maintained in a separate account and there should be no diversion of these funds for any other purpose. A year wise expenditure on environmental safeguards should be reported to this ministry's regional office at Bhopal.	Complied. Amount deposited in Escrow Fund are as below: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Year</th> <th>Amount in Rs.</th> </tr> </thead> <tbody> <tr> <td>2009-2010</td> <td>19,41,848</td> </tr> <tr> <td>2010-2011</td> <td>22,15,273</td> </tr> <tr> <td>2011-2012</td> <td>32,09,042</td> </tr> <tr> <td>2012-2013</td> <td>44,28,679</td> </tr> <tr> <td>2013-2014</td> <td>57,33,000</td> </tr> <tr> <td>2014-2015</td> <td>72,49,000</td> </tr> <tr> <td>2015-2016</td> <td>89,27,000</td> </tr> <tr> <td>2016-17 (Jan. to June 2016)</td> <td>46,92,000</td> </tr> </tbody> </table> The above fund is not utilized at present	Year	Amount in Rs.	2009-2010	19,41,848	2010-2011	22,15,273	2011-2012	32,09,042	2012-2013	44,28,679	2013-2014	57,33,000	2014-2015	72,49,000	2015-2016	89,27,000	2016-17 (Jan. to June 2016)	46,92,000
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B. GENERAL CONDITIONS:

Sr. No.	Description	Status
1	Construction of the proposed structures should be undertaken meticulously confirming to the existing central/local rules and regulations. All the construction designs/drawings relation to the proposed construction activities must have approvals of the concerned state government department/agencies.	Complied. The Landfill construction design/drawing approved by GPCB
2	To meet any emergency situation, appropriate fire-fighting system should be available. Appropriate arrangements for uninterrupted power and water supply to meet the	Complied The TSDF has 1000 KL fire water arrangement. The fire Hydrant system is designed as per the TAC guideline. All storage sheds are covered by

	requirements of the environment protection equipment and continuous water supply for the fire fighting system should be made.	water sprinkler system as well as heat and smoke detector system. TSDF has two pumps of capacity of 273 m ³ /Hr Electricity driven as well as diesel driven
3	Full support should be extended to the officers of this ministry's regional office at Bhopal and the officers of the central and furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	Noted and complied
4	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this ministry for modification in the clearance conditions or imposition of new one for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.	Noted and complied. We have obtained EC & CCA to add capacity of Landfill as Phase # 3 at existing site & is in operation.
5	This ministry reserves the right to revoke this clearance. If any of the conditions are not complied with to the satisfaction of this ministry.	Noted
6	This ministry or any other competent authority may stipulate any other additional conditions subsequently. If deemed necessary, for environmental protection, which shall be compelled with.	Noted
7	A copy of the clearance letter shall be marked to the concerned panchayat/local NGO, if any, from whom any suggestion/representation has been received while processing the proposal.	Complied. We had marked the copy of the clearance letter to all the concerned dated 24.03.2008
8	Gujarat Pollution Control Board should display a copy of the clearance letter at the district industries center and collector's office/tehsildar's office for 30 days.	Noted
9	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project one of which shall be in the vernacular language of the locality concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the Gujarat State Pollution Control Board and may	Complied. We have given advertisement in papers SANDESH & THE INDIAN EXPRESS dated 22.03.2008

	also be seen at website of the ministry of environment & forests at http://www.envfor.nic.in	
10	The project proponents should inform regional office Bhopal as well as the ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of work.	<p>Noted. The consent & Authorization for the project is accorded by GPCB vide letter no GPCB/CCA-BRCH-167(13)/ID-14983/134176 dtd 04.01.2013</p> <p>WE have informed MoEF-Bhopal as well as ministry the date of start of work and financial closure by concerned authority via our letter BEIL-PH-III/MOEF/03 dated 19.12.1014.</p>

Compliance Status of Environmental Clearance EC# F.No.10-10/2014-IA.III for Expansion of Secured Landfill (Phase-III) of Existing Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF) in GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat) by M/s Bharuch Enviro Infrastructure Ltd. Dated 31.12.2015

Environmental Clearance No. F. 10-10/2014-IA.III dated 31st December 2015.

2. The proposal for Expansion of Secured Landfill (Phase-III) of Existing Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF) in GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat) by M/s Bharuch Enviro Infrastructure Ltd, was considered by the Expert Appraisal Committee (EAC) in the Ministry for Infrastructure Development, Coastal Regulation Zone, Building/Construction and Miscellaneous Projects, in its meeting held on 24th-26th June, 2015

3.	The details of the project, as per the documents submitted by the project proponents (PP), and also as informed during the above EAC meetings, are reported to be as under:-	
	(ii). The Project was accorded TOR vide letter No. 10-10/2014-IA-III dated 18.09.2014.	Noted
	(iii). The Project involves expansion of Secured Landfill (Phase-III) of existing Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF) in GIDC Industrial Estate, Ankleshwar of District Bharuch (Gujarat) by M/s Bharuch Enviro Infrastructure Ltd. The Project is located at 21°36'55"-21°37'09" Latitude and 73°02'03"-73°02'59" longitude.	Noted
	(iv). The Total site area is 69 acres, pit area 2.98 acres and closure area is 14.755 acres.	Noted
	(v). Green Belt development (20% of construction projects and 33% for others). The main objective of the green belt is to provide a barrier between the plant surroundings areas. Total 2,79,233.34 sqm land area is available at site; out of this about 41,000 sqm (14.683%) area is covered as green belt and other forms of greenery.	Noted. We have developed a green belt along the periphery. However it is a continuous Process.
	(vi). Water requirement will be met through GIDC water supply. Total GIDC water supply required is at 610 KL/day for industrial purpose and 26 KLD for domestic Purpose.	Noted. The Water Requirement is fulfilled by the GIDC water only.
	(vii). The waste water generation is limited	Noted.

	to 312 KLD.	
	(viii). The quantity of wastewater generated will be 80.5 KLD from various stages of the operation and most of the waste water is treated and recycled to minimize the usage of ground water. The entire waste water will be treated and reused for various activities such as vehicle tyre washing, dust suppression	Noted.
	(ix). No additional power is required. Gujarat Electricity Board (GEB) will supply the power. In case of power failure D.G. Set can be used (2×600 kVA capacity each).	Noted
	(x). Investment/Cost: The total cost of the project is Rs. 30 Crores.	Noted
	(xi). Public Hearing: Public Hearing is not required for Projects/activities located within the industrial estates/parks as per Office Memorandum from MoEF & CC (IA) letter no. j-11013/36/2014-ia-I DATED 10.12.2014	Noted
	(xii). Wildlife issues: There are no National Parks, Wildlife Sanctuary, biosphere reserves found in the 10 km buffer zone.	Noted
	(xiii). Forests Land: No Forest land is involved in the project	Noted
	(xiv). There are no Court cases/violations pending with the project proponent.	Noted
4.	The EAC, after detailed deliberation, recommended the project in its meeting held on 24 th – 26 th June, 2015 for grant of Environmental Clearance. As per the recommendations of EAC, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for the above mentioned project "Expansion of Secured Landfill (Phase-III) of Existing Integrated Common Hazardous Waste Treatment, Storage and Disposal Facility (TSDF) in GIDC Industrial Estate, Ankleshwar, District Bharuch (Gujarat) by M/s Bharuch Enviro Infrastructure Ltd." under the provisions of the EIA Notification, 2006 and amendments thereto and circulars issued thereon and subject to the compliance of the following specific and general conditions:	Noted
A.	SPECIFIC CONDITIONS:	

(i)	'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and control of Pollution) Act, 1981 and the Water (Prevention and Control of pollution) Act, 1974	Complied We have obtained CTE & CTO from GPCB.
(ii)	Water from bore-wells shall not be used for the proposed activities. Existing bore-wells shall be used only for monitoring the quality of ground water.	Noted & Complied. Water is used form GIDC. Bore-wells are only for ground Water monitoring Purpose.
(iii)	The proposed layout plan shall be realigned in such a way that the waste tipping area and processing area and other project components which produces maximum air and noise pollution is farthest from the habitation.	Noted and Complied. Existing site located inside notified industrial estate. We are monitoring for Ambient Air & Noise level & All parameters are well within the limit.
(iv)	State of the art measures shall be adopted for odor control from the plant.	Noted and Complied. Existing site & under operation. We are measuring VOC level by VOC meter. VOC level is well within the limit.
(v)	The Waste lying at the existing dumping site shall be excavated and should be accumulated to designated place within the site and this accumulated waste shall be compacted and closed scientifically after reaching the design height.	Noted. Existing Secured landfill Phase-1 has been capped and covered. Waste excavation is not applicable. Secured Landfill are already being compacted and closed scientifically.
(vi)	Project Proponent shall develop green belt as committed	Noted. We have developed a green belt along the periphery. However it is a continuous Process.
(vii)	The connectivity road to the side shall be as per IRC guidelines.	Noted & complied. Existing site. Connectivity to Road is already available.
(viii)	The waste is proposed to be transported through the village roads, the roads shall be properly widened or proper road for transportation shall be provided. Details shall be incorporated in the EMP.	Complied. Existing site, located inside notified industrial estate. Proper Road network is available to receive waste at site from members industries.
(ix)	The gas generated from the landfill facility shall be collected and disposed as per rules	Noted & complied. Existing site & under operation. Since the waste is treated, stabilized and Disposed, There is no Gas Generation from the Secured Landfill. Gas vents have been Provided for the Existing Sites and the same Provisions will be made for the Secured Landfill Phase-III. We are monitoring the vent pipes of landfill via 3 rd party. The records are maintained in the laboratory. (Results attached)
(x)	The proponent shall obtain necessary clearance from the Ground water Authority for the use of ground water.	Complied. Existing site & already obtained clearance from related authority. Ground water will be used only for monitoring purpose. The Water

		Requirement is fulfilled by the GIDC water Supply for other activities.
(xi)	The depth of the Landfill site shall be decided based on the ground water table at the site.	Noted and Complied. The landfill is being developed as per CPCB criteria & approved drawings before starting the construction work of cell.
(xii)	An On Site Emergency Management Plan shall be prepared and implemented.	Noted & Complied. Periodic On Site Emergency Plan is being Updated.
(xiii)	All recommendation of the EMP shall be compiled with letter and Spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to MoEF & CC along with half yearly compliance report to MoEF & CC-RO.	Noted & complied.
(xiv)	Environmental Monitoring programme shall be implemented as per EIA-EMP report and guidelines prescribed by CPCB for Hazardous waste facilities. Periodical ground water/soil monitoring to check the contamination in and around the site be carried out.	Noted & complied Existing site. We have monitoring program as per CPCB criteria prescribed for Hazardous waste facilities. We will continue same for Phase-III area also.
(xv)	The Leachate from the facility shall be collected and treated to meet the prescribed standards before disposal.	Noted & complied. Existing site & Generated leachate is being treated in own MEE and /or Enviro Technology Limited (CETP). The Leachate so generated from Phase -III will be treated at own MEE and /or Enviro Technology Limited (CETP) as per authorization.
(xvi)	Rain water runoff from the landfill area and other hazardous waste management area shall be collected and treated in the effluent treatment plant	Noted for complied. Storm water drains and rainwater runoff drains are provided. These are being monitored regularly and proper Treatment is provided.
(xvii)	The responses/commitments made to the issues raised during public hearing shall be complied with in letter and spirit. A Hard copy of the actions taken shall be submitted to the Ministry.	N.A. Public Hearing is Not Applicable as per MoEF memorandum No. J-11013/36/2014-IA-I Dated 10 th December,214
(xviii)	The proponent shall abide by all the commitments and recommendations made in the EIA/EMP report so also during their presentation to the EAC.	Noted.
B.	GENERAL CONDITIONS:	
(i)	The project proponent should set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied. Existing site. We have set up of separate Environment Management cell for effective implementation of Environmental safeguard.
(ii)	The Project proponent should extend full	Noted and Full support will be extended.

	support to the officers of this Ministry/regional Office during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect to mitigation measures and other environmental protection activities.	
(iii)	The Ministry reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environmental clearance under	Noted.
(iv)	In the event of a change in the implementation agency, a fresh clearance shall be obtained from the Ministry of Environment, forest and Climate Change.	Noted.
(v)	A copy of the clearance letter will be marked to concerned Panchayat/local NGO, if any, from whom any suggestions/representations has been made received while processing the proposal.	Noted
(vi)	The environmental safeguard contained in the EIA. Report should be implemented in letter and spirit.	Noted & complied.
(vii)	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/Tehsildar's Office for 30 days.	Noted and Complied. Letter dated 08.01.2016 sent to the GPCB Regional Office, District Industries centre and Collector's Office
(viii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall be reported to this Ministry and its concerned Regional Office	Noted & complied.
5.	The above stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act, 1974 the Air (Prevention and Control of pollution) Act, 1981, the Environment (Protection) Act, 1986, The Public Liability (Insurance) Act, 1991 and Municipal Solid Wastes (Management and Handling Rules, 2000 including the amendments and rules made thereafter.	Noted & complied. We have obtained CTE & CTO from GPCB.
6.	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted & complied. Existing site & already have applicable clearance/permissions from respective authority.
7.	The project proponent should advertise in at	Noted and Complied.

