

- III. Provision for Continuous Monitoring System for waste water discharge.
26. In case of waste water sent to Common Facilities (CF) like CETP, MEE, Spray Dryer etc.
- Details of Common facilities including (1) Total capacity of the CF (2) Copy of CC&A of the CF. (3) Actual load at present (Qualitative and Quantitative – KL per day) (4) Booked quantity & Spare capacity of CF (5) Copies of XGN generated Inspection reports with analysis reports of the water/Air/Hazardous samples collected by GPCB (Last 2 year). Copies of instructions issued by GPCB in last 2 year and point wise compliance thereof. (6) Copies of Show- cause notices, closure notices etc. served by the GPCB and its compliance (6) Recommendations and suggestions of the last two Environment Audit reports of CETP and its compliance report. (7) Common Facility Up gradation scheme, if any.
 - Status of compliance to the 18(1) (b) direction issued by the CPCB with respect to CETP compliance & CEPI area action plan along with relevant supportive document.
 - Give status of compliance of Environmental norms of existing Common Infrastructure i.e. CETP, MEE & Spray Dryer (Whichever is applicable) in which you are a member.
 - Submit adequacy of Common Infrastructure i.e. CETP, MEE & Spray Dryer for additional load (Whichever is applicable) along with written confirmation/membership certificate mentioning the same (Total consented quantity, total quantity booked so far, quantity booked for the unit, spare quantity available).
27. In case of Zero Liquid Discharge (ZLD) :
- Action plan for 'Zero' discharge of effluent shall be included. Notarized undertaking for assuring that underground drainage connection will not be taken in the unit and there shall be no effluent discharge outside the plant premises.
 - Economical and technical viability of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
 - Certification of adequacy of proposed ZLD scheme through credible institutes of National repute.
 - To estimate & monitor ground water quality & its contamination status, piezometer wells, one on up gradient of the groundwater flow and other three on the down gradient side of the ground water flow of the proposed project at different depth based on available ground water depth shall be established and all the parameters mentioned in IS 10:500 for potable water standard shall be monitored.
28. In case of in-house MEE/Spray dryer for waste water treatment: Capacity of MEE/Spray dryer in KL/hr. Technical details of MEE including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required for the process etc. Techno-economical viability of the evaporation system. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
29. Technical details of ATFD/Crystallizer/ spray Dryer, RO/NF system etc. (If any).
30. Details of the treatability and feasibility of wastewater to be disposed off by means of spray dryer and its impact on environment and Human Health
31. Undertaking stating that a separate electric meter will be provided for the waste water treatment system viz. ETP, RO, MEE, Spray dryer etc. (Whichever is applicable)
32. Economical and technical viability of the effluent treatment system.
33. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
34. Action plan for reuse of liquid waste streams like Spent acids, Poly Aluminium Chloride etc. within premises to convert into valuable products instead of sending outside to actual end-users.
35. Adequacy of the proposed EMS with respect to the pollution load envisaged in terms of Air, Water and hazardous waste.
36. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
37. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may



THE WOODBRIDGE GROUP™

Mastering Science To Serve Our Customers™

Woodbridge Foam Pvt. Ltd.
Plot No. PE-44, BOL,
GIDC, Sanand Phase II
Industrial Estate, Sanand,
Ahmedabad – 382170.
Gujarat, India

Phone: +91 9228024942

www.woodbridgegroup.com

CIN : U25206DL2006PTC152496

Reg. Office :

Woodbridge Foam Pvt. Ltd.
1005, Roots Tower, Plot No. 7,
District Centre,, Laxmi Nagar,
Delhi - 110092, Delhi, INDIA

Ref: EC/WFPL/2017/001
29/11/2017

Date:

To:
State Level Expert Appraisal Committee
C/o. Gujarat Pollution Control Board
Paryavaran Bhavan,
Sector-10/A, Gandhinagar.

Sub: Application of Environment Clearance for the Molded Polyurethane Cushions / Seats manufacturing plant of M/s. Woodbridge Foam Private Limited, at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.

Category: B, 5(f)

Dear Sir,

With reference to above subject matter, we are submitting herewith,

- 1) Form-1
- 2) Pre-feasibility report
- 3) All Additional Documents as Annexure

to obtain Environmental Clearance as per EIA Notification dated 14th September, 2006 and it's subsequent amendments for the proposed Molded Polyurethane Cushions / Seats manufacturing plant of M/s. Woodbridge Foam Private Limited, at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.

We hope you would find the same in order and request your kind self to guide us for further procedure and oblige.

Thanking You,

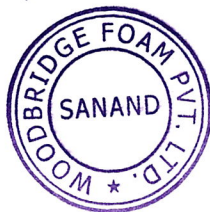
Yours faithfully,

For, Woodbridge Foam Private Limited

Handeep

HR and Admin Executive

Encl.: a/a




APPENDIX I

(See Paragraph-6)

CATEGORY - B

Note : If space provided against any parameter is inadequate, Kindly upload supporting document under 'Additional Attachments if any' at the last part of the Form1. Please note that all such Annexures must be part of single pdf document.

(I) Basic Informations

S.No.	Item	Details
	Whether it is a violation case and application is being submitted under Notification No. S.O.804(E) dated 14.03.2017 and read with amendment vide notification dated 08.03.2018. ?	No
1.	Name of the Project	Woodbridge Foam P L
2.	Project Sector	Industrial Projects - 2
3.	Location of the project	Sanand Phase-II Industrial Estate
4.	Shape of the project land Uploaded GPS file Uploaded copy of survey of India Toposheet	Block (Polygon) Annexure-GPS file  Annexure-Survey of india toposheet
5.	Brief summary of project	Annexure-Brief summary of project
6.	State of the project	Gujarat

Details of State of the project

S.no	State Name	District Name	Tehsil Name
NIL			
7.	Town / Village	Bol, Sanand	
8.	Plot/Survey/Khasra No.	PE-44	
9.	S. No. in the schedule	5(f) Synthetic organic chemicals industry (dyes & dye intermediates; bulk	
10.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number or wells to be drilled	25000 seats / cushions ha.	
11.	New/Expansion/Modernization	New	
12.	Category of project	B	
13.	Does it attract the general condition? If yes, please specify	No	
15.	Does it attract the specific condition?	No	
16.	Is there any litigation pending against the project?	No	
17.	Nearest railway station along with distance in kms.	Sanand, 13.6 km	
18.	Nearest airport along with distance in kms	Ahmedabad, 53.7 km	
19.	Nearest Town/City/District Headquarters	Sanand , 12 km	

	along with distance in kms	
20.	Distance of the project from nearest Habitation	6 , 6 km
21.	Details of alternative sites examined shown on a toposheet	No
22.	Whether part of interlinked projects?	No
23.	Whether the proposal involves approval/clearance under the Forest (Conservation)Act,1980?	No
24.	Whether the proposal involves approval/clearance under the wildlife (Protection)Act,1972?	No
25.	Whether the proposal involves approval/clearance under the C.R.Z notification,2011?	No
26.	Whether there is any Government Order/Policy relevent/relating to the site?	No
27.	Whether there is any litigation pending against the project and/or land in which the project is proposed to be set up?	No
28.	Project Cost(in lacs)	820

Activity

1 Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S.No	Information/Checklist confirmation	Yes/No	Details there of (with approximate quantities/rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	No	The land is acquired with the ready shed structure and other structures. So, no permanent / temporary change in land use.
1.2	Clearance of existing land, vegetation and buildings?	No	There is no such requirement of clearing vegetation or building as the land is ready with shed structure and in GIDC area.
1.3	Creation of new land uses?	No	Land is in GIDC area.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	The land is already acquired with shed structure in GIDC area and so no other construction activities will be carried out and so investigation is not required.
1.5	Construction works?	No	No construction activity will be carried out.
1.6	Demolition works?	No	No demolition work will be carried out.
1.7	Temporary sites used for construction works or housing of	No	Not Applicable

	construction workers?		
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations and fill or excavations	No	The land area is already acquired with ready shed, security office, etc. in GIDC area.
1.9	Underground works including mining or tunneling?	No	Not Applicable
1.10	Reclamation works?	No	Not Applicable
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production and manufacturing processes?	Yes	Sr. No Name of Product Capacity Nos. of Seats/Month 1 Moulded Polyurethane Cushions / Seats 25,000 Seats
1.14	Facilities for storage of goods or materials?	Yes	Required storage facilities for storage of goods or raw materials and finished goods will be developed.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	No	There shall be no waste water generation from the industrial activities and hence ETP is not required. The domestic waste water generated will be very less in quantity and will be disposed off through septic tank or soak pit arrangement.
1.16	Facilities for long term housing of operational workers?	No	Not Applicable
1.17	New road, rail or sea traffic during construction or operation?	No	Not Applicable
1.18	New road, rail, air water borne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	Not Applicable
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	Not Applicable
1.20	New or diverted transmission lines or pipelines?	No	Not Applicable
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not Applicable
1.22	Stream crossings?	No	There is no stream crossing
1.23	Abstraction or transfers of water from ground or surface waters?	No	Source of water will be through GIDC supply.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	Not Applicable
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	By Road only
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not Applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not Applicable
1.28	Influx of people to an area in either temporarily or permanently?	No	Not Applicable
1.29	Introduction of alien species?	No	Not Applicable
1.30	Loss of native species or genetic diversity?	No	Not Applicable

1.31 Any other actions?

No

Not Applicable

2 Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	GIDC plot with 9999.96 Sq.m. land area is acquired with ready shed.
2.2	Water (expected source & competing users) unit: KLD	Yes	Source of water will be from GIDC supply. Domestic: 6 KLD Industrial: 0.2 KLD
2.3	Minerals (MT)	No	None
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	RMC will be used for internal roads and floor area repairing and preparation.
2.5	Forests and timber (source – MT)	No	Not Applicable
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT),energy (MW)	Yes	Power Requirement: 350 KVA Source: UGVCL Stand By: 1 No. D.G. Set of 250 KVA Fuel requirement: HSD: 40 Lit/Hr
2.7	Any other natural resources (use appropriate standard units)	No	None

3 Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	Polyol – 40 MT/Month, Isocyanate – 20 MT/Month No other hazardous substance or materials will be used.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Not Applicable
3.3	Affect the welfare of people e.g. by changing living conditions?	No	Not Applicable
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.	No	Not Applicable
3.5	Any other causes	No	Not Applicable

4 Production of solid wastes during construction or operation or decommissioning (MT/month)

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates,
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			wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	Not Applicable
4.2	Municipal waste (domestic and or commercial wastes)	No	Not Applicable
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Used oil: 40 lit/Annum No other hazardous waste will be generated from the process.
4.4	Other industrial process wastes	No	Not Applicable
4.5	Surplus product	No	Not Applicable
4.6	Sewage sludge or other sludge from effluent treatment	No	Not Applicable
4.7	Construction or demolition wastes	No	Not Applicable
4.8	Redundant machinery or equipment	No	Not Applicable
4.9	Contaminated soils or other materials	No	Not Applicable
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	Not Applicable

5 Release of pollutants or any hazardous, toxic or noxious substances to air(Kg/hr)

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources	Yes	No continuous source of air emission. D.G. set and fuel used HSD - 40 Lit/Hour will be operated in power failure.
5.2	Emissions from production processes	No	Not Applicable
5.3	Emissions from materials handling including storage or transport	No	Not Applicable
5.4	Emissions from construction activities including plant and equipment	No	Not Applicable
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	Not Applicable
5.6	Emissions from incineration of waste	No	Not Applicable
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not Applicable
5.8	Emissions from any other sources	No	Not Applicable

6 Generation of Noise and Vibration, and Emissions of Light and Heat:

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data

6.1	From operation of equipment e.g. engines, ventilation plant, crushers	Yes	Low noise will be generated from various equipments. Enclosures will be provided wherever possible. PPEs to all the workers will be provided in work area.
6.2	From industrial or similar processes	Yes	Low noise will be generated from various equipments. Enclosures will be provided wherever possible. PPEs to all the workers will be provided in work area.
6.3	From construction or demolition	No	Not Applicable
6.4	From blasting or piling	No	Not Applicable
6.5	From construction or operational traffic	No	Not Applicable
6.6	From lighting or cooling systems	No	Not Applicable
6.7	From any other sources	No	Not Applicable

7 Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	Yes	All the floorings will made impervious and precaution will be taken while storing chemicals. Dyke wall will be provided around the storage tanks to control the spill in case of emergency. On-site emergency plan will be prepared and put in action.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	Domestic wastes water shall be generated will be disposed off through septic tank / soak pit arrangement.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Stack of appropriate height will be installed for flue gas stack.
7.4	From any other sources	No	Not Applicable
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	All EMS components shall run round the clock; and in case of failure of any of the system there will be safe storage arrangement, which will help for safe storage of waste/effluent. In case of extreme emergency plant will be closed till the system gets operational. On-site emergency plan will be prepared and put in action.

8 Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with
------	------------------------------------	--------	-----------------------

			approximate quantities/rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	No	All safety equipments / components shall run round the clock; and in case of failure of any of the system there will be safe storage arrangement, which will help for safe storage of waste/effluent. In case of extreme emergency plant will be closed till the system gets operational. Due care shall be taken to prevent the incident. On-site emergency plan will be prepared and put in action.
8.2	From any other causes	No	Not Applicable
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	None

9 Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
9.1	Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> ◦ Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) ◦ housing development ◦ extractive industries ◦ supply industries ◦ Other 	No	Not Applicable
9.2	Lead to after-use of the site, which could have an impact on the environment	No	Not Applicable
9.3	Set a precedent for later developments	No	Not Applicable
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	Not Applicable

(III) Environmental Sensitivity

S.No	Areas	Name/Identity	Aerial distance (within 15km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	No	Not Applicable
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	No	Not Applicable

3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	Not Applicable
4	Inland, coastal, marine or underground waters	No	Not Applicable
5	State, National boundaries	No	Not Applicable
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	Not Applicable
7	Defence installations	No	Not Applicable
8	Densely populated or built-up area	Yes	Project site is located within GIDC area of Sanand near Bol Village.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	Hospitals, Schools place of worship & community facilities are present at Sanand at approx. 10 Km distance.
10	Areas containing important, high quality or scarce resources.(ground water resources,surface resources,forestry,agriculture,fisheries,tourism,minerals)	No	Not Applicable
11	Areas already subjected to pollution or environmental damage.(those where existing legal environmental standards are exceeded)	No	Not Applicable
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions) similar effects	No	No history of landslides and cloud bursts.

(IV) PROPOSED TERMS OF REFERENCE FOR EIA STUDIES

1	Uploaded Proposed TOR File	Annexure-TOR file
2	Uploaded scanned copy of covering letter	Annexure-scanned copy of covering letter
3	Uploaded Pre-Feasibility report(PFR)	Annexure-PFR
4	Uploaded additional attachments(only single pdf file)	Annexure-Additional attachments

ADDITIONAL MULTIPLE ENTERIES

Sr. no.	Remarks	Uploaded Additional Attachments
1	EDS Reply	Annexure-Additional Attachments

(V) Undertaking

The aforesaid application and documents furnished here with are true to my knowledge

V. (i)	Name Designation Company	WOODBIDGE FOAM P L HeadHR WOODBIDGE FOAM P L
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Address

Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial
Estate, Sanand, Ahmedabad.[Print](#)

5(f):STANDARD TERMS OF REFERENCE FOR CONDUCTING ENVIRONMENT IMPACT ASSESSMENT STUDY FOR SYNTHETIC ORGANIC CHEMICALS INDUSTRY (DYES & DYE INTERMEDIATES; BULK DRUGS AND INTERMEDIATES EXCLUDING DRUG FORMULATIONS; SYNTHETIC RUBBERS; BASIC ORGANIC CHEMICALS, OTHER SYNTHETIC ORGANIC CHEMICALS AND CHEMICAL INTERMEDIATES) AND INFORMATION TO BE INCLUDED IN EIA/EMP REPORT

A. STANDARD TERMS OF REFERENCE

- 1) Executive Summary
- 2) Introduction
 - i. Details of the EIA Consultant including NABET accreditation
 - ii. Information about the project proponent
 - iii. Importance and benefits of the project
- 3) Project Description
 - i. Cost of project and time of completion.
 - ii. Products with capacities for the proposed project.
 - iii. If expansion project, details of existing products with capacities and whether adequate land is available for expansion, reference of earlier EC if any.
 - iv. List of raw materials required and their source along with mode of transportation.
 - v. Other chemicals and materials required with quantities and storage capacities
 - vi. Details of Emission, effluents, hazardous waste generation and their management.
 - vii. Requirement of water, power, with source of supply, status of approval, water balance diagram, man-power requirement (regular and contract)
 - viii. Process description along with major equipments and machineries, process flow sheet (quantative) from raw material to products to be provided
 - ix. Hazard identification and details of proposed safety systems.
 - x. Expansion/modernization proposals:
 - c. Copy of all the Environmental Clearance(s) including Amendments thereto obtained for the project from MOEF/SEIAA shall be attached as an Annexure. A certified copy of the latest Monitoring Report of the Regional Office of the Ministry of Environment and Forests as per circular dated 30th May, 2012 on the status of compliance of conditions stipulated in all the existing environmental clearances including Amendments shall be provided. In

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

addition, status of compliance of Consent to Operate for the ongoing Iexisting operation of the project from SPCB shall be attached with the EIA-EMP report.

- d. In case the existing project has not obtained environmental clearance, reasons for not taking EC under the provisions of the EIA Notification 1994 and/or EIA Notification 2006 shall be provided. Copies of Consent to Establish/No Objection Certificate and Consent to Operate (in case of units operating prior to EIA Notification 2006, CTE and CTO of FY 2005-2006) obtained from the SPCB shall be submitted. Further, compliance report to the conditions of consents from the SPCB shall be submitted.

4) Site Details

- i. Location of the project site covering village, Taluka/Tehsil, District and State, Justification for selecting the site, whether other sites were considered.
- ii. A toposheet of the study area of radius of 10km and site location on 1:50,000/1:25,000 scale on an A3/A2 sheet. (including all eco-sensitive areas and environmentally sensitive places)
- iii. Details w.r.t. option analysis for selection of site
- iv. Co-ordinates (lat-long) of all four corners of the site.
- v. Google map-Earth downloaded of the project site.
- vi. Layout maps indicating existing unit as well as proposed unit indicating storage area, plant area, greenbelt area, utilities etc. If located within an Industrial area/Estate/Complex, layout of Industrial Area indicating location of unit within the Industrial area/Estate.
- vii. Photographs of the proposed and existing (if applicable) plant site. If existing, show photographs of plantation/greenbelt, in particular.
- viii. Landuse break-up of total land of the project site (identified and acquired), government/private - agricultural, forest, wasteland, water bodies, settlements, etc shall be included. (not required for industrial area)
- ix. A list of major industries with name and type within study area (10km radius) shall be incorporated. Land use details of the study area
- x. Geological features and Geo-hydrological status of the study area shall be included.
- xi. Details of Drainage of the project upto 5km radius of study area. If the site is within 1 km radius of any major river, peak and lean season river discharge as well as flood occurrence frequency based on peak rainfall data of the past 30 years. Details of Flood Level of the project site and maximum Flood Level of the river shall also be provided. (mega green field projects)
- xii. Status of acquisition of land. If acquisition is not complete, stage of the acquisition process and expected time of complete possession of the land.
- xiii. R&R details in respect of land in line with state Government policy.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- 5) Forest and wildlife related issues (if applicable):
- i. Permission and approval for the use of forest land (forestry clearance), if any, and recommendations of the State Forest Department. (if applicable)
 - ii. Landuse map based on High resolution satellite imagery (GPS) of the proposed site delineating the forestland (in case of projects involving forest land more than 40 ha)
 - iii. Status of Application submitted for obtaining the stage I forestry clearance along with latest status shall be submitted.
 - iv. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wild Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden-thereon.
 - v. Wildlife Conservation Plan duly authenticated by the Chief Wildlife Warden of the State Government for conservation of Schedule I fauna, if any exists in the study area.
 - vi. Copy of application submitted for clearance under the Wildlife (Protection) Act, 1972, to the Standing Committee of the National Board for Wildlife.
- 6) Environmental Status
- i. Determination of atmospheric inversion level at the project site and site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall.
 - ii. AAQ data (except monsoon) at 8 locations for PM10, PM2.5, SO₂, NO_x, CO and other parameters relevant to the project shall be collected. The monitoring stations shall be based CPCB guidelines and take into account the pre-dominant wind direction, population zone and sensitive receptors including reserved forests.
 - iii. Raw data of all AAQ measurement for 12 weeks of all stations as per frequency given in the NAQPM Notification of Nov. 2009 along with - min., max., average and 98% values for each of the AAQ parameters from data of all AAQ stations should be provided as an annexure to the EIA Report.
 - iv. Surface water quality of nearby River (100m upstream and downstream of discharge point) and other surface drains at eight locations as per CPCB/MoEF&CC guidelines.
 - v. Whether the site falls near to polluted stretch of river identified by the CPCB/MoEF&CC, if yes give details.
 - vi. Ground water monitoring at minimum at 8 locations shall be included.
 - vii. Noise levels monitoring at 8 locations within the study area.
 - viii. Soil Characteristic as per CPCB guidelines.
 - ix. Traffic study of the area, type of vehicles, frequency of vehicles for transportation of materials, additional traffic due to proposed project, parking arrangement etc.

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

- x. Detailed description of flora and fauna (terrestrial and aquatic) existing in the study area shall be given with special reference to rare, endemic and endangered species. If Schedule-I fauna are found within the study area, a Wildlife Conservation Plan shall be prepared and furnished.
- xi. Socio-economic status of the study area.

7) Impact and Environment Management Plan

- i. Assessment of ground level concentration of pollutants from the stack emission based on site-specific meteorological features. In case the project is located on a hilly terrain, the AQIP Modelling shall be done using inputs of the specific terrain characteristics for determining the potential impacts of the project on the AAQ. Cumulative impact of all sources of emissions (including transportation) on the AAQ of the area shall be assessed. Details of the model used and the input data used for modelling shall also be provided. The air quality contours shall be plotted on a location map showing the location of project site, habitation nearby, sensitive receptors, if any.
- ii. Water Quality modelling - in case of discharge in water body
- iii. Impact of the transport of the raw materials and end products on the surrounding environment shall be assessed and provided. In this regard, options for transport of raw materials and finished products and wastes (large quantities) by rail or rail-cum road transport or conveyor-cum-rail transport shall be examined.
- iv. A note on treatment of wastewater from different plant operations, extent recycled and reused for different purposes shall be included. Complete scheme of effluent treatment. Characteristics of untreated and treated effluent to meet the prescribed standards of discharge under E(P) Rules.
- v. Details of stack emission and action plan for control of emissions to meet standards.
- vi. Measures for fugitive emission control
- vii. Details of hazardous waste generation and their storage, utilization and management. Copies of MOU regarding utilization of solid and hazardous waste in cement plant shall also be included. EMP shall include the concept of waste-minimization, recycle/reuse/recover techniques, Energy conservation, and natural resource conservation.
- viii. Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 2009. A detailed plan of action shall be provided.
- ix. Action plan for the green belt development plan in 33 % area i.e. land with not less than 1,500 trees per ha. Giving details of species, width of plantation, planning schedule etc. shall be included. The green belt shall be around the project boundary and a scheme for greening of the roads used for the project shall also be incorporated.
- x. Action plan for rainwater harvesting measures at plant site shall be submitted to harvest rainwater from the roof tops and storm water drains to recharge the ground water and also to

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

use for the various activities at the project site to conserve fresh water and reduce the water requirement from other sources.

- xi. Total capital cost and recurring cost/annum for environmental pollution control measures shall be included.
- xii. Action plan for post-project environmental monitoring shall be submitted.
- xiii. Onsite and Offsite Disaster (natural and Man-made) Preparedness and Emergency Management Plan including Risk Assessment and damage control. Disaster management plan should be linked with District Disaster Management Plan.

8) Occupational health

- i. Plan and fund allocation to ensure the occupational health & safety of all contract and casual workers
- ii. Details of exposure specific health status evaluation of worker. If the workers' health is being evaluated by pre designed format, chest x rays, Audiometry, Spirometry, Vision testing (Far & Near vision, colour vision and any other ocular defect) ECG, during pre placement and periodical examinations give the details of the same. Details regarding last month analyzed data of above mentioned parameters as per age, sex, duration of exposure and department wise.
- iii. Details of existing Occupational & Safety Hazards. What are the exposure levels of hazards and whether they are within Permissible Exposure level (PEL). If these are not within PEL, what measures the company has adopted to keep them within PEL so that health of the workers can be preserved,
- iv. Annual report of health status of workers with special reference to Occupational Health and Safety.

9) Corporate Environment Policy

- i. Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report.
- ii. Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions? If so, it may be detailed in the EIA.
- iii. What is the hierarchical system or Administrative order of the company to deal with the environmental issues and for ensuring compliance with the environmental clearance conditions? Details of this system may be given.
- iv. Does the company have system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism shall be detailed in the EIA report

STANDARD TERMS OF REFERENCE (TOR) FOR EIA/EMP REPORT FOR PROJECTS/ ACTIVITIES REQUIRING ENVIRONMENT CLEARANCE

10) Details regarding infrastructure facilities such as sanitation, fuel, restroom etc. to be provided to the labour force during construction as well as to the casual workers including truck drivers during operation phase.

11) Enterprise Social Commitment (ESC)

i. Adequate funds (at least 2.5 % of the project cost) shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be included. Socio-economic development activities need to be elaborated upon.

12) Any litigation pending against the project and/or any direction/order passed by any Court of Law against the project, if so, details thereof shall also be included. Has the unit received any notice under the Section 5 of Environment (Protection) Act, 1986 or relevant Sections of Air and Water Acts? If so, details thereof and compliance/ATR to the notice(s) and present status of the case.

13) A tabular chart with index for point wise compliance of above TOR.

B. SPECIFIC TERMS OF REFERENCE FOR EIA STUDIES FOR SYNTHETIC ORGANIC CHEMICALS INDUSTRY (DYES & DYE INTERMEDIATES; BULK DRUGS AND INTERMEDIATES EXCLUDING DRUG FORMULATIONS; SYNTHETIC RUBBERS; BASIC ORGANIC CHEMICALS, OTHER SYNTHETIC ORGANIC CHEMICALS AND CHEMICAL INTERMEDIATES)

1. Details on solvents to be used, measures for solvent recovery and for emissions control.
2. Details of process emissions from the proposed unit and its arrangement to control.
3. Ambient air quality data should include VOC, other process-specific pollutants* like NH₃*, chlorine*, HCl*, HBr*, H₂S*, HF*, etc., (*-as applicable)
4. Work zone monitoring arrangements for hazardous chemicals.
5. Detailed effluent treatment scheme including segregation of effluent streams for units adopting 'Zero' liquid discharge.
6. Action plan for odour control to be submitted.
7. A copy of the Memorandum of Understanding signed with cement manufacturers indicating clearly that they co-process organic solid/hazardous waste generated.
8. Authorization/Membership for the disposal of liquid effluent in CETP and solid/hazardous waste in TSDF, if any.
9. Action plan for utilization of MEE/dryers salts.
10. Material Safety Data Sheet for all the Chemicals are being used/will be used.
11. Authorization/Membership for the disposal of solid/hazardous waste in TSDF.

EC Application and PRE-FEASIBILITY REPORT



FOR OBTAINING ENVIRONMENT CLEARANCE

Moulded Polyurethane Cushions / Seats
Manufacturing Unit

Category- 5(f)

WOODBIDGE FOAM PRIVATE LIMITED

Location:

Plot no. PE-44, BOL, GIDC,
Sanand Phase-II Industrial Estate,
Sanand, Ahmedabad-382170

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CHAPTER 1

INTRODUCTION TO THE PROJECT

The Woodbridge Group offers innovative urethane and particle foam technologies, to serve the automotive, commercial, military and recreational vehicle industries, along with several other business sectors including: Protective Packaging, Healthcare and Building products.

Since 1978, with its first plant in Woodbridge, Canada, The Woodbridge Group has grown throughout North and South America, Europe and Asia Pacific. In addition to its manufacturing operations, Woodbridge offers a full complement of services including: chemical research and development, product and process engineering, tooling, technical support and accredited laboratory testing.

The Woodbridge Group supplies products that provide five key functions, offering comfort, acoustics, safety, structural and insulation properties. Woodbridge supplies: seat cushioning, seat frame components, interior soft trim, occupant safety components, noise/vibration/harshness solutions, cargo management products, composite sheet foam products, engineered technical foams, assembly services and product development.

The key competitive strength for The Woodbridge Group, continues to revolve around its people and their commitment to improve everything they do. Woodbridge is focused on evolving workplace safety, sustainable environmental stewardship and enduring customer satisfaction.

Flexible polyurethane foam helps in providing comfort to everyone, every day. It is best known for supporting our body for a large part of the day, in mattresses, upholstered furniture and car seats. What is sometimes less known is that we enjoy the benefits of hundreds of polyurethane foam articles without even noticing. Its applications are virtually endless, ranging from small but essential items such as sponges in the kitchen, medical dressings to large filters and

soundproofing systems that keep our environment clean and quiet. Proper design/selection, construction and management of the manufacturing operations will mitigate such negative impacts.