	<p>least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental clearance and copies of clearance letters are available with the State Pollution Control Board and Man also be seen on the website of the Ministry of Environment, forest & Climate Change at http://www.envfor.nic.in. The advertisement should be made within seven days from the date of receipt of The Clearance Letter and a copy of the same Should be forwarded to the Regional Office of this Ministry at Bhopal.</p>	<p>Advertisement Published in Times of India (English Language) and Divya Bhaskar (Gujarati Language). The Same has been informed to MoEF Regional Office Bhopal, MoEF New Delhi, CPCB Regional Office Vadodara and, GPCP Gandhinagar and GPCB regional Office Ankleshwar vide Letter # BEIL/ANK/EC/PH3 Dated 09.01.2016</p> <p>Advertisement copies are attached</p>
8.	<p>This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation vs. Union of India in Writ Petition (Civil) No. 460 of 2004 as may be applicable to this project.</p>	<p>Noted</p>
9.	<p>Any appeal against this clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green tribunal Act, 2010</p>	<p>Not applicable</p>
10.	<p>Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.</p>	<p>Noted</p>
11.	<p>A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla Parishad/ Municipal Corporation, Urban Local Body and the local NGO, if any from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.</p>	<p>Noted and complied. The Clearance Letter has been uploaded on the Company Website. The link for the same is http://www.tatvaglobal.com/comp/Phase-3-EC.pdf</p>
12.	<p>The proponent shall upload the status of the compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Noted.</p>
13.	<p>The Project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in Hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.</p>	<p>Noted & complied. We are submitting regularly ½ yearly report for all ECs conditions.</p>
14.	<p>The environmental statement for each financial year ending 31st March in Form – V as is mandated to be submitted by the project proponent to the concerned State</p>	<p>Noted & complied. Existing site. We are submitting Form –V (Environmental Statement) for each financial year.</p>

	Pollution Control Board as prescribed under the Environment (Protection) rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective regional Office of MoEF & CC by e-mail.	
15.	This issue with the prior approval of the Competent Authority.	Noted.



Date: 15.07.2016
The Regional Officer,
Gujarat Pollution Control Board
C/o Ankleshwar Research & Analytical Infrastructure Limited
Plot No. 1501, GIDC Estate,
Ankleshwar-393 002,
Dist: Bharuch, GUJARAT

PCBID: 14983

Kind attn: - Mr R.B. Trivedi

Dear Sir,

Sub :- Submission of Information as per the Annexure-IV of Protocol for performance Evaluation and Monitoring of the Common Hazardous Waste Treatment Storage and Disposal Facilities including Common Hazardous Waste Incinerators.

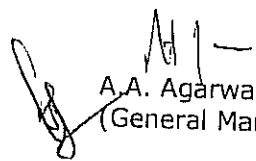
We are submitting herewith the necessary information as per the requirement of Annexure - IV of the Protocol for the period April-2016 to June-2016.

We would like to inform you that; BEIL has got CCA for landfill phase III. BEIL has also got CCA to send high calorific value hazardous solid waste mix for co-processing to valid authorized cement industry i.e. M/s, Ambuja Cement Ltd., Kodinar, Junagadh.

Kindly receive the same and acknowledge.

Thanking you.

Yours faithfully,
For Bharuch Enviro Infrastructure Ltd, Ankleshwar


A.A. Agarwal
(General Manager-Works)

cc:

1. Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi - 110 032.
2. Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110 003.
3. Member Secretary, Gujarat Pollution Control Board, Sector-10A, Paryavaran Bhavan, Gandhinagar-382 043

Received
Gujarat Pollution Control Board
RO Ankleshwar

97-9-99



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

PCBID: 14983

Date: 18.04.2016
The Regional Officer,
Gujarat Pollution Control Board
C/o Ankleshwar Research & Analytical Infrastructure Limited
Plot No. 1501, GIDC Estate,
Ankleshwar-393 002,
Dist: Bharuch, GUJARAT

Kind attn: - Mr. A.V. Shah

Dear Sir,

Sub :- Submission of Information as per the Annexure-IV of Protocol for performance Evaluation and Monitoring of the Common Hazardous Waste Treatment Storage and Disposal Facilities including Common Hazardous Waste Incinerators.

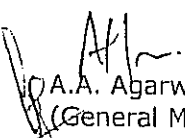
We are submitting herewith the necessary information as per the requirement of Annexure - IV of the Protocol for the period January-2016 to March-2016.

We would like to inform you that; we have got CTE for expansion of TSDF 3rd phase & applied for CTO. Phase III is ready to accept landfillable waste.

Kindly receive the same and acknowledge.

Thanking you.

Yours faithfully,
For Bharuch Enviro Infrastructure Ltd


A.A. Agarwal
(General Manager-Works)

CC:

1. Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi - 110 032.
2. Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110 003.
3. Member Secretary, Gujarat Pollution Control Board, Sector-10A, Paryavaran Bhavan, Gandhinagar-382 043

Received
Gujarat Pollution Control Board
R.O. Ankleshwar
18.4.16

CIN No.: U45300GJ1997PLC032696

Works Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)

Phones (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : panjwalia@uniphos.com

Regd. Office : Plot No. 117-118 GIDC Estate, Ankleshwar 393 002 Dist. : Bharuch (Gujarat)



BHARUCH ENVIRO INFRASTRUCTURE LIMITED

Date: 15.01.2016

PCBID: 14983

The Regional Officer,

Gujarat Pollution Control Board

C/o Ankleshwar Research & Analytical Infrastructure Limited

Plot No. 1501, GIDC Estate,

Ankleshwar-393 002,

Dist: Bharuch, GUJARAT

Kind attn: - Mr. A.V. Shah

Dear Sir,

Sub :- Submission of Information as per the Annexure-IV of Protocol for performance Evaluation and Monitoring of the Common Hazardous Waste Treatment Storage and Disposal Facilities including Common Hazardous Waste Incinerators.

We are submitting herewith the necessary information as per the requirement of Annexure - IV of the Protocol for the period October-2015 to December-2015.

We would like to inform you that; we have got CTE for expansion of TSDF 3rd phase.

Kindly receive the same and acknowledge.

Thanking you.

Yours faithfully,

For Bharuch Enviro Infrastructure Ltd

B.D. Dalwadi
(Chief Executive Officer)

CC:

1. Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, New Delhi - 110 032.
2. Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi - 110 003.
3. Member Secretary, Gujarat Pollution Control Board, Sector-10A, Paryavaran Bhavan, Gandhinagar-382 043

Received
Gujarat Pollution Control Board
R.O. Ankleshwar
16/1/16

CIN No.: U45300GJ1997PLC032696

Works Office : Plot No. 9701-16 GIDC Estate, Post Box No. 82, Ankleshwar 393 002, Dist. : Bharuch (Gujarat)

Phones (02646) 253135, 225228 • Fax : (02646) 222849 • E-mail : panjwanla@uniphos.com

Regd. Office : Plot No. 117-118, GIDC Estate, Ankleshwar 393 002, Dist.: Bharuch. (Gujarat)

Vimta Labs Limited
 Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, India
 T : +91 40 2726 4141
 F : +91 40 2726 3657

Driven by Quality. Inspired by Science.

ISSUED TO:
 BHARUCH ENVIRO INFRASTRUCTURE LIMITED
 PLOT NO. : 9701-16
 GIDC, ANKALESHWAR,
 GUJARAT- 393002
 INDIA

Report Number 00176/16/VLL/000/03

Issue Date : 2016-06-11

Your Ref W.O NO: 851617D064

and Date : 2016-05-10

KIND.ATTN: Mr. Dr. Hitendra Jani

Sample AMBIENT AIR QUALITY MONITORING

Page 1 of 2

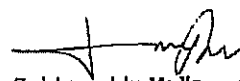
Sample Registration 2016-05-31 Sampling Date: 2016-05-27
 Analysis starting 2016-05-31 Analysis Completion 2016-06-15
 Samples collected at Terrace of Safety Room;
 Tests required: VOC;
 SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	Results
1	Benzene	µg/m ³	1.2
2	Bromobenzene	µg/m ³	BDL
3	Bromochloromethane	µg/m ³	BDL
4	Bromodichloromethane	µg/m ³	BDL
5	Bromoform	µg/m ³	BDL
6	p-Butylbenzene	µg/m ³	BDL
7	sec-Butylbenzene	µg/m ³	BDL
8	tert-Butylbenzene	µg/m ³	BDL
9	Carbon tetrachloride	µg/m ³	BDL
10	Chlorobenzene	µg/m ³	BDL
11	Chloroform	µg/m ³	BDL
12	2-Chlorotoluene	µg/m ³	BDL
13	4-Chlorotoluene	µg/m ³	BDL
14	Hexane	µg/m ³	BDL
15	1,2-di Bromo-3-chloropropane	µg/m ³	BDL
16	1,2 di Bromoethane	µg/m ³	BDL
17	Dibromomethane	µg/m ³	BDL
18	1,2 Dichlorobenzene	µg/m ³	BDL
19	1,3-Dichlorobenzene	µg/m ³	BDL
20	1,4-Dichlorobenzene	µg/m ³	BDL
21	1,1-Dichloroethane	µg/m ³	BDL
22	1,2-Dichloroethane	µg/m ³	BDL
25	1,1-Dichloroethene	µg/m ³	BDL
26	cis-1,2-Dichloroethene	µg/m ³	BDL
27	trans-1,2-Dichloroethene	µg/m ³	BDL
28	1,2-Dichloropropane	µg/m ³	BDL
29	1,4-Dichloropropane	µg/m ³	BDL
30	2,2-Dichloropropane	µg/m ³	BDL
31	1,1-Dichloropropene	µg/m ³	BDL

Method of Testing: For Volatile organic constituents USEPA Method TO 17A
 Remarks: Instrument used-GC-MS (AGILENT); Detection limits: For Volatile organic constituents: 0.01 µg/m³


 Dr. Subbareddy Mallampati
 Group Leader - Environment

Vimta Labs Limited
 Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, India
 T : +91 40 2726 4141
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Driven by Quality. Inspired by Science.