1.1 PROJECT PROPONENTS

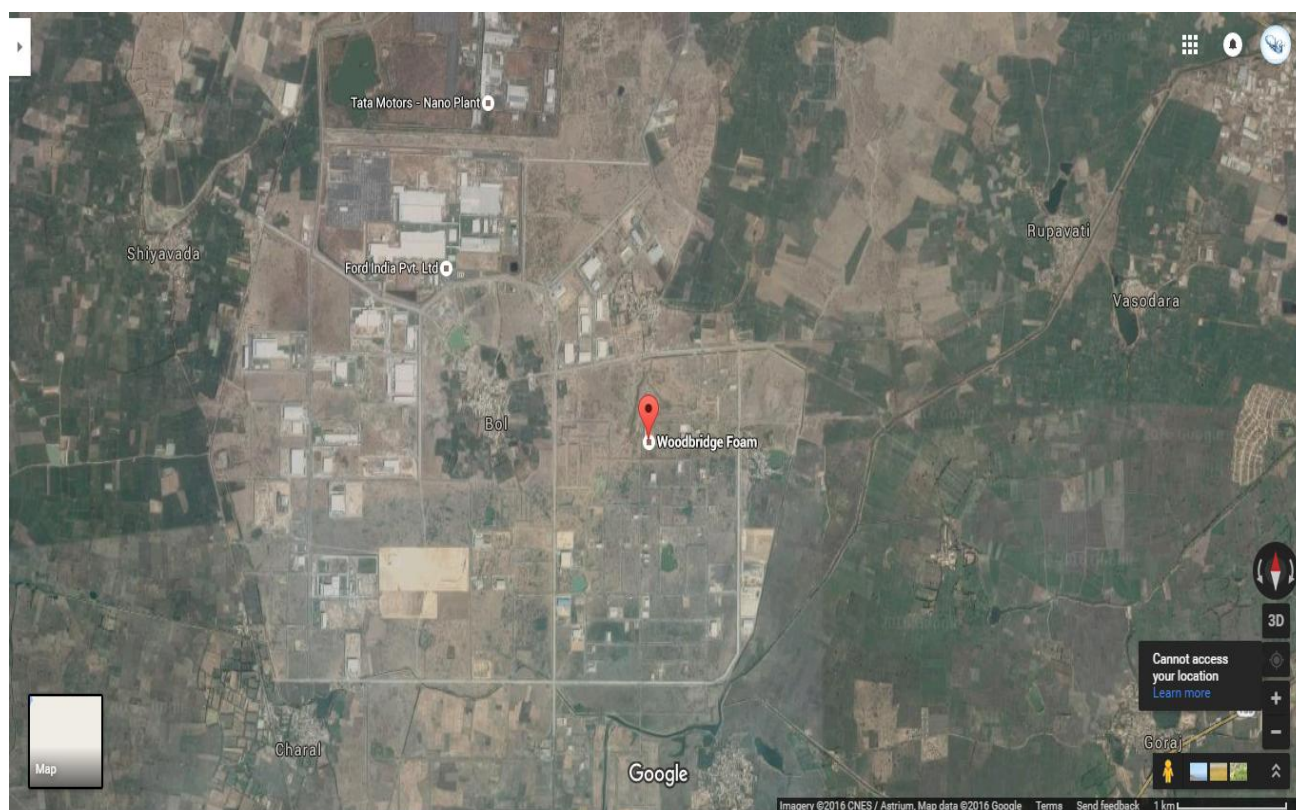
1. **Mr. Sandeep Ramesh Akolkar**
**A/304, Gala Area, Opp. Gala Swing, Near SOBD Centre,
South Bopal, Ahmedabad - 380058**
2. **Mr. Deepak Mancahnda**
**C/2/802, Parsvanath Exotica, Golf Course Road,
Sector-53, Gurgaon, HARYANA-122001**

CHAPTER 2

PROJECT DESCRIPTION

2.1 PROJECT LOCATION

The Project is located at coordinates 22°59'32.16"N 72°14'21.07"E ; at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India, 12 Km away from Sanand Railway Station and 53.7 Km (via NH 8A) far from Ahmedabad Airport. Plant is just a 0.8 Km away from highway that provides a convenient & competitive trade gateway to domestic market transportation.



2.2 ALTERNATE SITES CONSIDERED

The company has not considered any alternate sites in Gujarat. This site was chosen being near to National Highway 8A for ease of transportation. Necessary permissions from State Pollution control Board for the same will be procured before starting activity. The site is having all required infrastructure facilities in form of; water, electricity, fuel etc available for proposed activities.

2.3 PRODUCTS & RAW MATERIAL DETAILS

Product Details

The Details of Proposed Products are given in following table:

Sr.No.	Name of Product	Capacity in Nos. of Seats / Month
1	Moulded Polyurethane Cushions / Seats	25,000 Seats

Raw Material Details

Name of Raw Materials	Consumption
Polyol	40 MT/Month
Isocyanate	20 MT/Month

Details of Air Pollution Sources

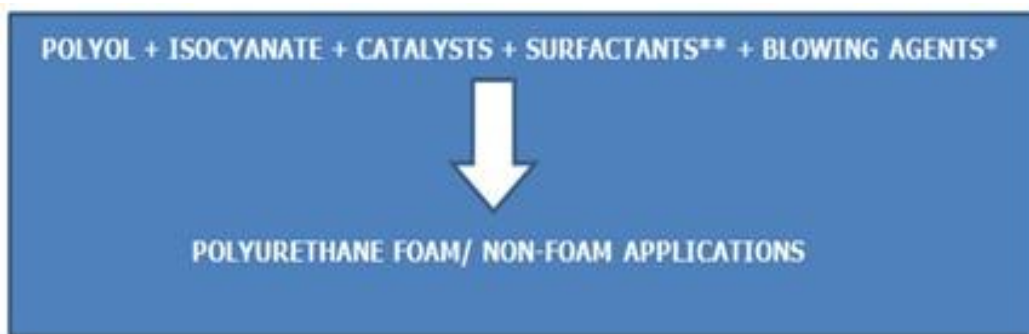
Sr. No.	Stack attached to	Height of the stack In meter	Fuel Type	APC System
1	D.G. Set –250 KVA (Stand-by)	7	HSD – 200 Lit/Month	Adequate stack height
2	Oven-1	15	Natural Gas – 4 MBTU/Hr.	Adequate stack height
3	Oven-2	15	Natural Gas – 4 MBTU/Hr.	Adequate stack height
4	Hot Air Vent-1	12	--	Adequate stack height
5	Hot Air Vent-2	12	--	Adequate stack height
6	Hot Air Vent-3	12	--	Adequate stack height
7	Hot Air Vent-4	12	--	Adequate stack height

2.4 MANUFACTURING PROCESS:

POLYURETHANE FOAM:

Polyurethane foam has two main types: Ester and Ether based. Their properties can be varied in accordance with market requirements.

Polyurethanes are produced by reacting an Isocyanate containing two or more Isocyanate groups per molecule with a Polyol containing on average two or more Hydroxyl groups per molecule in the presence of a catalyst or by activation with ultraviolet light.



Polyol are mixed together along with additives in a large container. The additives are measured in proportions and then added. This mixture is churned properly using a blender which mixes all the chemicals together. The agitation time for the mixture takes about 40-50 minutes. This mixture is then pumped to the surge tanks for the next process.

Applications:

- When Resin S is added in the mixture, owing to its softness improving property it is used for the manufacture of pillows.(Hardness is approximately 75N)
- When Resin L is added, hardness is improved leading to its usage in automotive cushion (Hardness is approximately 350-400N) and Seat Back Foam pads. (Hardness is approximately 200-250N)

POURING IN THE MOULD:

A robotic arm having a pour head mixes the isocyanate and polyol together and pours into the mould. The movement and functions of the pour head is controlled by software. Software called Robotic Filing System (RFS) is used to control the functions of the pour head. Second software named Mould Filing

System (MFS) allows the control of the individual molds' position, temperature, and pouring layout. Wonderware is the third software which helps in monitoring the production line speed, Target & Actual Weight of the material poured, pressure & temperature level.

Robotic Filing System gives inputs to the pour head regarding pouring pattern. This input allows the synchronization of the production line speed with the pouring head. The Input lets the residue of the mixture at the tip of the pour head to be cleaned by a burst of air.

Mould Filing System allows the user to input the data of each mould like its part number, position on the production line, pouring time, and temperature of the mould.

OVEN CURING:

The Mould passes through an oven where it is cured for about 4 to 5min. During this process the foam is formed by the chemical reaction of Isocyanate and Polyol mixed with additives. During the foam molding process, the chemical reaction of foam forming creates and releases gases. In order to allow the foam to grow and fill the tool properly, various venting technologies can be applied. Below are some of the venting technologies used,

- Ribbon Vents
- Channel Vents
- Slot Vents
- Through Hole Vents

DEMOULDING & CLEANING OF THE MOULD:

After the curing process is finished the mould lid is opened and the foam is removed manually from mould. Using air pressure the mould is cleaned properly ensuring no foam sticks to the lid or bowl. Then a release agent made of liquid wax is sprayed on the mould. After this Wire Inserts, Cloth (like Corovin and Needle punch) and Velcro are positioned in the mould. The mould is then sent for the pouring process.

CRUSHING:

Foam which is demolded is immediately passed through a crusher. This releases the trapped gases within the foam to the outside. By this shape of the foam is

maintained. If the foam is not crushed within four minutes, it affects the foam shape by inducing shrinkage.

There are two types of Crusher used,

- **Roller Crusher:**

Foam which does not contain any wire inserts are passed through the rollers. The gap between the two rollers is maintained according to the foam size. For Example Front Cushion and Seat Back

- **Vacuum Crusher :**

Foam which contain the wire inserts are passed through this type of crusher. Foam passes through a chamber where air and gases is sucked to create a vacuum. Then air is released in the chamber and the process is repeated for 4 to 5 times. This removes the trapped gases within the foam.

TRIMMING:

The flashes are trimmed manually using a trimmer and then sent to Inspection.

INSPECTION:

Foam pad is inspected for any damages. If the foam pad is ok, it is date stamped and sent to dispatch. If it is not, then it is sent to the repair station for repairs. If the damage is irreparable then the foam pad is rejected.

General criteria for acceptance of part:

- Insert wire must be visible in the hog ring window. Insert wire should not shift from hog ring window.
- Repair is not permitted in ILD area.
- Repair should match the surface contour of the pads.
- Voids that affect the functional area (trenches and profile) must be repaired.

REPAIRING:

If the part is not ok in inspection it is sent to repair station. Repair is followed as below,

- **RSB (Rear Seat Back):**

5 repairs on each surface are allowed with a maximum size of 120x120mm.

- **RSC (Rear Seat Cushion):**

5 repairs on each surface are allowed with maximum size of 120x120mm.

All B surface hog ring should clean.

- FSB (Front Seat Back):

4 repairs on each surface is allowed with a maximum size of 80x80mm.

No repairs required for tearing and voids under the marked line.

- FSC (Front Seat Cushion):

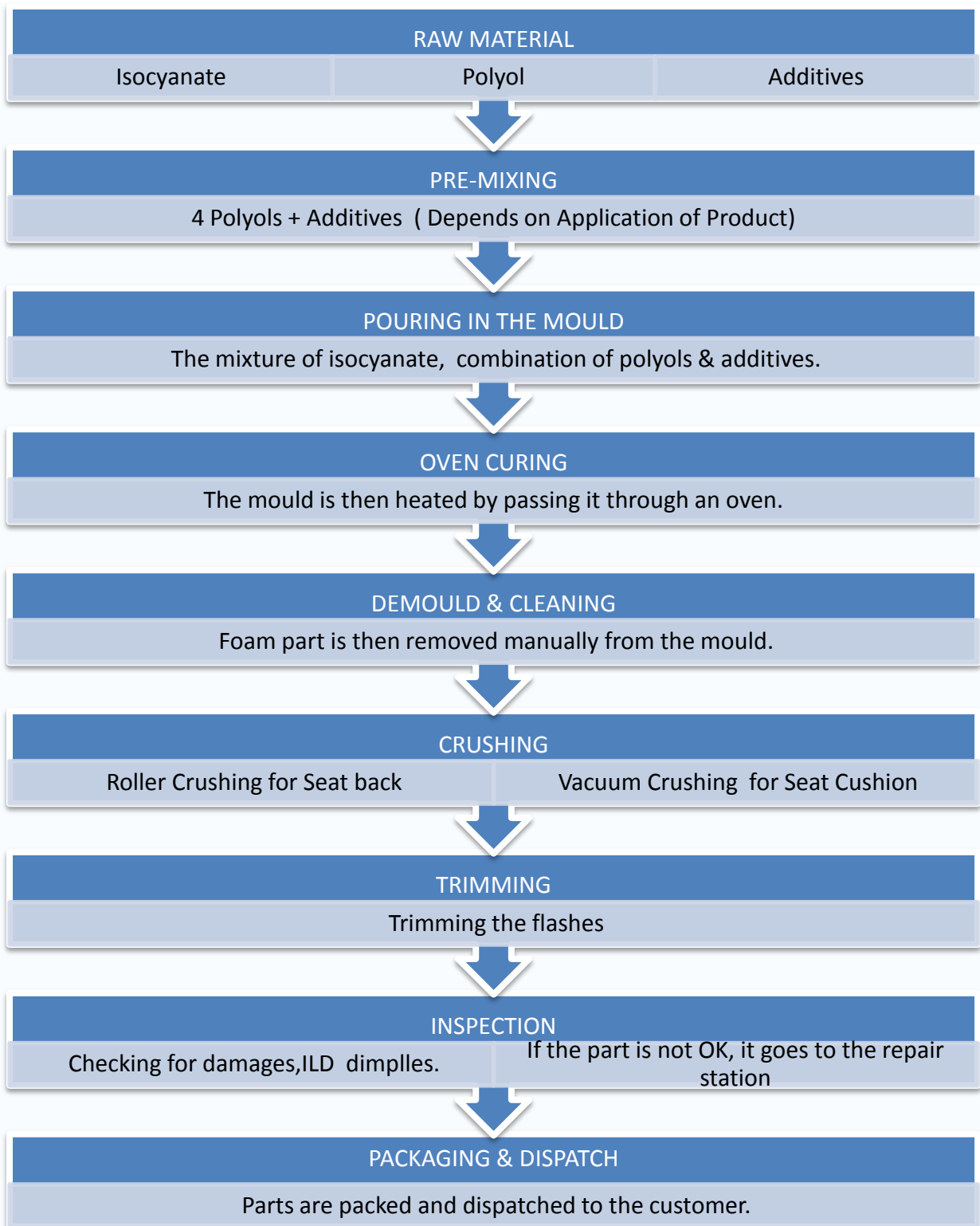
4 repairs on each surface are allowed with maximum size of 100x100mm.

Void at the corner (Marked) is allowed.

The part which has undergone repair is again sent to Inspection. If the part is OK at the Inspection it is then dispatched.

PACKAGING & DISPATCH:

An Anti-Squeak spray is applied on the B-Surface of the foam for minimizing the noise when the foam comes in contact with the seat frame assembly. The spraying areas depend on customer needs. Then the Foam pads are stacked in trolleys. Trolleys are then dispatched to the customer.