ISSUED TO:

BHARUCH ENVIRO INFRASTRUCTURELIMITED
 PLOT NO. : 9701-16
 GIDC, ANIKALESHWAR,
 GUJARAT- 393002
 INDIA

Report Number : **00176/16/VLL/000/03**

Issue Date : 2016-06-11

Your Ref W.O NO: 8516170064

KIND.ATTN: Mr. Dr. Hitendra Jani

and Date 2016-05-10

Sample **AMBIENT AIR QUALITY MONITORING**

Page 2 of 2

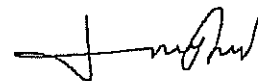
Sample Registration 2016-05-31 Sampling Date: 2016-05-27
 Analysis starting 2016-05-31 Analysis Completion 2016-06-15
 Samples collected at Terrace of Safety Room;
 Tests required: VOC;
 SAMPLE COLLECTED BY VIMTA LABS LTD

LAB REF.: EC

TEST RESULTS

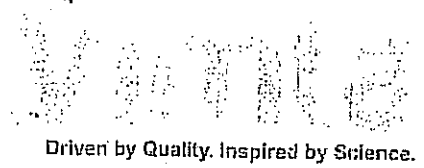
Sl. No.	PARAMETERS	UOM	Results
32	Ethyl Benzene	µg/m ³	0.8
33	Ethyl Acetate	µg/m ³	0.9
34	Hexachlorobutadiene	µg/m ³	BDL
35	Isopropanol	µg/m ³	BDL
36	Isobutylene	µg/m ³	BDL
37	p-Isopropyltoluene	µg/m ³	BDL
38	Dichloromethane	µg/m ³	BDL
39	Napthalene	µg/m ³	0.6
40	n-Propylbenzene	µg/m ³	BDL
41	Styrene	µg/m ³	BDL
42	1,1,1,2-Tetrachloroethane	µg/m ³	BDL
43	1,1,2,2-Tetrachloroethane	µg/m ³	BDL
44	Tetrachloroethane	µg/m ³	BDL
45	Toluene	µg/m ³	0.7
46	1,2,3-Trichlorobenzene	µg/m ³	BDL
47	1,2,4-Trichlorobenzene	µg/m ³	BDL
48	1,1,1-Trichloroethane	µg/m ³	BDL
49	1,1,2-Trichloroethane	µg/m ³	BDL
50	Trichloroethene	µg/m ³	BDL
51	1,2,3-Trichloropropane	µg/m ³	BDL
52	1,2,4-Trimethylbenzene	µg/m ³	BDL
53	1,3,5-Trimethylbenzene	µg/m ³	BDL
54	o,p-Xylene	µg/m ³	0.6
55	m-Xylene	µg/m ³	1.3
56	Bromomethane	µg/m ³	BDL
57	Chloroethane	µg/m ³	BDL
58	Chloromethane	µg/m ³	1.1
59	Dichlorodifluoromethane	µg/m ³	BDL
60	Trichlorofluoromethane	µg/m ³	BDL
61	Vinyl chloride	µg/m ³	BDL

Method of Testing: For Volatile organic constituents USEPA Method TO 17A
 Remarks: Instrument used-GC-MS (AGILENT); Detection limits: For Volatile organic constituents - 0.01µg/Nm³,
 ND - Not Detected or Below Detectable Limit



Dr. Subbareddy Mallampati
 Group Leader - Environment

Vimta Labs Limited
 Registered Office
 142, IDA Phase II, Cherlapally
 Hyderabad-500 051, India
 T : +91 40 2726 4141
 F : +91 40 2726 3657



ISSUED TO:

BHARUCH ENVIRO INFRASTRUCTURE LIMITED
 PLOT NO. : 9701-16
 GIDC, ANKALESHWAR,
 GUJARAT- 393002
 INDIA

Report Number 00176/16/VLL/000/04

Issue Date : 2016-06-

Your Ref W.O NO: 8516170064

KIND.ATTN: Mr. Dr. Hitendra Jani

and Date 2016-05-10

Sample AMBIENT AIR QUALITY MONITORING

Page 1 of 1

Sample Registration 2016-05-31 Sampling Date: 2016-05-27
 Analysis starting 2016-05-31 Analysis Completion 2016-05-15
 Samples collected at Terrace of Safety Room;
 Tests required: Poly Aromatic Hydrocarbon;
 SAMPLE COLLECTED BY VIMTA LABS LTD
 LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	METHOD OF TESTING / SAMPLING	Results
1	Naphthalene	µg/m ³	USEPA Method TO-13A	BDL
2	Acenaphthylene	µg/m ³	USEPA Method TO-13A	BDL
3	Acenaphthene	µg/m ³	USEPA Method TO-13A	BDL
4	Fluorene	µg/m ³	USEPA Method TO-13A	BDL
5	Phenanthrene	µg/m ³	USEPA Method TO-13A	BDL
6	Anthracene	µg/m ³	USEPA Method TO-13A	BDL
7	Fluoranthene	µg/m ³	USEPA Method TO-13A	BDL
8	Pyrene	µg/m ³	USEPA Method TO-13A	BDL
9	Benz(a)anthracene	µg/m ³	USEPA Method TO-13A	BDL
10	Chrysene	µg/m ³	USEPA Method TO-13A	BDL
11	Benzo(k)fluoranthene	µg/m ³	USEPA Method TO-13A	BDL
12	Benzo(b)fluoranthene	µg/m ³	USEPA Method TO-13A	BDL
13	Benzo(a)pyrene	µg/m ³	USEPA Method TO-13A	BDL
14	Indeno(1,2,3-cd)pyrene	µg/m ³	USEPA Method TO-13A	BDL
15	Dibenz(a,h)anthracene	µg/m ³	USEPA Method TO-13A	BDL
16	Benzo(ghi)perylene	µg/m ³	USEPA Method TO-13A	BDL

Instruments used: GC-MS/MS (Waters Quattro Micro mass);
 Instrument Detection Limits: 0.01 mg/kg
 BDL: Below Detection Limit.

Dr. Subbareddy Mallampati
 Group Leader - Environment



Ankleshwar Research & Analytical Infrastructure Ltd.

Plot No 1501, GIDC Industrial Estate, Ankleshwar - 393 002, (GUJARAT)

Ph : 02646 - 238297, 220439

Web : www.arail.in

E-mail : ankleshwarresearch@gmail.com & ankleshwarresearch@arail.in

Service Tax No. AAFC3766KST001,

PAN No. AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516056	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ambient Air Monitoring		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Instrument	RDS-APM 460	Calibration Due Date	26/02/2017
Sampling Location	Near Main Gate		
Sampling Duration	24 hrs.		
Any other information	--		

TEST RESULTS						
Sr. No.	Test Parameters	Unit	Results	Minimum Detection Limit	Test Method	Specification/ Limits
1	Particulate Matter (PM ₁₀)	µg/m ³	58.60	--	IS:5182 (Part XV)	100
2	Suspended Particulate Matter (SPM)	µg/m ³	236.10	--	IS:5182 (Part IV)	500
3	Particulate Matter (PM _{2.5})	µg/m ³	26.60	--	--	60
4	Sulphur Dioxide (SO ₂)	µg/m ³	40.58	--	IS:5182 (Part II)	80
5	Oxides of Nitrogen (NO _x)	µg/m ³	32.50	--	IS:5182 (Part VI)	80
6	Hydrogen Chloride (HCl)	µg/m ³	BDL	0.5	APHA	200
7	Chlorine (Cl ₂)	µg/m ³	BDL	0.5	IS:5182 (Part XIX)	100
8	Hydrocarbon (HC)	µg/m ³	BDL	0.5	IS:5182 (Part XVII)	160
9	Hydrogen Sulphide (H ₂ S)	µg/m ³	BDL	0.5	IS:5182 (Part VII)	500
10	Ammonia (NH ₃)	µg/m ³	5.78	--	APHA	100
11	Carbon Monoxide (CO)	mg/m ³	BDL	0.02	--	2
12	Lead (Pb)	µg/m ³	BDL	0.1	IS:5182 (Part XXII)	0.5
13	Nickel (Ni)	ng/m ³	BDL	0.5	--	20
14	Arsenic (As)	ng/m ³	BDL	0.1	--	6
15	Benzo(a) Pyrene (BaP)	ng/m ³	BDL	0.1	--	1
16	Ozone (O ₃)	µg/m ³	0.25	--	--	100
17	Benzene	µg/m ³	BDL	0.5	IS:5182 (Part XI)	5

REMARKS:

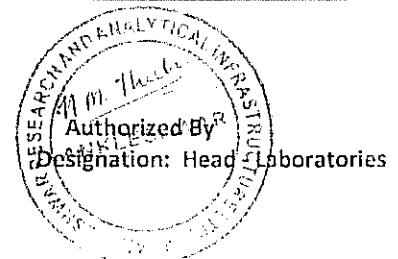
BDL: Below Detection Limit

Test results relate only to the condition prevailing at time of sampling.

The report shall not be reproduced except in full, without the written approval of the laboratory.

Analysed By

Checked By



Recognitions, approvals and certifications :

Recognised by MoEF, Govt of India, EP Act 1986, Environment Notification S.O. 1295 (E), dated (05/06/2012 up to 05/06/2017);

FDA, Govt of Gujarat approved; NABL, accredited; DSIR registered; OHSAS-18001 certified Laboratory, GPCB Schedule-I/Auditor



Ankleshwar Research & Analytical Infrastructure Ltd.

Plot No 1501, GIDC Industrial Estate, Ankleshwar - 393 002. (GUJARAT)

Ph. : 02646 - 238297, 220439

Web : www.arail.in

E-mail : ankleshwarresearch@gmail.com & ankleshwarresearch@arail.in

Service Tax. No. AAFC A3786KST001.

PAN No. AAFC A3766K

TEST REPORT

Report No.	ARAIL/E/160523007	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Stack Monitoring		
Sample Collection Date	23/05/2016	Sample Receipt Date	23/05/2016
Analysis Start Date	24/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Instrument	VSS1	Calibration Due Date	26/02/2017
Sampling Location	New Incinerator Plant		
Stack Height (m)	45	Stack Diameter (m)	1.84
Flue Gas Temperature (°C)	79	Exit Gas Velocity (m/sec)	4.69
Fuel used	Natural Gas		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Particulate Matter (PM)	mg/Nm ³	30.71		
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	58.56	IS:11255 (Part I)	50
3	Oxides of Nitrogen (NO _x)	mg/Nm ³	90.86	IS:11255 (Part II)	200
4	Hydrogen Chloride (HCl)	mg/Nm ³	25.56	IS:11255 (Part VII)	400
5	Chlorine (Cl ₂)	mg/Nm ³	BDL	EPA	50
6	Ammonia (NH ₃)	mg/Nm ³	13	EPA	9
7	Hydrocarbon (HC)	mg/Nm ³	5.94	IS:11255 (Part VI)	175
8	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	8.97	EPA (Electrochemical Sensor)	15
9	Carbon Monoxide (CO)	mg/Nm ³	34.11	IS:11255 (Part IV)	45
10	Hydrogen Fluoride (HF)	mg/Nm ³	BDL	EPA (Electrochemical Sensor)	100
11	Cd + Th (and its Compounds)	mg/Nm ³	BDL	IS:11255 (Part V)	4
12	Hg (and its Compounds)	mg/Nm ³	BDL	EPA	0.05
13	Lead (Pb)	mg/Nm ³	BDL	EPA	0.05
14	Chromium (Cr)	mg/Nm ³	BDL	EPA	0.5
15	Copper (Cu)	mg/Nm ³	BDL	EPA	
16	Nickel (Ni)	mg/Nm ³	BDL	EPA	
17	Zinc (Zn)	mg/Nm ³	BDL	EPA	
18	Vandium & Its Compound	mg/Nm ³	BDL	EPA	
19	Antimony	mg/Nm ³	BDL	EPA	
20	Arsenic	mg/Nm ³	BDL	EPA	
21	Manganese	mg/Nm ³	BDL	EPA	
				EPA	

Cont...

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Service Tax. No. AAFCOA3766KST001, PAN No. : AAFCOA3766K

TEST REPORT

Report No.	ARAIL/E/160523007	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16, GIDC, ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Stack Monitoring		
Sample Collection Date	23/05/2016	Sample Receipt Date	23/05/2016
Analysis Start Date	24/05/2016	Analysis Completion Date	28/05/2016


SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Instrument	VSS1	Calibration Due Date	26/02/2017
Sampling Location	New Incinerator Plant		
Stack Height (m)	45	Stack Diameter (m)	1.84
Flue Gas Temperature (°C)	79	Exit Gas Velocity (m/sec)	4.69
Fuel used	Natural Gas		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
22	Combustion Efficiency	%	96	EPA (Electrochemical Sensor)	--
23	Carbon Dioxide	%	7.4	EPA (Electrochemical Sensor)	--
REMARKS:					

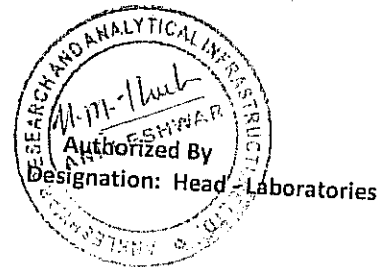
BDL: Below Detection Limit

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PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160523008	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Stack Monitoring		
Sample Collection Date	23/05/2016	Sample Receipt Date	23/05/2016
Analysis Start Date	24/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Instrument	VSS1	Calibration Due Date	26/02/2017
Sampling Location	Old Incinerator Plant		
Stack Height (m)	45	Stack Diameter (m)	1.77
Flue Gas Temperature (°C)	79	Exit Gas Velocity (m/sec)	4.5
Fuel used	Natural Gas		
Any other information	-		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/Limits
1	Particulate Matter (PM)	mg/Nm ³	38.60	IS:11255 (Part I)	50
2	Sulphur Dioxide (SO ₂)	mg/Nm ³	60.40	IS:11255 (Part II)	200
3	Oxides of Nitrogen (NOx)	mg/Nm ³	89.65	IS:11255 (Part VII)	400
4	Hydrogen Chloride (HCl)	mg/Nm ³	6.50	EPA	50
5	Chlorine (Cl ₂)	mg/Nm ³	BDL	EPA	9
6	Ammonia (NH ₃)	mg/Nm ³	16	IS:11255 (Part VI)	175
7	Hydrocarbon (HC)	mg/Nm ³	7.54	EPA (Electrochemical Sensor)	15
8	Hydrogen Sulphide (H ₂ S)	mg/Nm ³	9.58	IS:11255 (Part IV)	45
9	Carbon Monoxide (CO)	mg/Nm ³	38.12	EPA (Electrochemical Sensor)	100
10	Hydrogen Fluoride (HF)	mg/Nm ³	BDL	IS:11255 (Part V)	4
11	Cd + Th (and its Compounds)	mg/Nm ³	BDL	EPA	0.05
12	Hg (and its Compounds)	mg/Nm ³	BDL	EPA	0.05
13	Lead (Pb)	mg/Nm ³	BDL	EPA	0.5
14	Chromium (Cr)	mg/Nm ³	BDL	EPA	
15	Copper (Cu)	mg/Nm ³	BDL	EPA	
16	Nickel (Ni)	mg/Nm ³	BDL	EPA	
17	Zinc (Zn)	mg/Nm ³	BDL	EPA	
18	Vandium & Its Compound	mg/Nm ³	BDL	EPA	
19	Antimony	mg/Nm ³	BDL	EPA	
20	Arsenic	mg/Nm ³	BDL	EPA	
21	Manganese	mg/Nm ³	BDL	EPA	

Cont...

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Service Tax. No. AAFCA3766KST001. PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160523008	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Stack Monitoring		
Sample Collection Date	23/05/2016	Sample Receipt Date	23/05/2016
Analysis Start Date	24/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Instrument	VSS1	Calibration Due Date	26/02/2017
Sampling Location	Old Incinerator Plant		
Stack Height (m)	45	Stack Diameter (m)	1.77
Flue Gas Temperature (°C)	79	Exit Gas Velocity (m/sec)	4.5
Fuel used	Natural Gas		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
22	Combustion Efficiency	%	97.5	EPA (Electrochemical Sensor)	--
23	Carbon Dioxide	%	7.3	EPA (Electrochemical Sensor)	--
REMARKS:					

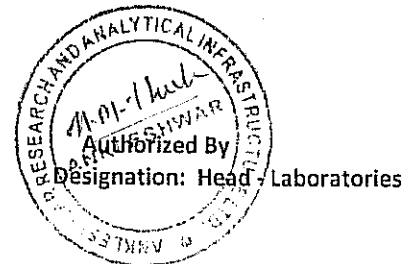
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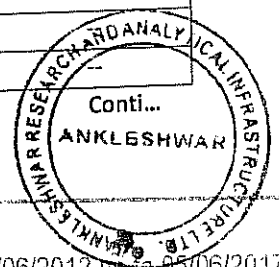
TEST REPORT

Report No.	ARAIL/E/160516057	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB-1		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1.	Colour	Hazen	1.998	APHA 2120 B	--
2	pH	--	7.22	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	18270	APHA 2510 B	--
4	Turbidity	NTU	1.25	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	6.5	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	11870	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	3.55	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	65	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	3680	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	352	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.33	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	3565	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	198.45	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	8.45	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.6159	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	BDL	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.011	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.002	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516057	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB-1		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	0.022	APHA 3500 NI	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.02	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.049	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

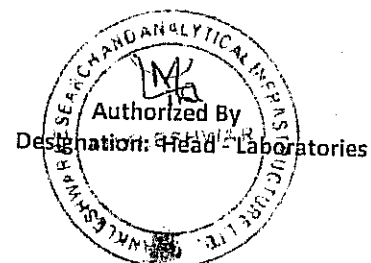
BDL: Below Detection Limit

Result related to the sample tested.

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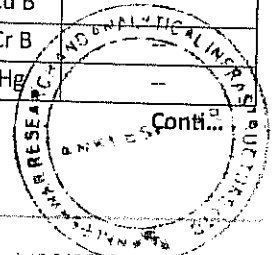
TEST REPORT

Report No.	ARAIL/E/160516049	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 2		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	4.25	APHA 2120 B	--
2	pH	--	7.35	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	2830	APHA 2510 B	--
4	Turbidity	NTU	2.15	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	3.8	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	1802	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	5.68	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	19	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	702	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	302	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.3	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	600	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	249.18	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	2.38	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.8009	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0016	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.025	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.013	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516049	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 2		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.017	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	<0.05	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

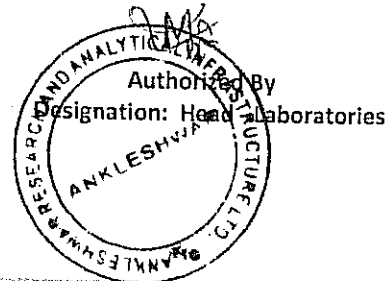
BDL: Below Detection Limit

Result related to the sample tested.

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PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516050	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

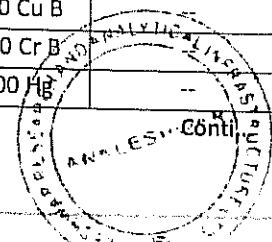
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 4		
Any other information	--		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	1.02	APHA 2120 B	--
2	pH	--	7.17	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	3400	APHA 2510 B	--
4	Turbidity	NTU	1.86	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	6.4	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	2190	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	4.08	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	19	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	680	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	256	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.48	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	841	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	298.88	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	2.76	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.8415	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0014	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.028	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.016	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



Recognitions, approvals and certifications :

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TEST REPORT

Report No.	ARAIL/E/160516050	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 4		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.019	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	<0.05	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

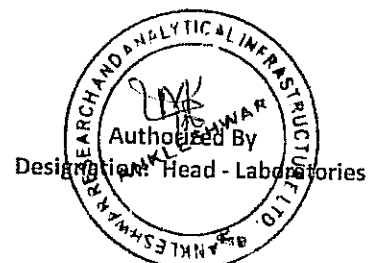
BDL: Below Detection Limit

Result related to the sample tested.

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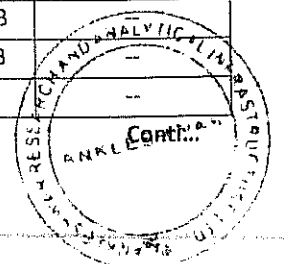
TEST REPORT

Report No.	ARAIL/E/160516051	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB- 5		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	3.48	APHA 2120 B	--
2	pH	--	7.2	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	6150	APHA 2510 B	--
4	Turbidity	NTU	2.42	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	5.6	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	3950	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	8.41	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	28	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	968	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	270	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	1.99	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	1133	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	323.38	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	5.18	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.715	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0013	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.031	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.15	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516051	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 5		
Any other information	-		

TEST RESULTS


Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.03	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.053	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

BDL: Below Detection Limit

Result related to the sample tested.

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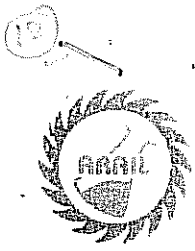

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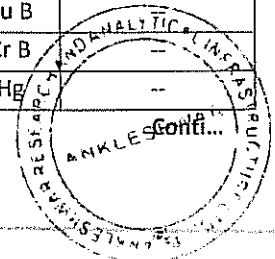
TEST REPORT

Report No.	ARAIL/E/160516052	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB- 6		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	1.29	APHA 2120 B	--
2	pH	--	7.65	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	4340	APHA 2510 B	--
4	Turbidity	NTU	1.38	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	4.8	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	2742	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	8.07	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	24	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	554	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	248	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.27	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	1096	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	254.85	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	5.32	APHA 4500 NO ₃ B	--
15	Fluoride (as F)	mg/lit.	0.7786	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0015	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.039	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.023	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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Service Tax. No. AAFCA3766KST001.

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516052	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB- 6		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.027	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	<0.05	APHA 3500 Zn B	--
27	Pesticides				
	Organo Chlorine	mg/lit.	BDL	--	--
	Organo Nitrogen	mg/lit.	BDL	--	--
	Synthetic Pyrethroid	mg/lit.	BDL	--	--
	Carbamates	mg/lit.	BDL	--	--

REMARK:

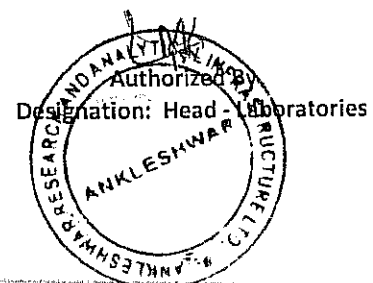
BDL: Below Detection Limit

Result related to the sample tested.

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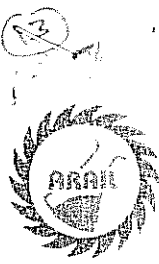
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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516053	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

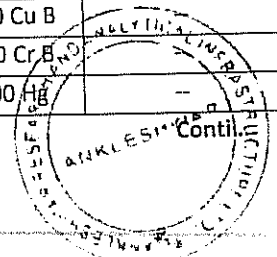
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 7		
Any other information	--		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	0.92	APHA 2120 B	--
2	pH	--	7.54	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	4200	APHA 2510 B	--
4	Turbidity	NTU	1.62	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	4.1	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	2680	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	8.21	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	29	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	560	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	210	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.5	APHA 4500-N _{org} B	--
12	Chlorides (as Cl)	mg/lit.	901	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	339.15	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	10.35	APHA 4500 NO ₃ B	--
15	Fluoride (as F)	mg/lit.	0.7606	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0014	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.033	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.065	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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TEST REPORT

Report No.	ARAIL/E/160516053	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	HB - 7		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.04	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	<0.05	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

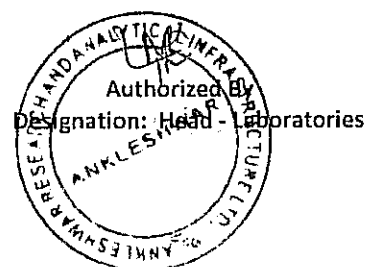
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PAN No : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516042	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB-2		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/Limits
1	Colour	Hazen	0.46	APHA 2120 B	--
2	pH	--	7.41	APHA 4500 H B	--
3	Ele. Conductivity	$\mu\text{mhos/cm}$	2730	APHA 2510 B	--
4	Turbidity	NTU	0.80	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	6.3	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	1750	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	3.76	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	12	APHA 5220 B	--
9	Total Hardness (as CaCO_3)	mg/lit.	480	APHA 2340 C	--
10	Total Alkalinity (as CaCO_3)	mg/lit.	340	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.2	APHA 4500-N _{org} B	--
12	Chlorides (as Cl)	mg/lit.	841	APHA 4500 Cl B	--
13	Sulphate (as SO_4)	mg/lit.	286.4	APHA 4500 SO_4 D	--
14	Nitrate (as NO_3)	mg/lit.	7.30	APHA 4500 NO_3 B	--
15	Fluoride (as F)	mg/lit.	0.717	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0015	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.027	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.007	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--

Conti...

Recognitions, approvals and certifications :

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TEST REPORT

Report No.	ARAIL/E/160516042	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 2		
Any other information	--		

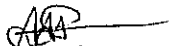
TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.017	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.054	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:


BDL: Below Detection Limit

Result related to the sample tested.

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Ankleshwar Research & Analytical Infrastructure Ltd.

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Service Tax No. AAFCA3766KST001.

PAN No. : AAFCA3766K

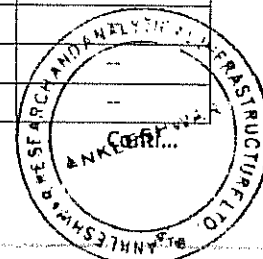
TEST REPORT

Report No.	ARAIL/E/160516043	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 3		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	6.02	APHA 2120 B	--
2	pH	--	7.01	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	5430.0	APHA 2510 B	--
4	Turbidity	NTU	0.91	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	7.9	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	3435	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	10.83	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	27	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	1498	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	289	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	1.6	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	1390	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	292.03	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	3.40	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7372	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0017	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.018	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.005	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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Service Tax. No. AAFCA3766KST001,

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516043	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB-3		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.018	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.05	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

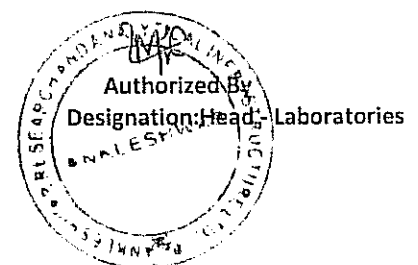
BDL: Below Detection Limit

Result related to the sample tested.