PRECESS FLOW CHART

2.5 UTILITIES REQUIREMENT

All utilities required for the project are as under

Sr. No.	Particulars	Consumption
1	Power Consumption	350 KVA
2	Water Requirement	Domestic-6.0 KLD Industrial- 0.2 KLD
3	FUEL : HSD	40 Lit/hour (for stand-by D. G Set)

- Power: Required power would be taken from GEB
- Water: Water would be procured from GIDC Supply
- Fuel : HSD –40 Lit/hour would be used.

2.6 MANPOWER REQUIREMENT

Required specialized man power & talent would be recruited / hired locally and supporting services would be made available from nearest village. Approximately 30 people will be employed.

CHAPTER 3 SITE ANALYSIS

3.1 CONNECTIVITY

GIDC Phase-II, Sanand is well connected by rail, road & air.

Road:

- Linked to the National Highway Network through an extension of NH 8 from Sanand NH-8,

Rail:

- Project site is 13.6 Km away from Sanand railway station.

Air:

Ahmadabad has a fully functional, long airstrip for servicing the of private commercial jets which is proposed to be developed as an air cargo hub.

- Ahmadabad airport is 53.7 Km (via NH 8A) away from Project site.

3.2 EXISTING LANDUSE PATTERN

Currently the land is Occupied by Woodbridge Foam Private Limited and No agricultural activities are done on this.

3.3 TOPOGRAPHY

The area is flat in nature.

It is a plot developed by GIDC.

The average elevation above mean sea level is 40 m.

3.4 SOCIAL INFRASTRUCTURE AVAILABLE:

The social infrastructure available at Sanand, which is 12 km from site is listed below. (within 12 km Sanand village)

- Housing colonies
- Public School
- Hospital / Clinic
- Children's Park
- Community Centers
- Pharmacy
- Market

3.5 REHABILITATION & RESETTLEMENT PLAN

Land is already in GIDC area. The land is acquired along with the ready shed and structures. No permanent/temporary change in land use.

3.6 LAND USE BREAKUP

This plant will be located in survey no PE-44, having an area of 9999.96 sqm. The breakup of area into different uses is summarized in following table

S No	Description of Area	Area (m ²)
1	Storage	1000
2	Processing	4700
3	Admin	750
4	Store	200
5	Green belt	1500
6	Open space	1849
Total		9999

CHAPTER 4

PROPOSED ENVIRONMENTAL INFRASTRUCTURE

Company intends to establish manufacturing of Moulded Polyurethane Cushions / Seats. The company will take into account all environmental aspects so that no pollution hazard is ever created in and around the plant. Every effort is being made to keep zero air pollution as well as water pollution. In addition to the above, care has been taken to provide green belt around the plant.

4.1 MANAGEMENT OF DOMESTIC WASTE WATER

The domestic effluent - sewage (4.5 KLD) shall be disposed through septic tank/ soak pit.

4.2 MANAGEMENT OF INDUSTRIAL WASTE WATER

There will be no industrial wastewater generation. Hence, no ETP proposed.

4.3 AIR QUALITY MANAGEMENT:

The only source of air pollution is D.G. Set, which consumes HSD, Oven which consumes Natural Gas and other Process Hot Air Vents and hence can be considered as non-polluting. Plant area has well ventilated, cross air flow.

4.4 SOLID & HAZARDOUS WASTE MANAGEMENT

The details of hazardous wastes generation from the proposed project & its management & Handling are listed in the following tables. All the requirements of hazardous waste rules shall be complied with.

Sr. no.	Type of hazardous waste	Category	Quantity	Management
1.	Used oil	5.1	0.1MT/year	Collection, storage, transportation and disposal by registered recyclers
2.	Wastes /	23.1	2.5	Collection, storage, Reuse,

	Residues		MT/Year	Registered recyclers, transportation and disposal
3.	Discarded Containers / Barrels / Liners	33.3	2.5 MT/Year	Collection, storage, Reuse, Registered recyclers, transportation and disposal

4.5 HAZARDOUS CHEMICALS DETAILS

The major raw materials; Polyol and Isocyanate are hazardous and will be stored in a quantity less than mentioned in MAH Rules.

4.6 WASTE MINIMIZATION MEASURES

This is a proposed unit with very less pollution potential. The only reason of falling under the purview of Environment Clearance is the chemical reaction between Isocyanate and Polyol for generation of Poly Urethane Foam.

- There would be no industrial effluent generation
- The only source of flue gas emission would be stand-by D. G. Sets
- The hazardous waste to be generated shall be managed as per applicable governing regulations

CHAPTER 5

PROJECT SCHEDULE & COST ESTIMATES

5.1 PROPOSED SCHEDULE

The industry seeks Environmental Clearance (EC) and intends to start commissioning activities from June 2018 and final production activities from August 2018.

Sr. No.	Activity	Schedule
1	Application for Environmental Clearance	December 2017
2	TOR finalization Meeting	January 2018
3	Avail Environmental Clearance	June 2018
4	Final Project Activities	July 2018
5	Start Production Activities	August 2018

ANNEXURE I

PROJECT WITH SURROUNDING 5 KM RADIUS AREA







THE WOODBRIDGE GROUP™

Mastering Science To Serve Our Customers™

Woodbridge Foam Pvt. Ltd.

Plot No. PE-44, BOL,
GIDC, Sanand Phase II
Industrial Estate, Sanand,
Ahmedabad – 382170,
Gujarat, India

Phone: +91 9228024942

www.woodbridgegroup.com

CIN : U25206DL2006PTC152496

Reg. Office :

Woodbridge Foam Pvt. Ltd.

1005, Roots Tower, Plot No. 7,
District Centre,, Laxmi Nagar,
Delhi - 110092, Delhi, INDIA

Ref: EC/WFPL/2017/002
08/02/2018

Date:

To:

State Level Expert Appraisal Committee

C/o. Gujarat Pollution Control Board

Paryavaran Bhavan,

Sector-10/A, Gandhinagar.

Sub: EDS for application of Environment Clearance for the Molded Polyurethane Cushions / Seats manufacturing plant of M/s. Woodbridge Foam Private Limited, at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.

Proposal no.: SIA/GJ/IND2/21344/2017

Dear Sir,

With reference to the EDS generated for the our above application, we would like to inform your good selves that we will follow and comply with all the requirements of EIA Notification 2006 and their subsequent amendments time to time.

We hope you would find the same in order and request your kind self to accept our application to guide us for further procedure and oblige.

Thanking You,

Yours faithfully,

For, **Woodbridge Foam Private Limited**

Shandeep

HR and Admin Executive

Encl.: a/a



TEST REPORT

Report No.	URC /19/02/EL-0119	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Goraj (GW2) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0119			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed.,2017, IS 3025(Part 11)1983	--	7.4
2.	Temperature	IS 3025(Part 9)1984	°C	31
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	6.5
4.	Odour	IS 3025(Part 5)1983	--	Unobjectionable
5.	*Taste	IS 3025(Part 7)1984	--	Agreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	1.1
7.	Total Dissolved Solids	(APHA 23 rd Ed.,2017, 2540-C), IS 3025(Part 16)1984	mg/L	239
8.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed.,2017, 2540-D),	mg/L	25.0
9.	Total Solids	IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed.,2017, 2540-B),	mg/L	264
10.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	382
11.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed.,2017, 4500-O,B),	mg/L	3.8
12.	Total Alkalinity as CaCO ₃	(IS 3025(Part 23)1986, Amd.2)	mg/L	201
13.	Total Hardness as CaCO ₃	(IS 3025(Part 21)2009,Amd.1)	mg/L	204
14.	Calcium Hardness	(APHA 23 rd Ed.,2017, 3500 Ca.B)	mg/L	110
15.	Magnesium Hardness	(APHA 23 rd Ed.,2017, 3500 Mg.B)	mg/L	94
16.	Sodium as Na	APHA 23 rd Ed.,2017, 3500 Na,B	mg/L	187
17.	Potassium as K	APHA 23 rd Ed.,2017, 3500 K,B	mg/L	6.2
18.	Magnesium as Mg	(APHA 23 rd Ed.,2017, 3500 Mg.B)	mg/L	9
19.	Calcium as Ca	(APHA 23 rd Ed.,2017, 3500 Ca.B)	mg/L	59
20.	Chloride as Cl ⁻	(APHA 23 rd Ed.,2017, 4500-Cl)	mg/L	172
21.	Sulphate as SO ₄ ⁻²	IS 3025(Part 24)1986	mg/L	55.4
22.	*Phosphorous as P	APHA 23 rd Ed.,2017, 4500-P,D	mg/L	0.54
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed.,2017, 4500 NO3-B)	mg/L	3.5
25.	Fluoride as F	(APHA 23 rd Ed.,2017, 4500 F,D)	mg/L	0.57
26.	*Boron as B	IS 13428 Annexure - H	mg/L	0.12
27.	Total Arsenic as As	APHA 23 rd Ed.,2017, 3114-C	mg/L	BDL(MDL:0.01)
28.	Cyanide as CN	IS 3025(Part 27)1986	mg/L	BDL(MDL:0.05)

Page 1 of 2



Regd. Office : 215, Royal Arcade, Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73109GJ2007PTC051463

UERL/CHM/F-2/02

TEST REPORT

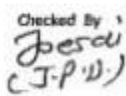
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Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Goraj (GW2) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0119			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
29.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.1)
30.	Manganese as Mn	APHA 23 rd Ed., 2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
31.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.01)
32.	Copper as Cu	IS 3025(Part 42)1992amd.01, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.05)
34.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.05)

Note: The parameters marked with an * are not accredited by NABL, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

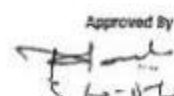
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(Chemist)

Page 2 of 2

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(Sr. Chemist)

Approved By


(Technical Manager)

UERL/CHM/F-2/02

TEST REPORT

Report No.	URC /19/02/EL-0120	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kalana (GW3) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0120			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	--	7.6
2.	Temperature	IS 3025(Part 9)1984	°C	33
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	5
4.	Odour	IS 3025(Part 5)1983	-	Unobjectionable
5.	*Taste	IS 3025(Part 7)1984	-	Agreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	1
7.	Total Dissolved Solids	(APHA 23 rd Ed., 2017, 2540- C), IS 3025(Part 16)1984	mg/L	250
8.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540 -D),	mg/L	35.0
9.	Total Solids	IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540 -B),	mg/L	285
10.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	389
11.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B),	mg/L	3.6
12.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	215
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009, Amd.1]	mg/L	230
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	142
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	88
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na,B	mg/L	217
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K,B	mg/L	5.1
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	18
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	75
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	211
21.	Sulphate as SO ₄ ²⁻	IS 3025(Part 24)1986	mg/L	97.22
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.51
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	4.7
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F,D)	mg/L	0.61
26.	*Boron as B	IS 13428 Annexure - H	mg/L	0.17
27.	Total Arsenic as As	APHA 23 rd Ed., 2017, 3114-C	mg/L	BDL(MDL:0.01)
28.	Cyanide as CN	IS 3025(Part 27)1986	mg/L	BDL(MDL:0.05)

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UERL/CHM/F-2/02



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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0120	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kalana (GW3) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0120			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
29.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.1)
30.	Manganese as Mn	APHA 23 rd Ed.,2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
31.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.01)
32.	Copper as Cu	IS 3025(Part 42)1992amd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
34.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)

Note: The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit.

***** End of Report *****

Checked By,

J.P.D.
(J.P.D.)

(Chemist)

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Checked By

(N.P.E.)
(N.P.E.)

(Sr. Chemist)

Approved By

(T.M.)
(T.M.)

(Technical Manager)

UERL/CHM/T-2/02

TEST REPORT

Report No.	URC /19/02/EL-0121	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kunvar (GW4) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0121			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	--	7.3
2.	Temperature	IS 3025(Part 9)1984	°C	32
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	5.9
4.	Odour	IS 3025(Part 5)1983	-	Unobjectionable
5.	*Taste	IS 3025(Part 7)1984	-	Agreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	1.2
7.	Total Dissolved Solids	(APHA 23 rd Ed., 2017, 2540-C), IS 3025(Part 16)1984	mg/L	252
8.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-D), IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-B),	mg/L	40.0
9.	Total Solids	IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-B),	mg/L	292
10.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	401
11.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B),	mg/L	3.5
12.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	220
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009,Amd.1]	mg/L	226
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	136
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	90
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na.B	mg/L	228
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K.B	mg/L	5.5
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	22
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	45
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	220
21.	Sulphate as SO ₄ ²⁻	IS 3025(Part 24)1986	mg/L	77.12
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.44
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	5.1
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F,D)	mg/L	0.50
26.	*Boron as B	IS 13428 Annexure - H	mg/L	0.21
27.	Total Arsenic as As	APHA 23 rd Ed., 2017, 3114-C	mg/L	BDL(MDL:0.01)
28.	Cyanide as CN	IS 3025(Part 27)1986	mg/L	BDL(MDL:0.05)

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Extended Work Office : G.I.D.C., Dahaj-II, Bhanuch, Gujarat.

CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0121	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kurwar (GW4) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019

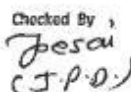
UERL Lab Sample ID.No. 19/02/EL-0121

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
29.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.1)
30.	Manganese as Mn	APHA 23 rd Ed.,2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
31.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.01)
32.	Copper as Cu	IS 3025(Part 42)1992amd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
34.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)

Note: "The parameters marked with an * are not accredited by NABL", BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit.

***** End of Report *****

Checked By ,

(J.P.D.)
(Chemist)

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Checked By

(Sr. Chemist)

Approved By

(Technical Manager)
UERL/CHM/F-2/02

TEST REPORT

Report No.	URC /19/02/EL-0122	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Khoda (GWS) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0122			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	--	7.5
2.	Temperature	IS 3025(Part 9)1984	°C	32
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	6.6
4.	Odour	IS 3025(Part 5)1983	-	Unobjectionable
5.	*Taste	IS 3025(Part 7)1984	-	Agreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	1.3
7.	Total Dissolved Solids	(APHA 23 rd Ed., 2017, 2540-C), IS 3025(Part 16)1984	mg/L	237
8.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-D),	mg/L	34.0
9.	Total Solids	IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-B),	mg/L	271
10.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	378
11.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B),	mg/L	3.6
12.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	267
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009,Amd.1]	mg/L	221
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	141
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	80
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na.B	mg/L	205
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K.B	mg/L	6.3
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	21
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	75
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	378
21.	Sulphate as SO ₄ ⁻²	IS 3025(Part 24)1986	mg/L	69
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.82
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	8.9
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F,D)	mg/L	0.68
26.	*Boron as B	IS 13428 Annexure - H	mg/L	0.18
27.	Total Arsenic as As	APHA 23 rd Ed., 2017, 3114-C	mg/L	BDL(MDL:0.01)
28.	Cyanide as CN	IS 3025(Part 27)1986	mg/L	BDL(MDL:0.05)

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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.
CIN:U73100GJ2907PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0122	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Khoda (GWS) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0122			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
29.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.1)
30.	Manganese as Mn	APHA 23 rd Ed.,2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
31.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.01)
32.	Copper as Cu	IS 3025(Part 42)1992amd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
34.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)

Note: *The parameters marked with an *are not accredited by NABL*, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By
(Signature)
(Chemist)

Page 2 of 2

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(Signature)
(Sr. Chemist)

Approved By
(Signature)
(Technical Manager)
UERL/CHM/F-2/02

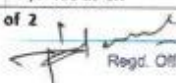
TEST REPORT

Report No.	URC /19/02/EL-0123	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Charai (GW6) Water Sample	Sample Qty.	5-lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0123			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	--	7.4
2.	Temperature	IS 3025(Part 9)1984	°C	31
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	5.8
4.	Odour	IS 3025(Part 5)1983	-	Unobjectionable
5.	*Taste	IS 3025(Part 7)1984	-	Agreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	1.2
7.	Total Dissolved Solids	(APHA 23 rd Ed., 2017, 2540- C), IS 3025(Part 16)1984	mg/L	255
8.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540 -D),	mg/L	28.0
9.	Total Solids	IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540 -B),	mg/L	283
10.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	402
11.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B),	mg/L	3.4
12.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	284
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009,Amd.1]	mg/L	212
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	133
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	79
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na,B	mg/L	221
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K,B	mg/L	5.2
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	25
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	58
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	392
21.	Sulphate as SO ₄ ⁻²	IS 3025(Part 24)1986	mg/L	70.5
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.61
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	3.2
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500-F,D)	mg/L	0.55
26.	*Boron as B	IS 13428 Annexure - H	mg/L	0.23
27.	Total Arsenic as As	APHA 23 rd Ed., 2017, 3114-C	mg/L	BDL(MDL:0.01)
28.	Cyanide as CN	IS 3025(Part 27)1986	mg/L	BDL(MDL:0.05)

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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.

CIN:U73100GJ2007PTC051463

UERL/CHM/F-2/02

TEST REPORT

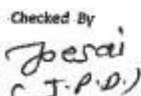
Report No.	URC /19/02/EL-0123	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Charai (GW6) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0123			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
29.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.1)
30.	Manganese as Mn	APHA 23 rd Ed.,2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
31.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.01)
32.	Copper as Cu	IS 3025(Part 42)1992amd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
34.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)

Note: The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By

(Chemist)

Page 2 of 2

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(Sr. Chemist)

Approved By

(Technical Manager)
UERL/CHM/F-2/02

3 Noise monitoring



White House,
Near G.I.D.C. Office, Char Rasta,
Vapi-396 195, Gujarat, India.
Phone : +91 260 2433966 / 2425610
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986(12.01.2015 to 11.01.2020)

QCINABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

OHSAS 18001:2007
Certified Company

ISO 9001:2015
Certified Company

AMBIENT NOISE LEVEL MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February – 2019

Code	Sampling Location	Date	Category	Day Time		Night Time	
				Recorded level dB(A) L_{eq}	Limits in dB(A) L_{eq}	Recorded level dB(A) L_{eq}	Limits in dB(A) L_{eq}
N1	Project Site	1-12-2018 to 2-12-2018	Industrial Area	58.0	75.0	54.1	70.0
N2	Bol	4-12-2018 to 5-12-2018	Residential	50.7	55.0	43.1	45.0
N3	Charal	5-12-2018 to 6-12-2018	Residential	52.7	55.0	42.7	45.0
N4	Shiyavada	6-12-2018 to 7-12-2018	Residential	50.7	55.0	41.3	45.0
N5	Khoda	7-12-2018 to 8-12-2018	Residential	52.2	55.0	43.9	45.0
N6	Kunvar	10-12-2018 to 11-12-2018	Residential	51.8	55.0	42.3	45.0
N7	Rupavati	03-12-2018 to 4-12-2018	Residential	47.5	55.0	42.9	45.0

Checked By:

(Chemist) / (Supervisor)

Tested By:

(Chemist) / (Sr. Chemist)

Approved By:

(Manager – Operations.)

Regd. Office : 215, Royal Arcade, Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahe-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TRAFFIC NOISE LEVEL MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February – 2019

Sampling Location	Monitoring Date	Time	Noise Level in dBA	
			10 m from Edge of The Road	20 m From Edge of The Road
NH-947 Towards Ahmedabad/Towards Viramgam	11-12-2018 to 12-12-2018	Day	56.8	54.9
		Night	52.4	50.7

Checked By:

(Signature)
(Chemist) / (Supervisor)

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)

Approved By:

(Signature)
(Manager – Operations.)

Regd. Office : 215, Royal Arcade, Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463



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QCINABET Accredited EA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2007
Certified Company

ISO 9001:2015
Certified Company

TEST REPORT

Report No.	URC /19/02/EL-0083	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Project Site (S1) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019
UERL Lab Sample ID.No. 19/02/EL-0083			

TEST RESULTS

Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	42.0
	Silt	%	31.0
	Clay	%	27.0
2.	Texture Class	Qualitative	Sandy Loam
3.	*Bulk Density	g/cc	1.5
4.	*Porosity	%	43
5.	*Water Holding Capacity	%	51
6.	Organic Carbon(OC)	%	0.76
7.	Potassium as K	mg/kg	198
8.	*Calcium as Ca	mg/kg	108.4
9.	*Magnesium as Mg	mg/kg	59.9
10.	Sodium as Na	mg/kg	31.9
11.	Cation Exchange Capacity	meq/100gm	10.2
12.	pH	--	7.5
13.	Electrical Conductivity	µS/cm	595
14.	Available Nitrogen	mg/kg	38.1
15.	Available Potassium	mg/kg	5.30
16.	*Available Phosphorous	mg/kg	12.1
17.	Moisture Content	%	6.6
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	8.90
20.	SAIR	--	3.5
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit.

***** End of Report *****

Checked By:
Jesal
(J.P.D.)
(Chemist)

Tested By
(R.R.)
(N.R.)
(Sr. Chemist)

Approved By
(J.P.D.)
(Technical Manager)
UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dahaji, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0084	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Hirapur (S2) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019

UERL Lab Sample ID.No. 19/02/EL-0084

TEST RESULTS

Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	29.0
	Silt	%	30.0
	Clay	%	41.0
2.	Texture Class	Qualitative	Clay
3.	*Bulk Density	g/cc	1.3
4.	*Porosity	%	45
5.	*Water Holding Capacity	%	53
6.	Organic Carbon(OC)	%	0.8
7.	Potassium as K	mg/kg	202
8.	*Calcium as Ca	mg/kg	123.9
9.	*Magnesium as Mg	mg/kg	70.4
10.	Sodium as Na	mg/kg	52.4
11.	Cation Exchange Capacity	meq/100gm	12.8
12.	pH	-	8.2
13.	Electrical Conductivity	µS/cm	781
14.	Available Nitrogen	mg/kg	47.2
15.	Available Potassium	mg/kg	42.30
16.	*Available Phosphorous	mg/kg	2.6
17.	Moisture Content	%	6.3
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	5.20
20.	SAR	--	3.1
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By
Jesca
(J.P.D.)
(Chemist)

Page 1 of 1

Tested By
(N.P.L.)
(Sr. Chemist)

Approved By
(J.P.D.)
(Technical Manager)
UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dshe-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

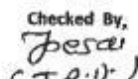
Report No.	URC /19/02/EL-0085	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Goraj (S3) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019
UERL Lab Sample ID.No. 19/02/EL-0085			

TEST RESULTS

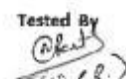
Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	36
	Silt	%	30
	Clay	%	34
2.	Texture Class	Qualitative	Sandy Clay
3.	*Bulk Density	g/cc	1.5
4.	*Porosity	%	48
5.	*Water Holding Capacity	%	40
6.	Organic Carbon(OC)	%	0.81
7.	Potassium as K	mg/kg	182
8.	*Calcium as Ca	mg/kg	96.7
9.	*Magnesium as Mg	mg/kg	65.8
10.	Sodium as Na	mg/kg	40.6
11.	Cation Exchange Capacity	meq/100gm	13.1
12.	pH	--	7.9
13.	Electrical Conductivity	µS/cm	640
14.	Available Nitrogen	mg/kg	50.2
15.	Available Potassium	mg/kg	5.0
16.	*Available Phosphorous	mg/kg	3.5
17.	Moisture Content	%	7.8
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	6.00
20.	SAR	--	2.8
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By,

(Chemist)

Page 1 of 1

Tested By

(Sr. Chemist)

Approved By

(Technical Manager)
UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

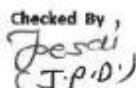
Report No.:	URC /19/02/EL-0086	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Zolapur (S4) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us,	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019
UERL Lab Sample ID.No. 19/02/EL-0086			

TEST RESULTS

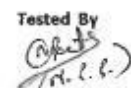
Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	41
	Silt	%	30
	Clay	%	29
2.	Texture Class	Qualitative	Sandy Loam
3.	*Bulk Density	g/cc	1.7
4.	*Porosity	%	42
5.	*Water Holding Capacity	%	56
6.	Organic Carbon(OC)	%	0.67
7.	Potassium as K	mg/kg	210
8.	*Calcium as Ca	mg/kg	105
9.	*Magnesium as Mg	mg/kg	56.1
10.	Sodium as Na	mg/kg	37.1
11.	Cation Exchange Capacity	meq/100gm	8.9
12.	pH	--	8.1
13.	Electrical Conductivity	µS/cm	780
14.	Available Nitrogen	mg/kg	60.7
15.	Available Potassium	mg/kg	31.8
16.	*Available Phosphorous	mg/kg	10.8
17.	Moisture Content	%	5.1
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	7.10
20.	SAR	--	3.0
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By,

(Chemist)

Page 1 of 1

Tested By

(Sr. Chemist)

Approved By

(Technical Manager)
UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dsahj-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

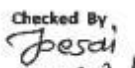
Report No.	URC /19/02/EL-0087	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Rupavati (S5) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019
UERL Lab Sample ID. No. 19/02/EL-0087			

TEST RESULTS

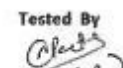
Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	32
	Silt	%	30
	Clay	%	38
2.	Texture Class	Qualitative	Clay
3.	*Bulk Density	g/cc	2.1
4.	*Porosity	%	40
5.	*Water Holding Capacity	%	59
6.	Organic Carbon(OC)	%	0.65
7.	Potassium as K	mg/kg	163
8.	*Calcium as Ca	mg/kg	99.7
9.	*Magnesium as Mg	mg/kg	68.3
10.	Sodium as Na	mg/kg	48.5
11.	Cation Exchange Capacity	meq/100gm	9.6
12.	pH	--	7.3
13.	Electrical Conductivity	µS/cm	820
14.	Available Nitrogen	mg/kg	54.2
15.	Available Potassium	mg/kg	45.5
16.	*Available Phosphorous	mg/kg	3.1
17.	Moisture Content	%	6.9
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	9.3
20.	SAR	--	2.4
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By,

(Chemist)

Page 1 of 1

Tested By

(Sr. Chemist)

Approved By

(Technical Manager)

UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051453

45

TEST REPORT

Report No.	URC/19/02/EL-0088	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Boi (S6) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019

UERI Lab Sample ID.No. 19/02/EL-0088

TEST RESULTS

Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	42
	Silt	%	34
	Clay	%	24
2.	Texture Class	Qualitative	Sandy Loam
3.	*Bulk Density	g/cc	1.6
4.	*Porosity	%	41
5.	*Water Holding Capacity	%	49
6.	Organic Carbon(OC)	%	0.78
7.	Potassium as K	mg/kg	179
8.	*Calcium as Ca	mg/kg	116.5
9.	*Magnesium as Mg	mg/kg	60.7
10.	Sodium as Na	mg/kg	42.6
11.	Cation Exchange Capacity	meq/100gm	11.7
12.	pH	-	8.6
13.	Electrical Conductivity	µS/cm	856
14.	Available Nitrogen	mg/kg	23.9
15.	Available Potassium	mg/kg	52.1
16.	*Available Phosphorous	mg/kg	9.6
17.	Moisture Content	%	15.0
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	6.40
20.	SAR	-	3.1
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By
Jesal
(J.P.D.)
(Chemist)

Page 1 of 1

Tested By
Pratik
(P.P.)
(Sr. Chemist)

Approved By
[Signature]
(T.M.)
(Technical Manager)

UERI/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0089	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kalana (S7) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019
UERL Lab Sample ID.No. 19/02/EL-0089			

TEST RESULTS

Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	31
	Silt	%	35
	Clay	%	34
2.	Texture Class	Qualitative	Clay Loam
3.	*Bulk Density	g/cc	1.7
4.	*Porosity	%	43
5.	*Water Holding Capacity	%	55
6.	Organic Carbon(OC)	%	0.71
7.	Potassium as K	mg/kg	184
8.	*Calcium as Ca	mg/kg	130
9.	*Magnesium as Mg	mg/kg	74.8
10.	Sodium as Na	mg/kg	39.4
11.	Cation Exchange Capacity	meq/100gm	10.5
12.	pH	--	7.6
13.	Electrical Conductivity	µS/cm	570
14.	Available Nitrogen	mg/kg	41.7
15.	Available Potassium	mg/kg	35.9
16.	*Available Phosphorous	mg/kg	4.2
17.	Moisture Content	%	19.1
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	4.80
20.	SAR	--	2.9
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By
Jesai
(J.P.D.)
(Chemist)

Tested By
Chait
(N.P.E.)
(Sr. Chemist)

Approved By
Chait
(J.P.D.)
(Technical Manager)
UERL/CHM/F-2/02

Page 1 of 1

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Extended Work Office : G.I.D.C., Dahe-J-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0090	Date Of Report	11/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Naranpura (S8) Soil Sample	Sample Qty.	2 Kg.
Sampling Date	06/02/2019	Sample Received Date	06/02/2019
Sampled By	Us.	Appearance Of Sample	Brown Colour
Test Started Date	06/02/2019	Test Completion Date	10/02/2019

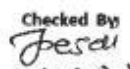
UERL Lab Sample ID.No. 19/02/EL-0090

TEST RESULTS

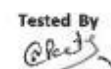
Sr. No.	Parameters	Unit Of Measurement	Results
1.	*Particle Size Distribution		
	Sand	%	36
	Silt	%	34
	Clay	%	30
2.	Texture Class	Qualitative	Sandy Loam
3.	*Bulk Density	g/cc	2
4.	*Porosity	%	46
5.	*Water Holding Capacity	%	53
6.	Organic Carbon(OC)	%	0.77
7.	Potassium as K	mg/kg	212
8.	*Calcium as Ca	mg/kg	124
9.	*Magnesium as Mg	mg/kg	62.5
10.	Sodium as Na	mg/kg	45.6
11.	Cation Exchange Capacity	meq/100gm	12.3
12.	pH	—	7.4
13.	Electrical Conductivity	µS/cm	640
14.	Available Nitrogen	mg/kg	36.1
15.	Available Potassium	mg/kg	23.6
16.	*Available Phosphorous	mg/kg	3.7
17.	Moisture Content	%	10.8
18.	Boron as B	mg/kg	BDL(MDL:0.5)
19.	Lead as Pb	mg/kg	7.10
20.	SAR	—	3.2
21.	Iron as Fe	mg/kg	BDL(MDL:1.0)
22.	Nickel as Ni	mg/kg	BDL(MDL:1.0)

Note: *The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, MDL = Minimum Detection Limit,

***** End of Report *****

Checked By

(J.P.D.)
(Chemist)

Page 1 of 1

Tested By

(Sr. Chemist)

Approved By

(Technical Manager)
UERL/CHM/T-2/02

Regd. Office : 215, Royal Arcade, Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dabheji-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051483



HEALTH, SAFETY & ENVIRONMENTAL POLICY



The Woodbridge Group believes that protection of the health and safety of our teammates and the natural environment is of utmost concern in the operation of our business. This policy applies to all Woodbridge locations and Joint Venture locations where Woodbridge is the managing partner.