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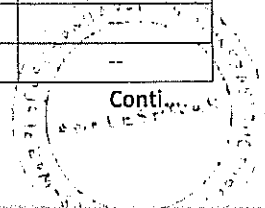
TEST REPORT

Report No.	ARAIL/E/160516044	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 4		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	5.49	APHA 2120 B	--
2	pH	--	7.15	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	12570	APHA 2510 B	--
4	Turbidity	NTU	1.98	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	6.8	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	8125	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	10.52	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	38	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	2920	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	260	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	1.76	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	2805	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	191.43	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	13.42	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7538	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0016	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.019	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.005	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516044	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 4		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.018	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	<0.04	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

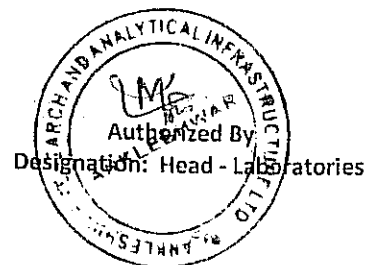
BDL: Below Detection Limit

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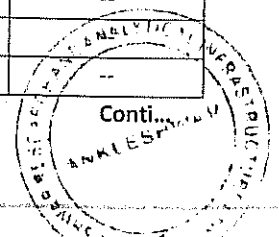
TEST REPORT

Report No.	ARAIL/E/160516045	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 5		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	1.02	APHA 2120 B	--
2	pH	--	7.05	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	6020	APHA 2510 B	--
4	Turbidity	NTU	3.02	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	3.3	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	3718	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	6.06	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	20	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	1680	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	198	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	1.72	APHA 4500-N _{ORG} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	1310	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	211.12	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	7.71	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7798	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0015	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.042	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.005	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516045	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 5		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.032	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.056	APHA 3500 Zn B	--
27	Pesticides				
	Organo Chlorine	mg/lit.	BDL	--	--
	Organo Nitrogen	mg/lit.	BDL	--	--
	Synthetic Pyrethroid	mg/lit.	BDL	--	--
	Carbamates	mg/lit.	BDL	--	--

REMARK:

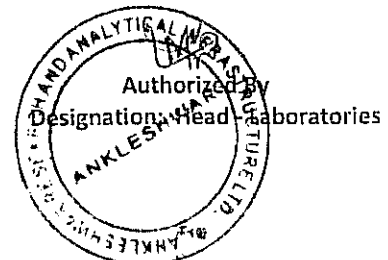
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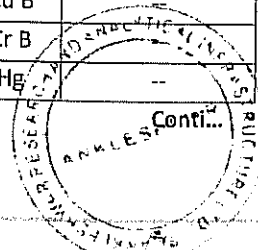
TEST REPORT

Report No.	ARAIL/E/160516046	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB-9		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	2.12	APHA 2120 B	--
2	pH	--	7.07	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	6710	APHA 2510 B	--
4	Turbidity	NTU	0.71	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	3.4	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	4272	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	11.69	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	56	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	1490	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	210	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	0.42	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	1692	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	278.87	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	10.69	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7548	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0014	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.036	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.01	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



Recognitions, approvals and certifications :

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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516046	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 9		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 NI	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.03	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.061	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

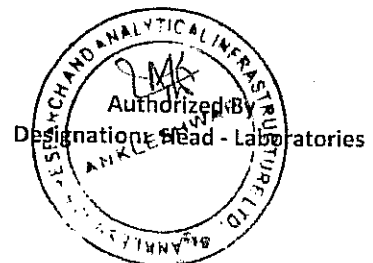
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Service Tax. No. AAFCA3766KST001,

PAN No. : AAFCA3766K

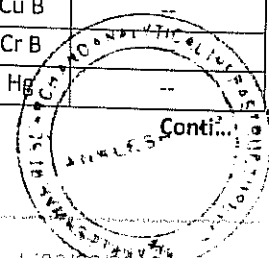
TEST REPORT

Report No.	ARAIL/E/160516047	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB-10		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	4.55	APHA 2120 B	--
2	pH	--	7.11	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	11300	APHA 2510 B	--
4	Turbidity	NTU	1.96	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	5.1	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	7256	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	18.89	APHA 5310 C	--
8.	Chemical Oxygen Demand	mg/lit.	57	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	2820	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	132	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	0.89	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	2174	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	335.84	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	12.79	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7640	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0018	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.034	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.005	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



Recognitions, approvals and certifications :

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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516047	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 10		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.051	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.074	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

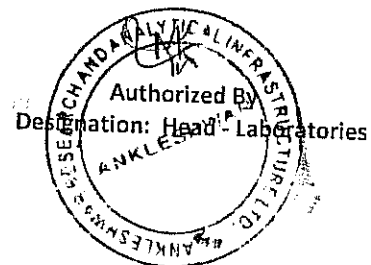
BDL: Below Detection Limit

Result related to the sample tested.

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Service Tax. No. AAFC3766KST001,

PAN No. : AAFC3766K

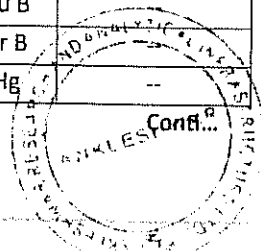
TEST REPORT

Report No.	ARAIL/E/160516048	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 11		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	9.1	APHA 2120 B	--
2	pH	--	7.05	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	10610	APHA 2510 B	--
4	Turbidity	NTU	2.77	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	6.3	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	6740	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	15.08	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	53	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	2298	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	110	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	0.56	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	2481	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	233.78	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	13.40	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7439	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0015	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.027	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.01	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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Service Tax. No. AAFC3766KST001,

PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160516048	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	EB - 11		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.048	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.062	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

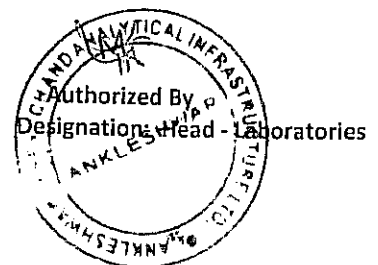
BDL: Below Detection Limit

Result related to the sample tested.

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PAN No : AAFCA3766K

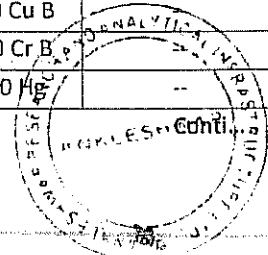
TEST REPORT

Report No.	ARAIL/E/160516054	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2015

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	GIDC Pond		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	0.86	APHA 2120 B	--
2	pH	--	8.24	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	300	APHA 2510 B	--
4	Turbidity	NTU	2.23	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	6.2	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	190	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	BDL	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	BDL	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	120	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	BDL	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	1.54	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	20	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	22.3	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	0.80	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7403	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0018	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.028	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.072	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



Recognitions, approvals and certifications :

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TEST REPORT

Report No.	ARAIL/E/160516054	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	GIDC Pond		
Any other information	---		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.026	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.08	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

BDL: Below Detection Limit

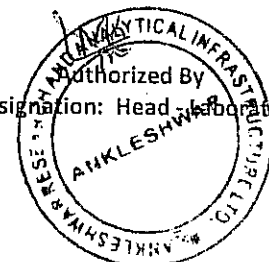
Result related to the sample tested.

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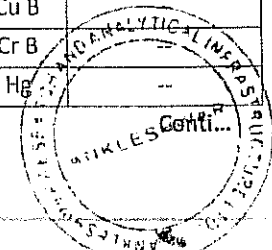
TEST REPORT

Report No.	ARAIL/E/160516055	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	GNFC Pond		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	0.39	APHA 2120 B	--
2	pH	--	8.09	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	250	APHA 2510 B	--
4	Turbidity	NTU	2.49	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	5.9	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	162	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	BDL	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	BDL	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	82	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	BDL	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	1.08	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	22	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	13.41	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	1.12	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7502	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0013	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.035	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.049	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



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TEST REPORT

Report No.	ARAIL/E/160516055	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	GNFC Pond		
Any other information	--		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.03	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.07	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

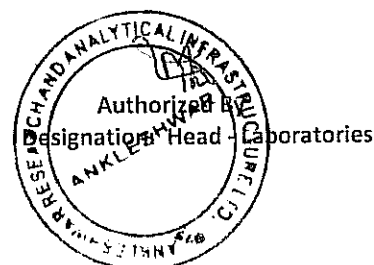
BDL: Below Detection Limit

Result related to the sample tested.

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PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516039	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	Jitali Navinagari		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	1.50	APHA 2120 B	--
2	pH	--	7.63	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	1870	APHA 2510 B	--
4	Turbidity	NTU	0.58	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	5.2	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	1198	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	0.99	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	7.0	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	280	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	238	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.54	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	390.0	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	50.93	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	11.76	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7035	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0015	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.035	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	0.009	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--

Conti...

Recognitions, approvals and certifications :

Recognised by MoEF, Govt of India. EP Act 1986, Environment Notification S.O. 1295 (E). dated (06/06/2012 up to 05/06/2017)

FDA, Govt of Gujarat approved: NABL accredited: NABL registered: OHSAS 18001



Ankleshwar Research & Analytical Infrastructure Ltd.

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E-mail : ankleshwarresearch@gmail.com & ankleshwarresearch@arail.in

Service Tax. No. AAFCA3766KST001,

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516039	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

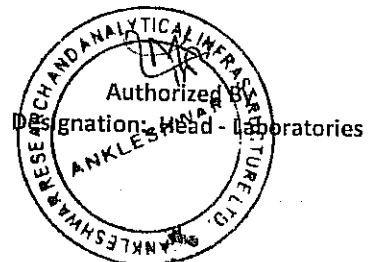
SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	Jitali Navinagari		
Any other information	-		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.036	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	<0.05	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:
BDL: Below Detection Limit
Result related to the sample tested.
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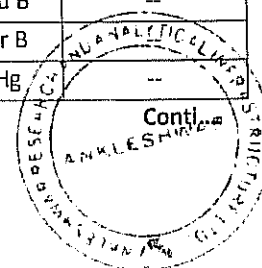
TEST REPORT

Report No.	ARAIL/E/160516040	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	Jitali Gram Panchayat		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	1.56	APHA 2120 B	--
2	pH	--	7.64	APHA 4500 H B	--
3	Ele. Conductivity	μ mhos/cm	1740	APHA 2510 B	--
4	Turbidity	NTU	0.23	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	4.9	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	1117	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	2.69	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	11	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	492	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	152	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.76	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	372	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	61.38	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	12.62	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.7518	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0014	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.041	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.005	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



Recognitions, approvals and certifications :

Recognised by MoEF, Govt of India, EP Act 1986, Environment Notification S.O. 1296 (E), dated (06/06/2012 up to 05/06/2017)
FDA, Govt of Gujarat approved; NABL accredited; DSIR registered; OHSAS-18001 certified Laboratory, GPCR Scheme II Auditor



Ankleshwar Research & Analytical Infrastructure Ltd.

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Service Tax. No. AAFCA3766KST001,

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516040	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16, GIDC, ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	Jitali Gram panchayat		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.035	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.074	APHA 3500 Zn B	--
27	Pesticides			APHA 6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

BDL: Below Detection Limit

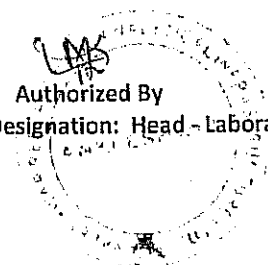
Result related to the sample tested.

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Checked By

Authorized By
Designation: Head - Laboratories



Recognitions, approvals and certifications :

Recognised by MoEF, Govt of India, EP Act 1986. Environment Notification S.O. 1295 (E), dated (06/06/2012 up to 05/06/2017)

FDA Govt of Gujarat and other AAIPL approved from 2016 to 2017.