It is the policy of The Woodbridge Group to:

- Actively pursue process innovation and fundamental research to prevent environmental pollution through the reduction and elimination of all forms of waste from our operations, including the reduction of energy consumption and the resultant release of greenhouse gas emissions.
- Routinely review and assess our operations for the purpose of making health, safety and environmental improvements beyond those legally required, where such enhancements provide significant benefits.
- Comply with all Woodbridge HS&E Management System requirements, applicable laws, regulations and standards in its product development, manufacturing, marketing and distribution activities.

Using the established strategies, each facility is responsible for the development of annual health, safety and environmental goals, and the implementation of action plans in accordance with our corporate performance standards. Each facility will provide routine progress reports to ensure that its operations comply with this policy.




The Woodbridge Group will provide the necessary support and resources as its commitment to the goals and objectives of this policy.

This policy is posted in each facility reception area, in appropriate areas of each plant, and on the company Internet and Intranet sites. Our teammates through effective participation are an integral element in ensuring continual improvement in workplace health and safety, and the prevention of environmental pollution. To support their participation, we document and maintain an integrated health, safety and environmental system. ”




Charles Daly
President and Chief Executive Officer
The Woodbridge Group

Paul McKay
Sr. Vice President, Human Resources
Worldwide
The Woodbridge Group




Dan Dubblestyn
Director HS&E
The Woodbridge Group

<p>Woodbridge Foam Pvt. Ltd. Plot No. PE-44, BOL, GIDC, Sanand Phase II Industrial Estate, Sanand, Ahmedabad – 382170. Gujarat, India</p> <p>Phone: +91 9228024942</p> <p>www.woodbridgegroup.com</p> <p>CIN : U25206DL2006PTC152496</p> <p>Reg. Office : Woodbridge Foam Pvt. Ltd. 1005, Roots Tower, Plot No. 7, District Centre,, Laxmi Nagar, Delhi - 110092, Delhi, INDIA</p> 	<div data-bbox="432 371 895 461"> THE WOODBRIDGE GROUP™ Mastering Science To Serve Our Customers™</div> <div data-bbox="544 568 1190 600"><p><u>UNDERTAKING FOR NO UNDERGROUND DRAINAGE CONNECTION</u></p></div> <p>I, Sandeep Akolkar, Plant Manager of Woodbridge Foam Private Limited willing to submit this undertaking with respect to the Terms of References (ToR) prescribed by SEAC, Gujarat vide letter no. SEIAA/GUJ/TOR/5(f)/666/2018 dated 30/06/2018 for the proposed Moulded Polyurethane Cushions/Seats Manufacturing Unit located at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat.</p> <p>This is to assure that underground drainage connection will not be taken in the unit for industrial effluent. We shall have underground drainage connection only for domestic drainage system to septic tank and for soak pit.</p> <p>Date: <u>10 / 06 / 2019</u> Place: Sanand</p> <p>For, M/s. Woodbridge Foam Private Limited</p> <p> Sandeep Akolkar Plant Manager</p> <p><small>The Woodbridge Group is the registered trademark and Mastering Science To Serve Our Customers is a trade mark of Woodbridge Foam Corporation.</small></p>
--	--

ANNEXURE VI UNDERTAKING FOR BOREWELL

<p>Woodbridge Foam Pvt. Ltd. Plot No. PE-44, BOL, GIDC, Sanand Phase II Industrial Estate, Sanand, Ahmedabad – 382170. Gujarat, India</p> <p>Phone: +91 9228024942</p> <p>www.woodbridgegroup.com</p> <p>CIN : U25206DL2006PTC152496</p> <p>Reg. Office : Woodbridge Foam Pvt. Ltd. 1005, Roots Tower, Plot No. 7, District Centre,, Laxmi Nagar, Delhi - 110092, Delhi, INDIA</p>	<div data-bbox="438 336 917 436">THE WOODBRIDGE GROUP™ Mastering Science To Serve Our Customers™</div> <div data-bbox="694 548 1061 593"><p align="center"><u>UNDERTAKING FOR NO BORE WELL</u></p></div> <p>I, Sandeep Akolkar, Plant Manager of Woodbridge Foam Private Limited willing to submit this undertaking with respect to the Terms of References (ToR) prescribed by SEAC, Gujarat vide letter no. SEIAA/GUI/TOR/5(f)/666/2018 dated 30/06/2018 for the proposed Moulded Polyurethane Cushions/Seats Manufacturing Unit located at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat.</p> <p>The source of water supply with adequacy of the same to meet with the requirement for the project is assured by the GIDC for supply of raw water. So M/s. Woodbridge Foam Private Limited is undertaking that we will not dig bore well within our factory premises.</p> <p>Here in above stated is true and correct to the best of my knowledge and the same I believed to be true.</p> <p>Date: <u>10 / 06 / 2019</u> Place: Sanand</p> <div data-bbox="853 1254 1316 1433"><p>For, M/s. Woodbridge Foam Private Limited</p><p>Sandeep Akolkar Plant Manager</p></div> <div data-bbox="239 1388 406 1556"></div> <div data-bbox="414 1937 1372 1982"><p><small>The Woodbridge Group is the registered trademark and Mastering Science To Serve Our Customers is a trade mark of Woodbridge Foam Corporation.</small></p></div>
--	--

ANNEXURE VII UNDERTAKING FOR ZERO EFFLUENT GENERATION AND ZLD

<p>Woodbridge Foam Pvt. Ltd. Plot No. PE-44, BOL, GIDC, Sanand Phase II Industrial Estate, Sanand, Ahmedabad - 382170. Gujarat, India</p> <p>Phone: +91 9228024942</p> <p>www.woodbridgegroup.com</p> <p>CIN : U25206DL2006PTC152496</p> <p>Reg. Office : Woodbridge Foam Pvt. Ltd. 1005, Roots Tower, Plot No. 7, District Centre,, Laxmi Nagar, Delhi - 110092, Delhi, INDIA</p> 	<div data-bbox="438 369 917 470">THE WOODBRIDGE GROUP™ Mastering Science To Serve Our Customers™</div> <div data-bbox="574 582 1181 616"><u>UNDERTAKING FOR ZERO EFFLUENT GENERATION AND ZLD</u></div> <p>I, Sandeep Akolkar, Plant Manager of Woodbridge Foam Private Limited willing to submit this undertaking with respect to the Terms of References (ToR) prescribed by SEAC, Gujarat vide letter no. SEIAA/GUI/TOR/5(f)/666/2018 dated 30/06/2018 for the proposed Moulded Polyurethane Cushions/Seats Manufacturing Unit located at Plot No. PE-44, BOL, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat.</p> <p>M/s. Woodbridge Foam Private Limited undertaking that unit will maintain Zero Liquid Discharge concept as there will be no generation of any industrial effluent from any industrial activities or ancillary operations.</p> <p>Date: <u>10 / 06 / 2019</u></p> <p>Place: Sanand</p> <p>For, M/s. Woodbridge Foam Private Limited</p> <p> Sandeep Akolkar Plant Manager</p> <p><small>The Woodbridge Group is the registered trademark and Mastering Science To Serve Our Customers is a trade mark of Woodbridge Foam Corporation.</small></p>
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A-65

[illegible]

STATION : Ahmedabad

A-66

(C) WATER CONSUMPTION AND WASTEWATER GENERATION:

Sr. No.	Particular	Water Consumption (kL/d)
2.	Domestic	3.8
3.	Gardening	1.5
4.	Industrial	
a.	Process	0.2
Total Industrial		0.2
Grand Total		5.5

Sr. No.	Particular	Wastewater Generation (kL/d)	Mode of Disposal
1	Domestic	3.04	Septic tank/ Soak pit
2	Industrial		There will be no wastewater generation from Industrial process
a.	Process	-	
Total Industrial		-	
Grand Total		3.04	

- Details of water balance diagram is attached as per **Annexure-I**.
- Manufacturing Process is attached as per **Annexure-II**.



(D) SOURCE OF EMISSION AND AIR POLLUTION CONTROL MEASURES (APCM)**SOURCE OF FLUE GAS EMISSION AND APCM:**

Item	Capacity & Quantity	Stack Height (m)	APCM	Permissible Limit
Oven-1	21 MMBTUper Oven burner	15	Adequate stack height	$PM \leq 150 \text{ mg/m}^3$ $SO_2 \leq 100 \text{ ppm}$ $NO_x \leq 50 \text{ ppm}$
Oven-2	21 MMBTUper Oven burner	15	Adequate stack height	
DG Set (kVA) Stand by	250	7	Adequate stack height	

SOURCE OF PROCESS GAS EMISSION AND APCM:

Item	Stack Height (m)	APCM	Permissible Limit
Hot Air Vent-1	12	Adequate stack height	$PM \leq 150 \text{ mg/m}^3$
Hot Air Vent-2			
Hot Air Vent-3			
Hot Air Vent-4			



(E) HAZARDOUS WASTE GENERATION AND MODE OF DISPOSAL


Sr. No.	Waste	Source	Category	Quantity (MT/Annum)	Mode of Disposal
1	Used oil	D.G operation	5.1	0.1	Collection storage, transportation, and sell to registered re-processor or reuse in premises
2	Wastes residues	Process	23.1	2.5	Collection storage, transportation, and disposal at CHWIF
3	Discarded Containers/ barrels/ linears	Raw material & Product storage	33.1	2.5	Collection storage, transportation, and disposal at approved decontamination facility

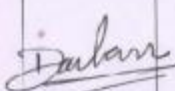
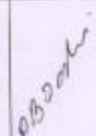
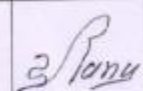



Based on studies and observation, We certify that the Environmental Management System provided by the industry for the products and capacity as stated above is also adequate to meet with the permissible norms in respect of Air - Solid waste as prescribed/as required by Gujarat Pollution Control Board, Gandhinagar and proposed industry is zero effluent generating unit.

This certificate is subject to automatic cancellation in case of any change in product profile/capacity, quality & quantity of effluents (Air + Water + Solid) and efficiency of EMS equipment then what is stated above.

Date: 23/05/2019


Mr. Vyom B. Pathak
(Head of Laboratory)

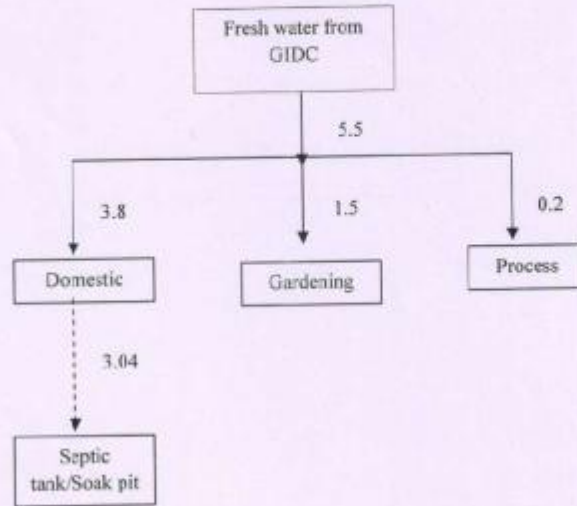
Audit Team member	Signature
Mr. Darshan D. Unadkat B.E (Env.) Environmental Engg.	
Mr. Pranav B. Joshi B.E (Chem.), Chemical Engg.	
Mr. Satish B. Rana B. Sc (Chemistry) Chemist	
Mr. Anish J. Solanki B. Sc, M.Sc (Organic Chemistry) Chemist	

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ANNEXURE- I
WATER BALANCE DIAGRAM



Note: All Values are in KLD

————— Water
----- Wastewater



ANNEXURE-II
MANUFACTURING PROCESS

Moulded polyurethane cushions / Seats**A. Manufacturing Process****Polyurethane Foam:**

Polyurethane foam has two main types: Ester and Ether based. Their properties can be varied in accordance with market requirements. Polyurethanes are produced by reacting an Isocyanate containing two or more Isocyanate groups per molecule with a Polyol containing on average two or more Hydroxyl groups per molecule in the presence of a catalyst or by activation with ultraviolet light.

Polyol are mixed together along with additives in a large container. The additives are measured in proportions and then added. This mixture is churned properly using a blender which mixes all the chemicals together. The agitation time for the mixture takes about 40-50 minutes. This mixture is then pumped to the surge tanks for the next process.

Applications:

- When Resin S is added in the mixture, owing to its softness improving property it is used for the manufacture of pillows. (Hardness is approximately 75N)
- When Resin L is added, hardness is improved leading to its usage in automotive cushion (Hardness is approximately 350-400N) and Seat Back Foam pads. (Hardness is approximately 200-250N)

Pre-Heating of Chemicals:

The Isocyanate is transferred to the surge tanks from the storage tanks. The mixture of polyol and additives are pumped to different surge tanks depending on the resin used. Depending on the viscosity of the chemicals, temperature and pressure are adjusted in such a way that the chemicals can mix properly at the pour head.

Pouring in the Mould:

A robotic arm having a pour head mixes the isocyanate and polyol together and pours into the mould. The movement and functions of the pour head is controlled by software. Software called Robotic Filing System (RFS) is used to control the functions of the pour head. Second software named Mould Filing System (MFS) allows the control of the individual molds' position, temperature, and pouring layout. Wonderware is the third software which helps in monitoring the production line speed, Target & Actual Weight of the material poured, pressure & temperature level.



Robotic Filing System gives inputs to the pour head regarding pouring pattern. This input allows the synchronization of the production line speed with the pouring head. The Input lets the residue of the mixture at the tip of the pour head to be cleaned by a burst of air.

Mould Filing System allows the user to input the data of each mould like its part number, position on the production line, pouring time, and temperature of the mould.

Oven Curing:

The Mould passes through an oven where it is cured for about 4 to 5min. During this process the foam is formed by the chemical reaction of Isocyanate and Polyol mixed with additives. During the foam molding process, the chemical reaction of foam forming creates and releases gases. In order to allow the foam to grow and fill the tool properly, various venting technologies can be applied. Below are some of the venting technologies used,

- Ribbon Vents
- Channel Vents
- Slot Vents
- Through Hole Vents

Demoulding & Cleaning of the Mould:

After the curing process is finished the mould lid is opened and the foam is removed manually from mould. Using air pressure the mould is cleaned properly ensuring no foam sticks to the lid or bowl. Then a release agent made of liquid wax is sprayed on the mould. After this Wire Inserts, Cloth (like Corovin and Needle punch) and Velcro are positioned in the mould. The mould is then sent for the pouring process.

Crushing:

Foam which is demolded is immediately passed through a crusher. This releases the trapped gases within the foam to the outside. By this shape of the foam is maintained. If the foam is not crushed within four minutes, it affects the foam shape by inducing shrinkage.

There are two types of Crusher used,

- Roller Crusher:

Foam which does not contain any wire inserts are passed through the rollers. The gap between the two rollers is maintained according to the foam size. For Example Front Cushion and Seat Back.



- Vacuum Crusher:

Foam which contain the wire inserts are passed through this type of crusher. Foam passes through a chamber where air and gases is sucked to create a vacuum. Then air is released in the chamber and the process is repeated for 4 to 5 times. This removes the trapped gases within the foam.

Trimming:

The flashes are trimmed manually using a trimmer and then sent to Inspection.

Inspection:

Foam pad is inspected for any damages. If the foam pad is ok, it is date stamped and sent to dispatch. If it is not, then it is sent to the repair station for repairs. If the damage is irreparable then the foam pad is rejected.

General criteria for acceptance of part:

- Insert wire must be visible in the hog ring window. Insert wire should not shift from hog ring window.
- Repair is not permitted in ILD area.
- Repair should match the surface contour of the pads.
- Voids that affect the functional area (trenches and profile) must be repaired.

Repairing:

If the part is not ok in inspection it is sent to repair station. Repair is followed as below,

- RSB (Rear Seat Back):

5 repairs on each surface are allowed with a maximum size of 120x120mm.

- RSC (Rear Seat Cushion):

5 repairs on each surface are allowed with maximum size of 120x120mm.

All B surface hog ring should clean.

- FSB (Front Seat Back):

4 repairs on each surface is allowed with a maximum size of 80x80mm.

No repairs required for tearing and voids under the marked line.

- FSC (Front Seat Cushion):

4 repairs on each surface are allowed with maximum size of 100x100mm.

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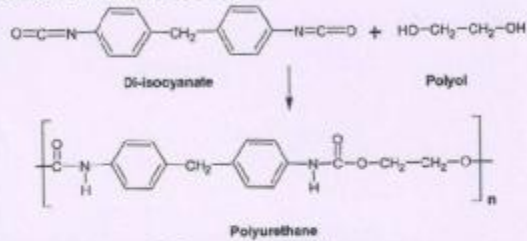


Void at the corner (Marked) is allowed. The part which has undergone repair is again sent to Inspection. If the part is OK at the Inspection it is then dispatched.

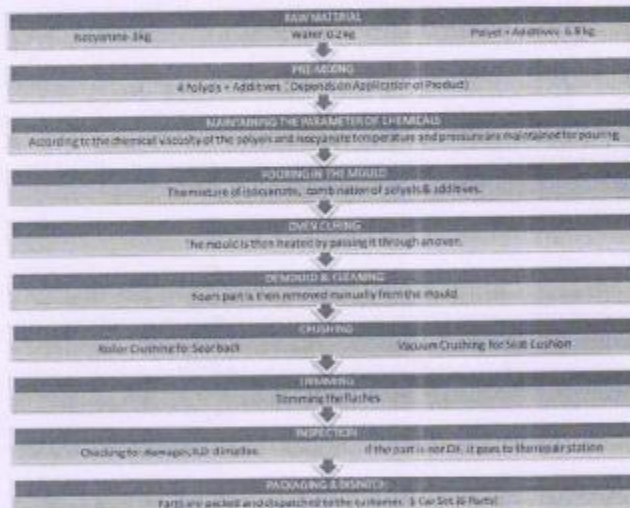
Packaging & Dispatch:

An Anti-Squeak spray is applied on the B-Surface of the foam for minimizing the noise when the foam comes in contact with the seat frame assembly. The spraying areas depend on customer needs. Then the Foam pads are stacked in trolleys. Trolleys are then dispatched to the customer.

B. Chemical Structure of Product



C. Material Balance & Process Flow Diagram



Material Balance

Raw material	kg	Finish product	Nos.	kg
Poly & Additives	6.8	Car Sets (6 parts)	1	10
Water	0.2			
ISO	3			
Total	10			


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ANNEXURE-IV
INSTITUTE RECOGNITION

 **GUJARAT POLLUTION CONTROL BOARD**
Paryavaran Bhavan
Sector - 10 A, Gandhinagar - 382 010.
Environment Audit Cell

No. GPCB/EA-238-B/ 2143212 | 3 FEB 2013 RPAD

To,
Civil Engineering Department
Sitarambhai Naranji Patel Institute of Technology & Research Centre,
At & Post Umrakh - 394 345,
Taluka - Bardoli,
Dist -Surat.

Sub:- Recognition as Schedule- I Environmental Auditor.

Sir,

This refers to your application for the recognition as Environmental Auditor, subsequent interview and visit of your Laboratory by Environment Audit Committee members. It is recommended by the Environment Audit Committee members, to recognize your firm as Schedule-I Environmental Auditor for carrying out the Environmental Audit under Environment Audit Scheme with following conditions.

- 1) Recognition is valid upto 31/12/2019.
- 2) You shall have maximum One team for the Environment Audit.
- 3) You shall carry out maximum 15 nos. of Environment Audit.
- 4) Team members shall be as under:

Sr. No.	Name	Designation
1	Mr. Darshan Unadkat	Environment Engineer
2	Mr. Pranav Joshi	Chemical Engineer
3	Mr. Satish Rana	Chemist
4	Mr. Anish Solanki	Microbiologist

- 5) You shall prepared and submit the Environment Audit report and to comply the conditions for Environment Auditors as per the Hon'ble High Court order dated 20/12/1996, 13/03/1997, 16/09/1999, and also the Guidelines prepared by Gujarat Pollution Control Board in this regard, for the Environment Audit Scheme along with the Adequacy and Efficacy certificates as per prescribed format.
- 6) Environment Audit Report shall be submitted in prescribed format.
- 7) You shall apply for renewal of Environmental Auditor 3 months before expiry of the recognition with the scrutiny fees to this Board.

(PT.0)

Clean Gujarat Green Gujarat
An ISO 9001: 2008 & ISO 14001: 2004 Certified Organization

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ANNEXURE X CONSERVATION PLAN FOR SCHEDULE-I SPECIES

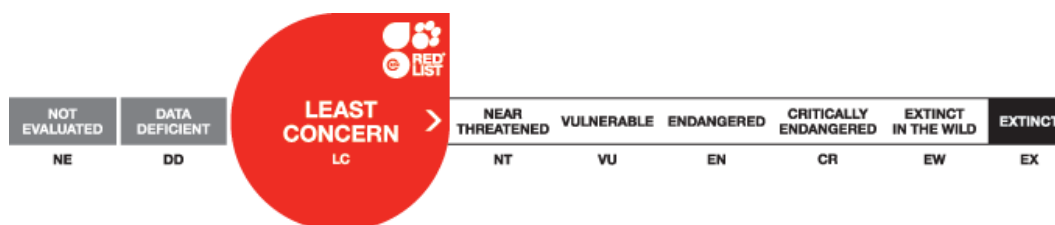
Conservation Measures for schedule- I fauna

Only two fauna that falls under the scheduled-I category was reported from the study area Peacock or Indian peafowl (*Pavo cristatus*) and Eurasian Spoonbill (*Platalea leucorodia*). The rest of the fauna reported from the study area, falls under either in schedule-II, Schedule-III or Schedule-IV of the wild Life Protection Act 1972. Most of these species are not conservation dependent in Gujarat, and they are proliferating itself in its own habitats. Few of them like Nilgai and have become threat to the farmers as they are invading their crops very frequently in this region. Hence conservation measures are not provided for these animals

Conservation Measures for Peacock or Indian peafowl (*Pavo cristatus*) Schedule –I bird species

Protection Status:

IUCN



National:

The species receives theoretical protection under the Indian Wildlife (Protection) Act, Schedule I [highest order of protection] of 1972



Peacock or Indian peafowl (*Pavo cristatus*) is a very familiar bird of Gujarat also recognized as National Bird of India. The male peacock is predominantly blue with a fan-like crest of spatula-tipped wire-like

feathers and is best known for the long train made up of elongated upper-tail; these stiff and elongated feathers are raised into a fan and quivered in a display during courtship. The female lacks this feathers.

Description:

The male, known as a peacock, is a large bird with a length from bill to tail of 100 to 115 cm (40 to 46 inches) and to the end of a fully grown train as much as 195 to 225 cm (78 to 90 inches) and weigh 4–6 kg. The females, or peahens, are smaller at around 95 cm (38 inches) in length and weigh 2.75–4 kg. Indian Peafowl are among the largest and heaviest representatives of the Phasianidae family. Their size, colour and shape of crest make them unmistakable within their native distribution range. The male is metallic blue on the crown, the feathers of the head being short and curled. The fan-shaped crest on the head is made of feathers with bare black shafts and tipped with blush-green webbing. A white stripe above the eye and a crescent shaped white patch below the eye are formed by bare white skin. The sides of the head have iridescent greenish blue feathers. The back has scaly bronze-green feathers with black and copper markings. The scapular and the wings are buff and barred in black, the primaries are chestnut and the secondaries are black. The tail is dark brown and the "train" is made up of elongated upper tail coverts (more than 200 feathers, the actual tail has only 20 feathers) and nearly all of these feathers end with an elaborate eye-spot. A few of the outer feathers lack the spot and end in a crescent shaped black tip. The underside is dark glossy green shading into blackish under the tail. The thighs are buff coloured. The male has a spur on the leg above the hind toe.

Peacocks are polygamous, and the breeding season is spread out but appears to be dependent on the rains. Several males may congregate at a lek site and these males are often closely related. Males at lek appear to maintain small territories next to each other and they allow females to visit them and make no attempt to guard harems. Females do not appear to favour specific males.

Peafowl are omnivorous and eat seeds, insects, fruits, and reptiles. A large percentage of their food is made up of the fallen berries. Around cultivated areas; peafowl feed on a wide range of crops such as groundnut, tomato, paddy, etc. Around human habitations, they feed on a variety of food scraps. In the countryside, it is particularly partial to crops and garden plants

Habitat:

The Indian Peafowl is found mainly on the ground in open scrub forest or on land under cultivation where they forage for berries, grains but will also prey on snakes, lizards, and small rodents. Their loud calls make them easy to detect, and in forest areas often indicate the presence of a predator such as a tiger. They forage on the ground in small groups and will usually try to escape on foot through undergrowth and avoid flying, though they will fly into tall trees to roost. The bird has a celebrated status in Indian mythology, and hence protected culturally in India especially in Gujarat. The Indian Peafowl is listed as Least Concern by IUCN (2014) Red data.

Threats in the Study Area

No perceptible threats were identified in the villages surveyed. Village residents are against hunting or poaching of the peafowl, due to culture and mythology reasons. Adult peafowl can usually escape ground

predators by flying into trees. Foraging in groups provides some safety as there are more eyes to look out for predators.

Conservation through Habitat Improvement and Awareness

Habitat improvement programme can be undertaken through plantation of suitable tree species in the surrounding villages. While selecting the tree/ shrub species care shall be provided for beery plants which attract these birds. During summer period, villagers will be encouraged to use the old earthen pots to fill with water for drinking these birds. Summer is the time when these birds are facing shortage of feeds, there by supplying the feed like Bajri, Juwar, Maize to the identified surrounding villages with good population of Indian peafowls will suffice the problem of food shortage. The proponent can directly supply these feed to the villages directly or by funding to the NGOs active in this mission.

ANNEXURE XI MATERIAL SAFETY DATA SHEET

Product's & Raw material's Material Safety Data Sheet are as below:

Produced date: 2011-11-03

1. Identification of the substance/preparation and the company

Commercial product name	Polypropylene glycol 2000 (PPG 2000)
Use of the substance/preparation	Solvent, Chemical binder in glue
Synonyms	Polyether polyol, Polyol, polypropylene ether polyol
CAS-nr	9082-00-2
Reg.number	434333-1
Company	Fred Holmberg & Co AB
Adress	Box 60056 S-216 10 Limhamn Sweden
Telephone number	+46 (0)40 15 79 20
Fax	+46 (0)40 16 22 95
e-mail	fred.info@holmberg.se
Contact person	Fred Holmberg
Emergency telephone number	Fred Holmberg 040-15 79 20 (office hours) or. 08-33 12 31 toxicity information central (office hours), 112 for emergency central
Created by	Linus Olofsson, Fred Holmberg & Co AB, Tel. +46 (0)480-42 20 00

2. Hazards Identification

This product is not classified as dangerous according to EC criteria; Directive 1999/45/EC or 1272/2008/EC.

3. Composition/Information on ingredients

CAS-nr	Substance	Conc. % (w/w)	Classification
9082-00-2	Polyether polyol	>99 %	Not classified as hazardous material.

4. First aid measures

Inhalation	Move person to fresh air; if effects occur, consult a physician.
Skin contact	Take off contaminated clothing. Wash skin with plenty of water.
Eye contact	Titanium dioxide is not chemically irritating to the eye, could however cause physical irritation if in contact with the eye. Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
Ingestion	Call a physician if swallowed.
Protection of first-aiders	No special precautions required.
Notes to physician	Treat symptomatically.

5. Fire-fighting measures

The product does not burn, but see the common information below about fire.

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray or alcohol resistant foam.
Extinguishing media which must not be used for safety reason	None
Specific hazards	The product is not flammable nor combustible. Contaminated equipment (brushes, rags) must be cleaned immediately with water. Burning produces obnoxious and toxic fumes. CO, CO ₂ , Nox. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Cool containers / tanks with spray water.
Special protective equipment for firefighters	Wear personal protective equipment. Wear self contained breathing apparatus for fire fighting if necessary.

6. Accidental release measures

Personal precautions	Sweep-up to prevent slipping hazard. Avoid inhalation of gases. Evacuate personnel to safe areas. Avoid contact with skin and eyes. Wear personal protective equipment.
Environmental precautions	Prevent product from entering drains.
Methods for cleaning up	Adsorb with inert material (e.g. sand, kieselguhr, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal. Dispose of in accordance with local regulations.