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Service Tax No. AAFC3766KST001,

PAN No. : AAFC3766K

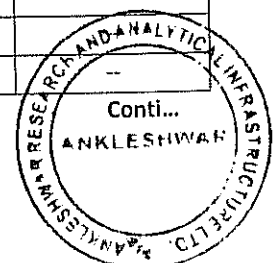
TEST REPORT

Report No.	ARAIL/E/160516041	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	Jitali CM Tank		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	Colour	Hazen	5.10	APHA 2120 B	--
2	pH	--	7.73	APHA 4500 H B	--
3	Ele. Conductivity	µmhos/cm	2700	APHA 2510 B	--
4	Turbidity	NTU	1.97	APHA 2130 A	--
5	Total Suspended Solids	mg/lit.	1.7	APHA 2540 D	--
6	Total Dissolved Solids	mg/lit.	1730	APHA 2540 C	--
7	Total Organic Carbon	mg/lit.	6.90	APHA 5310 C	--
8	Chemical Oxygen Demand	mg/lit.	33.0	APHA 5220 B	--
9	Total Hardness (as CaCO ₃)	mg/lit.	540	APHA 2340 C	--
10	Total Alkalinity (as CaCO ₃)	mg/lit.	226	APHA 2320 B	--
11	Total Kjeldahl Nitrogen	mg/lit.	2.49	APHA 4500-N _{org} B	--
12	Chlorides (as Cl ⁻)	mg/lit.	521	APHA 4500 Cl B	--
13	Sulphate (as SO ₄)	mg/lit.	303.25	APHA 4500 SO ₄ D	--
14	Nitrate (as NO ₃)	mg/lit.	11.06	APHA 4500 NO ₃ B	--
15	Fluoride (as F ⁻)	mg/lit.	0.761	APHA 4500 F D	--
16	Lead (as Pb)	mg/lit.	<0.005	APHA3500 Pb B	--
17	Cadmium (as Cd)	mg/lit.	0.0013	APHA 3500 Cd	--
18	Copper (as Cu)	mg/lit.	0.025	APHA 3500 Cu B	--
19	Total Chromium (as Cr)	mg/lit.	<0.005	APHA 3500 Cr B	--
20	Mercury (as Hg)	mg/lit.	<0.00025	APHA 3500 Hg	--



Recognitions, approvals and certifications :

Recognised by MoEF, Govt of India, EP Act 1986, Environment Notification S.O. 1295 (E) dated (06/06/2012 up to 05/06/2017)
FDA, Govt of Gujarat approved; NABL accredited; DSIR registered, OHSAS-18001 certified Laboratory, GPCB Schedule-I Auditor



Ankleshwar Research & Analytical Infrastructure Ltd.

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Service Tax. No. AAFCA3766KST001

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160516041	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Ground Water		
Sample Collection Date	16/05/2016	Sample Receipt Date	16/05/2016
Analysis Start Date	17/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	5 L	Packing	Plastic Carboy
Sampling Location	Jitali CM Tank		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
21	Nickel (as Ni)	mg/lit.	BDL	APHA 3500 Ni	--
22	Cyanide (as CN)	mg/lit.	BDL	APHA 3500 CN D	--
23	Arsenic (as As)	mg/lit.	<0.00025	APHA 3500 As B	--
24	Manganese (as Mn)	mg/lit.	0.047	APHA 3500 Mn B	--
25	Iron (as Fe)	mg/lit.	<0.03	APHA 3500 Fe B	--
26	Zinc (as Zn)	mg/lit.	0.082	APHA 3500 Zn B	--
27	Pesticides			APHA6630	
	Organo Chlorine	mg/lit.	BDL		--
	Organo Nitrogen	mg/lit.	BDL		--
	Synthetic Pyrethroid	mg/lit.	BDL		--
	Carbamates	mg/lit.	BDL		--

REMARK:

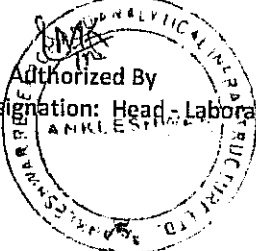
BDL: Below Detection Limit

Result related to the sample tested.

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Analysed By


Checked By


Authorized By
Designation: Head, Laboratories

Recognitions, approvals and certifications :

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FDA, Govt of Gujarat approved; NABL accredited; DSIR registered; OHSAS-18001 certified Laboratory (GDCB Sector)

ISSUED TO:
BHARUCH ENVIRO INFRASTRUCTURE LIMITED
PLOT NO. : 9701-16
GIDC, ANKALESHWAR,
GUJARAT- 393002
INDIA

Report Number 00176/16/VLL/000/01
Issue Date : 2016-06-11
Your Ref W.O NO: 8516170064
and Date 2016-05-10

KIND.ATTN: Mr. Dr. Hitendra Jani

Sample SOURCE EMISSION MONITORING FOR INCINERATOR

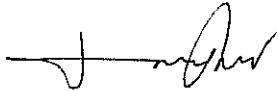
Page 1 of 1

Sample Registration 2016-05-31 Sampling Date: 2016-05-27 & 28
Analysis starting 2016-05-31 Analysis Completion 2016-06-15
Samples collected at Stack Attached to Incinerator; Coded as I-1 (Old Plant); I-2 (New Plant);
Tests required: Particulate Matter, SO₂, NO_x, CO, CO₂, O₂ and Total Organic Carbon (TOC);
SAMPLE COLLECTED BY VIMTA LABS LTD LAB REF.: EC

TEST RESULTS

Sl. No.	PARAMETERS	UOM	I-1 (2016-05-28 & 10.00hrs.)	I-2 (2016-05-27 & 11.00hrs.)
EMISSION RATES				
1	Diameter of stack	m	1.77	1.84
2	Duct Area	m ²	2.45	2.66
3	Flue gas temperature	°C	71	71
4	Velocity	m/sec	5.6	5.7
5	Volumetric flow rate	Nm ³ /Sec	11.73	12.93
6	Particulate Matter	mg/ Nm ³	7.3	6.4
7	Oxygen	%	12.3	12.6
8	Sulfur Dioxide	mg/ Nm ³	<3.4	<3.4
9	Oxides of Nitrogen	mg/ Nm ³	32.5	30.4
10	Carbon Monoxide	mg/ Nm ³	25.2	23.8
11	Carbon Dioxide	%	7.8	7.6
12	Total Organic Carbon	mg/ Nm ³	6.2	5.3

Method of Testing for Total Organic Carbon USEPA Method 40 & MM 5 (10)
Remarks: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005-06
Minimum Detection Limit for TOC - 0.1mg/Nm³


Dr. Subbareddy Mallampati
Group Leader - Environment

Vimta Labs Limited

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ISSUED TO:

BHARUCH ENVIRO INFRASTRUCTURELIMITED
PLOT NO. : 9701-16
GIDC, ANKALESHWAR,
GUJARAT- 393002
INDIA

Report Number 00176/15/VLL/000/02

Issue Date : 2016-06-

Your Ref W.O NO: 8516170064

KIND.ATTN: Mr. Dr. Hitendra Jani

and Date 2016-05-10

Sample SOURCE MONITORING SAMPLE

Page 1 of 1

Sample Registration 2016-05-31 Sampling Date: 2016-05-27 & 28
Analysis starting 2016-05-31 Analysis Completion 2016-06-15
Quantity received: 1No Dragger tube, 1No. Filter paper; and 2 No. 500ml Glass containers;
Samples collected at Stack Attached to Incinerator; Coded as I-1 (Old Plant); I-2 (New Plant)
Tests required: PCDD and PCDF;
SAMPLE COLLECTED BY VIMTA LABS LTD LAB REF.: EC

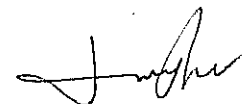
TEST RESULTS

Sl. No.	PARAMETERS	UOM	I-1 (2016-05-28 & 10.00hrs.)	I-2 (2016-05-27 & 11.00hrs.)
EMISSION RATES				
1	Diameter of stack	m	1.77	1.84
2	Flue gas temperature	°C	71	71
3	Velocity	m/sec	6.3	5.9
4	Volumetric flow rate	Nm ³ /Sec	13.20	13.47
DIOXIN AND FURANS				
1	2,3,7,8-TCDF	ng/Nm ³ , TEQ	0.0006	0.0004
2	1,2,3,7,8-PeCDF	ng/Nm ³ , TEQ	0.0008	0.0005
3	2,3,4,7,8-PeCDF	ng/Nm ³ , TEQ	0.0000	0.0003
4	1,2,3,4,7,8-HxCDF	ng/Nm ³ , TEQ	0.0002	0.0001
5	1,2,3,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0006	0.0006
6	2,3,4,6,7,8-HxCDF	ng/Nm ³ , TEQ	0.0008	0.0009
7	1,2,3,7,8,9-HxCDF	ng/Nm ³ , TEQ	0.0003	0.0010
8	1,2,3,4,6,7,8-HpCDF	ng/Nm ³ , TEQ	0.0000	0.0000
9	1,2,3,4,7,8,9-HpCDF	ng/Nm ³ , TEQ	0.0007	0.0006
10	OCDF	ng/Nm ³ , TEQ	0.0005	0.0009
11	2,3,7,8-TCDD	ng/Nm ³ , TEQ	0.0001	0.0001
12	1,2,3,7,8-PeCDD	ng/Nm ³ , TEQ	0.0009	0.0000
13	1,2,3,4,7,8-HxCDD	ng/Nm ³ , TEQ	0.0014	0.0015
14	1,2,3,6,7,8-HxCDD	ng/Nm ³ , TEQ	0.0010	0.0009
15	1,2,3,7,8,9-HxCDD	ng/Nm ³ , TEQ	0.0011	0.0006
16	1,2,3,4,6,7,8-HpCDD	ng/Nm ³ , TEQ	0.0002	0.0000
17	OCDD	ng/Nm ³ , TEQ	0.0000	0.0000
Total Dioxins & Furans		ng/Nm³, TEQ	0.0081	0.0073
Total Dioxins & Furans		ng/Nm³, TEQ Corrected to 11% O₂ Concentration	0.0093	0.0087

Method of Testing: As per USEPA 23 A & 8290

Remarks: All the values are corrected to 11% O₂ as per CPCB Guidelines HAZWAMS/30/2005-06


Instruments used: Auto spec (HRGC/HRMS). Detection Limit: 0.01pg




Dr. Subbareddy Mallampati
Group Leader - Environment

Sample Location	Parameter	pH	COD (gm/ltr)	CHLOR IDE (gm/ltr)	SULPHATE (gm/ltr)	TDS (gm/ltr)	TSS (mg/ltr)
LW-1	Average	6.76	10.44	70.26	18.07	171.50	1034
	Maximum	7.06	11.03	71.71	30.59	219.1	1127
	Minimum	6.40	9.48	68.75	13.26	144.9	843
LW-2	Average	7.39	11.67	108.73	50.73	255.15	1164
	Maximum	7.77	12.75	111.03	62.70	261.2	1327
	Minimum	7.13	10.52	106.24	24.96	246.53	1025
LW-3	Average	7.22	18.68	66.62	48.47	183.73	974
	Maximum	7.39	22.99	69.97	59.26	190.2	1018
	Minimum	7.07	11.57	63.41	38.32	179.8	913
LW-4	Average	7.40	11.14	55.83	23.03	119.35	930
	Maximum	7.6	12.85	60.68	37.94	124.88	1014
	Minimum	6.94	10.3	51.93	15.77	114.3	830
LW-5	Average	7.30	13.98	63.66	21.22	129.36	1006
	Maximum	7.70	16.78	76.80	34.09	131.80	1225
	Minimum	6.97	11.95	57.75	13.75	127.44	820
LW-6	Average	7.32	14.88	66.57	22.05	135.54	1183
	Maximum	7.71	15.66	76.54	31.18	143.48	1297
	Minimum	7.08	14.07	60.88	16.74	132.00	1008
C1LW1	Average	7.09	22.27	106.98	30.14	199.07	1154
	Maximum	7.6	26.72	164.52	43.34	264.9	1407
	Minimum	6.83	19.48	63.80	21.18	141.8	992
C2LW2	Average	7.27	30.73	107.05	51.04	236.54	1122
	Maximum	7.46	36.89	122.67	83.24	245.7	1213
	Minimum	6.94	24.70	99.10	37.27	231.4	935
C5LW3	Average	7.62	43.00	172.06	32.20	337.23	1197
	Maximum	8.05	47.53	234.55	64.72	358.5	1478
	Minimum	7.16	38.35	155.75	15.00	328.0	943
C6LW4	Average	8.00	41.98	138.95	44.42	319.64	1208
	Maximum	8.13	43.52	140.89	58.07	327.8	1415
	Minimum	7.77	39.557	136.63	32.27	314.7	944
C7LW5	Average	7.84	34.46	133.23	46.33	301.33	1177
	Maximum	7.93	38.35	141.28	86.17	314.1	1327
	Minimum	7.72	29.12	126.73	29.75	294.2	959
C13LW6	Average	8.06	41.43	153.51	40.29	344.27	1303
	Maximum	8.41	46.47	159.33	58.06	392.6	1457
	Minimum	7.71	37.15	146.13	28.34	324.5	1110
C11LW7	Average	8.08	44.23	143.80	35.80	319.19	1152
	Maximum	8.22	49.98	151.67	62.17	348.5	1357
	Minimum	7.85	35.95	112.78	23.71	257.4	941

For BHARUCH ENVIRO INFRASTRUCTURE LTD.



D. T. Meghpara
(Exe -QA)




Dr. H.J. Jani
(Manager - QA)


Phase-I Monitoring of Gas Vent Provided in SLF							
Sr. No	Location	VOC			H2S		
		Result in ppb			Result in ppm		
		12-Apr-16	13-May-15	18-Jun-16	12-Apr-16	13-May-15	18-Jun-16
1	VENT-1	BDL	BDL	BDL	BDL	BDL	BDL
2	VENT-2	BDL	BDL	BDL	BDL	BDL	BDL
3	VENT-3	BDL	BDL	BDL	BDL	BDL	BDL
4	VENT-4	BDL	BDL	BDL	BDL	BDL	BDL
5	VENT-5	BDL	BDL	BDL	BDL	BDL	BDL
6	VENT-6	BDL	BDL	BDL	BDL	BDL	BDL
7	VENT-7	BDL	BDL	BDL	BDL	BDL	BDL
8	VENT-8	1	BDL	BDL	BDL	1	BDL
9	VENT-9	BDL	BDL	BDL	BDL	BDL	BDL
10	VENT-10	BDL	BDL	BDL	BDL	BDL	BDL
11	VENT-11	BDL	BDL	BDL	BDL	BDL	BDL
12	VENT-12	BDL	BDL	BDL	BDL	BDL	BDL
13	VENT-13	BDL	BDL	BDL	BDL	BDL	BDL
14	VENT-14	BDL	BDL	BDL	BDL	BDL	BDL
15	VENT-15	BDL	BDL	1	BDL	BDL	BDL
16	VENT-16	BDL	BDL	BDL	1	BDL	BDL
17	VENT-17	BDL	BDL	BDL	BDL	BDL	BDL
18	VENT-18	BDL	BDL	BDL	BDL	BDL	BDL
19	VENT-19	BDL	1	BDL	BDL	BDL	BDL
20	VENT-20	BDL	BDL	BDL	BDL	BDL	BDL
21	VENT-21	BDL	BDL	BDL	BDL	1	BDL
22	VENT-22	BDL	BDL	BDL	BDL	BDL	BDL
23	VENT-23	BDL	BDL	BDL	BDL	BDL	BDL
24	VENT-24	BDL	BDL	BDL	BDL	BDL	BDL
25	VENT-25	BDL	BDL	BDL	BDL	BDL	BDL

Phase-II Monitoring of Gas Vent Provided in SLF							
Sr. No	Location	VOC			H2S		
		Result in ppb			Result in ppm		
		12-Apr-16	13-May-15	18-Jun-16	12-Apr-16	13-May-15	18-Jun-16
1	VENT-1	BDL	BDL	BDL	BDL	BDL	BDL
2	VENT-2	BDL	BDL	BDL	BDL	BDL	BDL
3	VENT-3	BDL	BDL	BDL	BDL	BDL	BDL
4	VENT-4	BDL	BDL	BDL	BDL	BDL	BDL
5	VENT-5	BDL	BDL	BDL	BDL	BDL	BDL
6	VENT-6	BDL	BDL	BDL	BDL	BDL	BDL
7	VENT-7	BDL	BDL	BDL	BDL	BDL	BDL
8	VENT-8	1	BDL	BDL	BDL	BDL	BDL
9	VENT-9	BDL	BDL	BDL	BDL	BDL	BDL
10	VENT-10	BDL	BDL	BDL	1	BDL	BDL
11	VENT-11	BDL	BDL	BDL	BDL	BDL	BDL
12	VENT-12	BDL	BDL	BDL	BDL	BDL	BDL
13	VENT-13	BDL	BDL	BDL	BDL	BDL	BDL
14	VENT-14	BDL	BDL	BDL	BDL	BDL	BDL
15	VENT-15	BDL	BDL	BDL	BDL	BDL	BDL
16	VENT-16	BDL	BDL	BDL	BDL	BDL	BDL
17	VENT-17	BDL	BDL	BDL	BDL	BDL	BDL
18	VENT-18	BDL	BDL	BDL	BDL	BDL	BDL
19	VENT-19	BDL	1	BDL	BDL	BDL	BDL
20	VENT-20	BDL	BDL	BDL	BDL	BDL	BDL
21	VENT-21	BDL	BDL	BDL	BDL	BDL	BDL
22	VENT-22	BDL	BDL	BDL	BDL	1	BDL
23	VENT-23	BDL	BDL	BDL	BDL	BDL	BDL
24	VENT-24	BDL	BDL	BDL	BDL	BDL	BDL
25	VENT-25	BDL	BDL	BDL	BDL	BDL	BDL
26	VENT-26	BDL	BDL	BDL	BDL	BDL	BDL
27	VENT-27	BDL	BDL	BDL	BDL	BDL	BDL
28	VENT-28	BDL	BDL	BDL	BDL	BDL	BDL
29	VENT-29	BDL	BDL	BDL	BDL	BDL	BDL
30	VENT-29	BDL	BDL	BDL	BDL	BDL	BDL
31	VENT-29	BDL	BDL	1	BDL	BDL	BDL
32	VENT-29	BDL	BDL	BDL	BDL	BDL	BDL
33	VENT-29	BDL	BDL	BDL	1	BDL	BDL
34	VENT-29	1	BDL	BDL	BDL	BDL	BDL
35	VENT-29	BDL	BDL	BDL	BDL	BDL	BDL
36	VENT-29	BDL	BDL	BDL	BDL	BDL	1

MDL = 1 ppb for VOC and 0.5 ppm for H2S

For BHARUCH ENVIRO INFRASTRUCTURE LTD.


D.T. Meghpara
(Exe.-Q.A.)


Dr. H.J. Jani
(Manager - QA)



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Service Tax. No. AAFC3766KST001.

PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160521004	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Opp. Deep Enter Prise		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10 %)	-	8.38	APHA	--
2	Conductivity (10 %)	µmhos/cm	5.49	APHA	--
3	TDS	mg/Kg	3512	APHA	--
4	TOC	% W/W	1.587	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	775	APHA	--
8	Fluoride	%(W/W)	0.056	APHA	--
9	Zinc	mg/Kg	20.27	APHA	--
10	Lead	mg/Kg	1.085	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	30.88	APHA	--
13	Total Chromium	mg/Kg	36.14	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	36.83	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

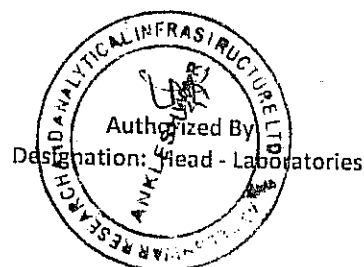
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Service Tax. No. AAFCA3766KST001.

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160521005	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near EB 2		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10 %)	-	8.35	APHA	--
2	Conductivity (10 %)	µmhos/cm	5.31	APHA	--
3	TDS	mg/Kg	3398	APHA	--
4	TOC	%(W/W)	1.045	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	455	APHA	--
8	Fluoride	%(W/W)	0.032	APHA	--
9	Zinc	mg/Kg	29.26	APHA	--
10	Lead	mg/Kg	BDL	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	35.22	APHA	--
13	Total Chromium	mg/Kg	39.42	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	34.21	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

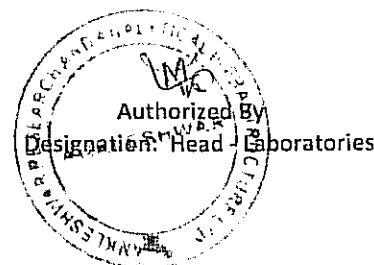
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TEST REPORT

Report No.	ARAIL/E/160521006	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near EB 3		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)	-	8.4	APHA	--
2	Conductivity (10%)	µmhos/cm	5.09	APHA	--
3	TDS	mg/Kg	3261	APHA	--
4	TOC	% W/W	1.698	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	701	APHA	--
8	Fluoride	%(W/W)	0.013	APHA	--
9	Zinc	mg/Kg	27.32	APHA	--
10	Lead	mg/Kg	2.348	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	25.99	APHA	--
13	Total Chromium	mg/Kg	36.18	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	38.46	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

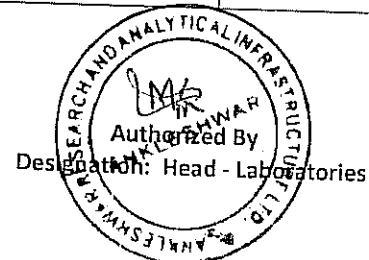
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Checked By *ASH*



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TEST REPORT

Report No.	ARAIL/E/160521007	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near Shed No 2		
Any other information	---		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		8.96	APHA	--
2	Conductivity (10%)	µmhos/cm	7.84	APHA	--
3	TDS	mg/Kg	5015	APHA	--
4	TOC	% W/W	2.004	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	722	APHA	--
8	Fluoride	%(W/W)	0.05	APHA	--
9	Zinc	mg/Kg	28.49	APHA	--
10	Lead	mg/Kg	2.78	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	25.78	APHA	--
13	Total Chromium	mg/Kg	42.69	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	45.5	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

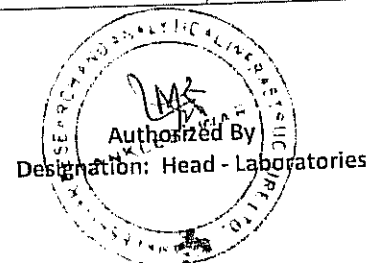
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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160521008	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

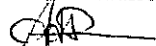
SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near Jitali Solvent Road		
Any other information	---		

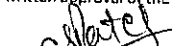
TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		8.59	APHA	--
2	Conductivity (10%)	µmhos/cm	6.88	APHA	--
3	TDS	mg/Kg	4402	APHA	--
4	TOC	% W/W	0.998	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	826	APHA	--
8	Fluoride	%(W/W)	0.024	APHA	--
9	Zinc	mg/Kg	23.12	APHA	--
10	Lead	mg/Kg	4.3	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	39.46	APHA	--
13	Total Chromium	mg/Kg	49.31	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	46.84	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

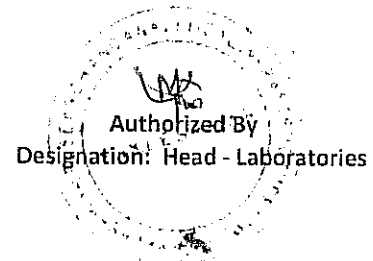
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Result related to the sample tested.

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PAN No. : AAFC3766K

TEST REPORT

Report No.	ARAIL/E/160521009	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near Project Room		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		8.39	APHA	--
2	Conductivity (10%)	µmhos/cm	4.48	APHA	--
3	TDS	mg/Kg	2869	APHA	--
4	TOC	% W/W	1.235	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	732	APHA	--
8	Fluoride	%(W/W)	0.042	APHA	--
9	Zinc	mg/Kg	33.11	APHA	--
10	Lead	mg/Kg	3.38	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	33.2	APHA	--
13	Total Chromium	mg/Kg	51.22	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	NiCkel	mg/Kg	50.19	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

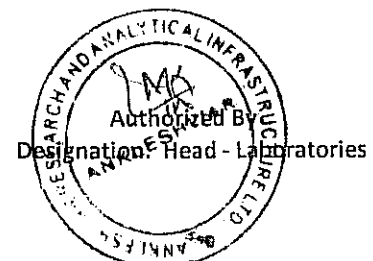
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Service Tax. No. AAFC A3766KST001

PAN No : AAFC A3766K

TEST REPORT

Report No.	ARAIL/E/160521010	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near HB 1		
Any other information	--		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		7.56	APHA	--
2	Conductivity (10%)	µmhos/cm	5.295	APHA	--
3	TDS	mg/Kg	3389	APHA	--
4	TOC	% W/W	0.689	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	800	APHA	--
8	Fluoride	%(W/W)	0.013	APHA	--
9	Zinc	mg/Kg	23.3	APHA	--
10	Lead	mg/Kg	0.382	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	35.4	APHA	--
13	Total Chromium	mg/Kg	62.97	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	53	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

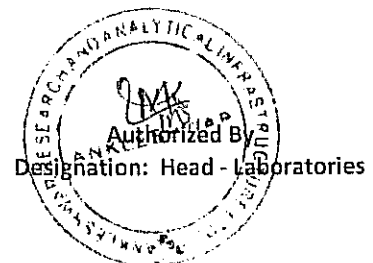
BDL: Below Detection Limit

Result related to the sample tested.

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Ankleshwar Research & Analytical Infrastructure Ltd.

Plot No 1501, GIDC Industrial Estate, Ankleshwar - 393 002. (GUJARAT)

Ph. : 02646 - 238297, 220439

Web : www.arail.in

E-mail : ankleshwarresearch@gmail.com & ankleshwarresearch@arail.in

Service Tax. No. AAFCA3766KST001.

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160521011	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near Stabilization		
Any other information	-		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		7.82	APHA	--
2	Conductivity (10%)	µmhos/cm	4.751	APHA	--
3	TDS	mg/Kg	3042	APHA	--
4	TOC	% W/W	1.741	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	820	APHA	--
8	Fluoride	%(W/W)	0.014	APHA	--
9	Zinc	mg/Kg	24.32	APHA	--
10	Lead	mg/Kg	5.365	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	29.5	APHA	--
13	Total Chromium	mg/Kg	53.84	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	49.18	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

BDL: Below Detection Limit

Result related to the sample tested.

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Service Tax No. AAFCA3766KST001.

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160521012	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016


SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near Drum Cutter Area		
Any other information	---		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		8.49	APHA	--
2	Conductivity (10%)	µmhos/cm	7.243	APHA	--
3	TDS	mg/Kg	4636	APHA	--
4	TOC	% W/W	1.478	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	617	APHA	--
8	Fluoride	%(W/W)	0.035	APHA	--
9	Zinc	mg/Kg	20.06	APHA	--
10	Lead	mg/Kg	3.439	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	31.6	APHA	--
13	Total Chromium	mg/Kg	51.38	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	43.92	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

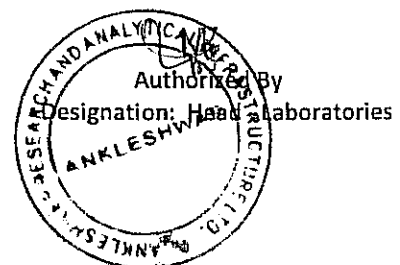
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PAN No. : AAFCOA3766K

TEST REPORT

Report No.	ARAIL/E/160521013	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS

Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS

Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near Industrial Solvent Road		
Any other information	--		

TEST RESULTS

Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/Limits
1	pH (10%)	-	8.4	APHA	--
2	Conductivity (10%)	µmhos/cm	4.341	APHA	--
3	TDS	mg/Kg	2780	APHA	--
4	TOC	% W/W	0.958	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	836	APHA	--
8	Fluoride	%(W/W)	0.038	APHA	--
9	Zinc	mg/Kg	27.22	APHA	--
10	Lead	mg/Kg	9.34	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	26.3	APHA	--
13	Total Chromium	mg/Kg	53.37	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	52.68	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

BDL: Below Detection Limit

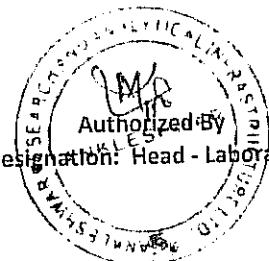
Result related to the sample tested.

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Designation: Head - Laboratories



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ISO 9001:2008 certified Laboratory, GPCB Schedule-I Auditor



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Service Tax. No. AAFCA3766KST001,

PAN No. : AAFCA3766K

TEST REPORT

Report No.	ARAIL/E/160521014	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near HB 7		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		8.64	APHA	--
2	Conductivity (10%)	µmhos/cm	3.735	APHA	--
3	TDS	mg/Kg	2390	APHA	--
4	TOC	% W/W	1.159	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	1033	APHA	--
8	Fluoride	%(W/W)	0.039	APHA	--
9	Zinc	mg/Kg	34.94	APHA	--
10	Lead	mg/Kg	4.88	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	23.94	APHA	--
13	Total Chromium	mg/Kg	53.58	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	55.8	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

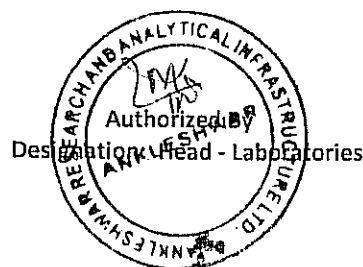
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TEST REPORT

Report No.	ARAIL/E/160521015	Date of Report	30/05/2016
Customer Name & Address	BHARUCH ENVIRO INFRASTRUCTURE LTD. PLOT NO-9701-16,GIDC,ANKLESHWAR-393002		
Customer Ref. No. & Date	ARAIL/MKTG/16-17/001 on dated 26/04/2016		

SAMPLE PARTICULARS			
Sample Description	Soil Sample		
Sample Collection Date	20/05/2016	Sample Receipt Date	21/05/2016
Analysis Start Date	21/05/2016	Analysis Completion Date	28/05/2016

SAMPLING DETAILS			
Sample Collection	Collected by us		
Sampling Quantity	1 Kg	Packing	Sealed Bag
Sampling Location	Near out Side Incineration Plant		
Any other information	--		

TEST RESULTS					
Sr. No.	Test Parameters	Unit	Results	Test Method	Specification/ Limits
1	pH (10%)		8.28	APHA	--
2	Conductivity (10%)	µmhos/cm	6.02	APHA	--
3	TDS	mg/Kg	3855	APHA	--
4	TOC	% W/W	1.139	APHA	--
5	Cynide	mg/kg	BDL	APHA	--
6	Arsenic	mg/kg	BDL	APHA	--
7	Manganese	mg/kg	638	APHA	--
8	Fluoride	%(W/W)	0.054	APHA	--
9	Zinc	mg/Kg	20.15	APHA	--
10	Lead	mg/Kg	3.066	APHA	--
11	Cadmium	mg/Kg	BDL	APHA	--
12	Copper	mg/Kg	22.82	APHA	--
13	Total Chromium	mg/Kg	46.36	APHA	--
14	Mercury	mg/Kg	BDL	APHA	--
15	Nickel	mg/Kg	46.9	APHA	--
16	Poly Aromatic Hydrocarbon	mg/Kg	BDL	APHA	--

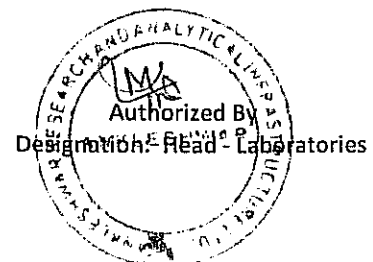
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Result related to the sample tested.

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Name Of Customer:	BAJAJ HEALTHCARE LTD. UNIT-IV		
Address Of Customer:	PLOT NO 1717/1718, GIDC ESTATE PANOLI TAL. ANKLESHWAR DIST BHARUCH GUJARAT - 394116		
Sample Description:	RESIDUE SAMPLE	Sample Id	593617016
Sample Quantity:	1.01g	Sample Received Date:	06-Jun-16
Sampling Location:		Sampling Procedure:	
Sample Collected By	Self		

Sr No	Parameters	Unit	Result	Method Ref
1	PHYSICAL STATE	-	SOLID	
2	SAMPLE APPEARANCE	-	Off White	
3	*PH (10% SOLN)	-	4.50	APHA 4500H+P
4	*CALORIFIC VALUE	Cal/gm	4810	IS:1448(PART-4):1984
5	CARBON	%		
6	HYDROGEN	%		
7	NITROGEN	%		
8	TOTAL SULPHUR	%		
9	TOTAL HALOGENS	%		
10	CYANIDE	ppm	0.70	APHA 4500
11	*LOD AT 110°C	%	12.08	STD. METHODS OF CHEMICAL ANALYSIS BY N H SURMAN
12	ANNEALING LOSS AT 550°C	%	85.77	STD. METHODS OF CHEMICAL ANALYSIS BY N H SURMAN
13	*ASH CONTENT AT 800°C	%	2.05	IS 1448 (PART-4) : 1984
14	COMPATIBILITY TEST	-	Ok	
15	FLAMMABILITY TEST	-	Flammable	QUALITATIVE ORGANIC ANALYSIS
16	REACTIVITY AIR / WATER	-	No reactivity	ASTM D-5058-90
17	REACTIVITY WITH LIME	-	No reactivity	ASTM D-5058-90
18	REACTIVITY WITH TRIETHYL AMINE	-	No reactivity	ASTM D-5058-90
19	*FLUORIDE	mg/Ltr.	0.405	APHA 4500-F-C
20	AMMONIACAL NITROGEN	mg/Ltr.	5242	APHA 4500 III B-C

* Parameters are in NABL scope

Barcode Id e6d/5b4cc5


Page 2 of 2


Remarks: Sample is suitable for incineration.

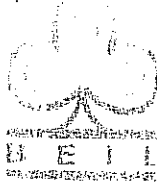
----- END OF REPORT -----

For Bharuch Enviro Infrastructure Ltd


CHEMIST


CHECKED BY
Deepak Meghpara
Executive(QA)


AUTHORIZED
Dr Hitendra Jani
Manager(QA)



ANALYSIS REPORT

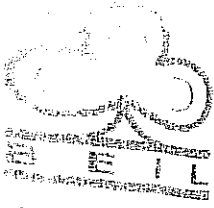
ANALYSIS REPORT

Barcode Id 636d0c1f3c

Page 1 of 2

Name Of Customer:	Borax Morarji Limited		
Address Of Customer:	CH-5/I, GIDC, Chemical Zone, Dahej-392130, Tal. Vagra, Dist : Bharuch		
Sample Description:	Filter Cake (Gypsum)	Sample Id.	5936170161
Sample Quantity:	1 Kg	Sample Received Date:	01-Jun-16
Sampling Location:		Sampling Procedure:	
Sample Collected By	Self		

Sr. No	Parameters	Unit	Result	Method Ref.
1	PHYSICAL STATE	-	Solid	
2	SAMPLE APPEARANCE	-	OFF WHITE	
3	*PH (10% SOLN)	-	8.56	APHA 4500H+B
4	*CALORIFIC VALUE	Cal/gm	758	IS:1448(PART-6):1984
5	TOTAL HALOGENS	%	3.02	APHA 4500CL F
6	TOTAL SULPHUR	%	12.7	APHA 4500S
7	*LOD AT 110°C	%	8.95	STD. METHOD FOR CHEMICAL ANALYSIS N H SURMAN
8	ANNEALING LOSS AT 550°C	%	8.75	STD. METHOD FOR CHEMICAL ANALYSIS N H SURMAN
9	*ASH CONTENT AT 800°C	%	80.87	IS 1448 (PART-4) :1984
10	FLAMMABILITY TEST	-	Not Flammable	QUALITATIVE ORGANIC ANALYSIS
11	COMPATIBILITY TEST	-	OK	
12	PFLT TEST	-	PASS	USEPA METHOD 9095B
13	LRT TEST	ml	0.0	USEPA 9096
14	*PHENOLIC COMPOUNDS (10% SOLN)	mg/Ltr.	BDL	APHA 5530-D
15	*ARSENIC (10% SOLN)	mg/Ltr.	BDL	APHA 3111-AS-B
16	*LEAD (10% SOLN)	mg/Ltr.	BDL	APHA 3111-PB-B
17	CADMIUM (10% SOLN)	mg/Ltr.	BDL	APHA 3111-B
18	*TOTAL CHROMIUM (10% SOLN)	mg/Ltr.	BDL	APHA 3111-CR-B
19	*COPPER (10% SOLN)	mg/Ltr.	0.0611	APHA 3111-CU-B
20	*NICKEL (10% SOLN)	mg/Ltr.	0.0689	APHA 3111-NI-B
21	*MERCURY (10% SOLN)	mg/Ltr.	BDL	APHA 3111-HG-B
22	*ZINC (10% SOLN)	mg/Ltr.	0.0259	APHA 3111-ZN-B
23	*FLUORIDE (10% SOLN)	mg/Ltr.	1.74	APHA 4500-F- C
24	AMMONIACAL NITROGEN (10% SOLN)	mg/Ltr	BDL	APHA 4500 NH3 C
25	CYANIDE (10% SOLN)	mg/Ltr.	BDL	APHA 4500-CN
26	*NITRATE (10% SOLN)	mg/Ltr.	4.03	APHA 4500-NO3-D
27	*COD (10% SOLN)	mg/Ltr.	23	APHA 5220-B



BHARUCH ENVIRO INFRASTRUCTURE LTD.
ANALYSIS REPORT

Barcode Id 636d0c1f3c

Parameters are in NABL scope

Remarks: SAMPLE IS SUITABLE FOR LANDFILL

----- END OF REPORT -----

For Bharuch Enviro Infrastructure Ltd.

Rafel A N
CHEMIST

J.M.
CHECKED BY
Deepak Meghpara
Executive(OA)

H.A.
AUTHORIZED
Dr. Hitendra
Gangani