7. Handling and storage

Storage	Handle in accordance with good industrial hygiene and safety practice for diagnostics. Keep in properly labelled containers. Keep tightly closed in a dry, cool (<30 °C) and well-ventilated place.
Handling	Impervious gloves. Wear personal protective equipment. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

8. Exposure controls/personal protection

Values according to Swedish regulations.

CAS-nr	Name	Level value (Nivågräns- värde, NGV)	Max. value. (Takgräns- värde, TGV)	Short time value (Korttids-värde, KTV)
9082-00-2	Polyether polyol	-	-	-

Respiratory protection	In case of insufficient ventilation wear suitable respiratory equipment.
Hand protection	Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur
Skin and body protection	When prolonged or frequently repeated contact could occur, use protective clothing chemically resistant to this material.
Eye protection	Face-shield Safety glasses
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Physical state	Liquid
Colour	Colourless
Odour	Weak, mild
Flashpoint	168-177 °C
Ignition point	375 °C (at 1 atm.)
Vapour pressure	<0.001 hPa (20 °C)
pH	ca 4.5-7.5
Hydroxyl number	56.1 ± 1.4 mg KOH/g
Viscosity	345 mPas (25 °C)

Acid number	≤ 0.02 mg KOH/g
Water content	≤ 0.05 w-%
Density	ca 1.0 kg/dm ³ (25 °C)
Hydroxyl content	ca 1.7 \pm 0.05 w-%

10. Stability and reactivity

Stability	Stable at normal use conditions/temperatures.
Materials to avoid	None specific
Conditions to avoid	None specific

11. Toxicological information

Low risk for damage to health, though -ingestion of large volumes may cause acidification of blood.

Acute toxicity

LD50 >2000 mg/kg oral mg/kg (oral, rått)

Corrosiveness/Irritation on skin:

Skin - Human – mild irritation

Severe eye damage/irritation:

No, mildly irritant

Inhalation or- skin sensibilisation:

Very low risk.

12. Ecotoxicological information

Ecotoxicological data are not available, but the product is expected to be readily biologically digested and is not supposed to bioaccumulate.

13. Disposal considerations

Contaminated packaging	Empty containers should be transported/delivered to local recyclers for disposal.
Any disposal practice must be in compliance with all local and national laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.	

14. Transport information

ADR/RID/IMDG

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

This product is not classified as dangerous according to EC criteria; Directive 1999/45/EC or 1272/2008/EC.

16. Remaining information

The information in this data sheet is considered to be correct according to present knowledge and experience, but there is no guarantee that it is complete. It is therefore in the user's interest to ensure that the information is sufficient for the area it is intended for.



MATERIAL SAFETY DATA SHEET

Product name: PU Foam

Model Number: WCBG-223, BKF-1617, BKF-1817, BKF-2019, BKFB-2219, 30158, 30160, 30162, WCF-163, WCF-183, WCF-203, WCF-2083, WCBF-223, WCBF-2283, WCBF-2483, COC-18, IR-16, IR-18, PP3138, PP3135, PC3420

Date prepared: January 9, 2014

1. COMPANY IDENTIFICATION:

Manufacturer: Roscoe Medical Inc.
21973 Commerce Pkwy
Strongsville, OH. 44149

Department: Quality Department

Telephone Number: 800-633-4839

Fax Number: 650-697-3596

2. HEALTH HAZARD INFORMATION

In accordance with Regulation (EC) No. 1272/2008, this product is not dangerous.

Potential Health Effects:

There are no known significant effects or critical hazards via the invasion routes of skin contact or ingestion. Under normal conditions, this product cannot be ingested because of its size.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Pure

Polyurethane: 100% By Weight, CAS No. 51852-81-4

4. FIRST-AID MEASURES

Eye Contact:

Not applicable

Skin Contact:

Remove contaminated clothes and rinse the skin with plenty of water.

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Strongsville, OH 44149

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main: 440-572-1962
fax: 440-572-42691

www.roscoemedical.com



MATERIAL SAFETY DATA SHEET

Inhalation:

Not applicable

Ingestion:

Gargle and seek medical help.

5. FIRE-FIGHTING MEASURES

Danger Characteristics:

It is apt to flame under the condition of fire and high temperature.

Hazardous Combustion Products: CO, CO₂

Fire-Fighting Method & Media:

The staff must be equipped with a filtered mask (full mask) or isolated breathing apparatus. The staff must wear clothing made for defense purposes against fire and toxic gases. Put out the fire in the upwind direction. Remove the container to open space as soon as possible. Spray water on the containers in the fire place to keep them cool until extinguishing is finished. Media: hazy water, foam, powder, CO₂, sandy clay.

6. ACCIDENTAL RELEASE MEASURES

Emergency Treatment:

Cut off the fire source. It is suggested that the staff wear a self-contained breathing apparatus and dress in usual working clothes. Shut off the divulgence source as possible. Small divulgence: clean off and transport to safe place. Massive divulgence: recycle or transport to waste treatment place for handling.

7. HANDLING AND STORAGE

Handling:

Supply with natural air exhaust. The operating staff must have received special training and abide by the operating regulations. It is advised that the staff wear work clothes and gloves. Keep away from fire and heating sources. No smoking in the workplace. Avoid contact with oxidizers. Take care when transporting, prevent damage to the packing and container. Equip with relevant types and quantities of extinguishing instruments and devices for divulgence handling.

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MATERIAL SAFETY DATA SHEET

Storage:

Keep the sample in a cool, dry and well-ventilated place. Keep away from fire and heating sources. Keep separately from oxidizers, do not mix storage. Equip with relevant types and quantities of extinguishing instruments. The storage place should be equipped with suitable shelter materials for divulgence handling.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Maximum Admissible Concentration:**

No standard yet

Monitoring Method:

None

Engineering Control:

Closed operation. Supply with natural air exhaust.

Protective Equipment for Respiration:

No special protection under normal use.

Protective Goggles:

No special protection under normal use.

Protective Gloves:

No special protection under normal use.

Protective Clothing:

No special protection under normal use.

Other Protection:

No smoking, dining and drinking water in the workplace. Keep a good habit of hygiene.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Solid

Odor: Odorless

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MATERIAL SAFETY DATA SHEET

Melting Point: No data

Density: No data

PH Value: Not applicable

Solubility: Insoluble in water.

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature and pressure

Distribution of Ban: Strong oxidizer

Conditions to Avoid: High temperature, heat source, fire source

Hazardous Polymerization: None

Hazardous Decomposition Products: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: No known significant effects or critical hazards

Sub-acute and Chronic Toxicity: No known significant effects or critical hazards

Irritation: No known significant effects or critical hazards

Sensitization: No known significant effects or critical hazards

Mutagenicity: No known significant effects or critical hazards

Carcinogenicity: No known significant effects or critical hazards

Others: None

12. ECOLOGICAL INFORMATION

Eco-Toxicity: No information is available.

Biodegradable: No data

Non-Biodegradable: No data

Bioconcentration or Biological Accumulation: No data

Other Harmful Effects: No known significant effects or critical hazards

13. DISPOSAL CONSIDERATIONS

Nature of waste: This product is not regarded as hazardous waste, as defined by Regulation (EC) No. 1272/2008.

Waste Disposal Methods: Refer to National or Local regulations before handling. It is suggested to use the method of burning.

Attention Abandoned: None

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MATERIAL SAFETY DATA SHEET

14. TRANSPORT INFORMATION

Number of Dangerous Goods: Not applicable

UN Number: Not applicable

Packaging Mark: No data

Packaging Method: No data

Transport Fashion: Air, sea, highway

Transport Attentions: Examine whether the package of the containers are integrated and tightly closed before transport. No divulgence, no collapse, no precipitation or no damage during the course of transportation. Strictly prohibited to put the goods together with oxidizer, acid, etc. for transport. The transport vehicle must be cleaned and sterilized otherwise it is not allowed to assemble other articles. During transport, the vehicle should prevent exposure, rain and high temperature. For stopovers, the vehicle should be away from fire and heat sources. Don't use engine device and tools which can easily produce spark for loading. This product is not regulated for transport of dangerous goods.

15. REGULATORY INFORMATION

ISO 11014-2009 Safety data sheet for chemical products – Content and order of sections. Regulation (EC) No. 1272/2008 Classification, Labelling and Packaging of Substances and Mixtures.

16. OTHER INFORMATION

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

To the best of our knowledge, the information contained herein is accurate. However, Roscoe Medical does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

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SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

SECTION 1: IDENTIFICATION

Product Name: Toluene Diisocyanate (TDI; T80)

CAS Number: 26471-62-5 (mixture)

Chemical Name: Toluene Diisocyanate

Synonyms: Toluene diisocyanate; TDI; T 80; TDI 80

Description: Toluene-diisocyanate (CAS# 26471-62-5, EINECS# 247-722-4) is a mixture of the isomers toluene, 2,4-diisocyanate (CAS# 584-84-9, EINECS# 209-544-5) and toluene, 2,6-diisocyanate (CAS# 91-08-7, EINECS# 202-039-0).

Company

Silver Fern Chemical, Inc.
2226 Queen Anne Avenue North
Suite #C
Seattle WA 98109, USA

Business Contact

Customer Service: 206-282-3376
info@silverfernchemical.com

24 Hour Emergency Contact

Infotrac 800-535-5053
Outside USA & Canada 352-323-3500

SECTION 2: HAZARD IDENTIFICATION

Emergency Overview

This material is HAZARDOUS by OSHA Hazard Communication definition.

Hazards: Extreme inhalation hazard-allergic/sensitization. Moderate skin irritant - allergic sensitizer. Severe eye irritant. Irritating to gastrointestinal tract. Water reactive. Possible cancer hazard (contains a material which may cause cancer based on animal data).

HMIS:

Health: 3

Flammability: 1

Physical Hazard: 1



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

NFPA:

Health: 3

Flammability: 1

Physical Hazard: 1

Physical State: Liquid.

Color: Clear, colorless to slightly yellow.

Odor: pungent odor

Odor Threshold: 0.4 - 2.14 ppm / Odor is not an adequate warning of potentially hazardous ambient air concentrations.

Potential Health Effects

Routes of Exposure

Eye. Inhalation. Skin.

Signs and Symptoms of Acute Exposure

See component summary.

• Toluene-2,4-Diisocyanate 584-84-9

Extremely toxic by inhalation - allergic sensitizer. Inhalation may cause asthma-like symptoms, including coughing, wheezing, tightness of chest, shortness of breath, and headache. Severe eye irritant. Moderate skin irritant - allergic sensitizer. Irritating to gastrointestinal tract.

• Toluene-2,6-Diisocyanate 91-08-7

Extremely toxic by inhalation - allergic sensitizer. Inhalation may cause asthma-like symptoms, including coughing, wheezing, tightness of chest, shortness of breath, and headache. Moderate skin irritant - allergic sensitizer. Severe eye irritant. Irritating to gastrointestinal tract.

Skin: Minimal hazard by skin contact; however contact with skin causes skin irritation and may cause skin and respiratory sensitization.

Inhalation: Exposure to vapor may cause irritation of the eyes, nose, and respiratory tract. Inhalation may cause asthma-like symptoms, including coughing, wheezing, tightness of chest, shortness of breath, and headache. May cause lung damage. Symptoms may be delayed.



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Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Eye: May cause severe eye irritation. Severe irritation may result in corneal opacity, redness, inflammation of the iris and swelling of the conjunctiva.

Ingestion: Ingestion may result in irritation of the mouth and digestive tract. Gastroenteritis may result with any or all of the following symptoms: nausea, vomiting, diarrhea, headache. May cause damage to the stomach. Aspiration may cause lung damage.

Chronic Health Effects

Prolonged or repeated exposure to vapors may cause lung damage. Repeated over exposure to isocyanates and high one time accidental exposures have been associated with gradual decrease in lung function. Repeated inhalation also may cause allergic sensitization of the respiratory tract, resulting in coughing, wheezing, shortness of breath, chest tightness, and other asthma-like symptoms that may be life-threatening. Repeated skin contact may cause irritation and allergic dermatitis. Industrial experience in humans has not shown any link between TDI exposure and cancer development.

- *Toluene-2,4-Diisocyanate 584-84-9*

Toluene Diisocyanate (TDI) is a potent skin and respiratory allergic sensitizer. Sensitive individuals may exhibit skin rash, wheezing, tightness of the chest, and difficulty breathing that may progress to a life-threatening inability to breathe. Chronic inhalation may cause lung damage. Listed by IARC as a group 2B - Possible Human Carcinogen. NTP Anticipated Carcinogen

- *Toluene-2,6-Diisocyanate 91-08-7*

Sensitive individuals may exhibit skin rash, wheezing, tightness of the chest, and difficulty breathing that may progress to a life-threatening inability to breathe. Chronic inhalation may cause lung damage. Listed by IARC as a group 2B - Possible Human Carcinogen. NTP Anticipated Carcinogen

Conditions Aggravated by Exposure

This material is an irritant: may aggravate existing dermatitis. Breathing of vapor and/or mist may aggravate asthma and inflammatory or fibrotic lung disease. Exposure may aggravate one or more of the following medical conditions: Asthma or asthmatic bronchitic medical history. History or presence of allergic disease.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

Component Name	CAS #	EU Inventory	% by Weight
Toluene-2,4-Diisocyanate	584-84-9	209-544-5	80.0
Toluene-2,6-Diisocyanate	91-08-7	202-039-0	20.0

(Composition values given are typical values, not specifications.)

SECTION 4: FIRST AID MEASURES



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

General

Take proper precautions to ensure your own health and safety before attempting rescue and providing first aid. For specific information refer to the Emergency Overview in Section 2 of this MSDS. Prompt action is essential. Assess rapidly and aggressively. Resuscitation may be indicated.

Skin: Immediately remove contaminated clothing. Wash skin thoroughly with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Obtain emergency medical attention.

Inhalation: If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention.

Eye: Immediately flush the eyes with large amounts of clean low-pressure water for at least 15 minutes, occasionally lifting the upper and lower lids. If pain or irritation persists, promptly obtain medical attention.

Ingestion: Do not induce vomiting because of possible severe irritant side effects. Obtain emergency medical attention.

Note to Physician:

Treat symptomatically. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

SECTION 5: FIRE FIGHTING MEASURES

Flammable Properties

Classification

OSHA/NFPA Class IIIB combustible liquid.

Flash Point: ~ 132 °C (269.6 °F) (COC)

Auto-Ignition Temperature: > 620 °C (1,148 °F)

Lower Flammable Limit: 0.9 vol%

Upper Flammable Limit: 9.5 vol%

Extinguishing Media

Suitable:

SMALL FIRE: Use dry chemicals, CO₂, water spray or alcohol-resistant foam.

LARGE FIRE: Use water spray, water fog or alcohol-resistant foam. Water to be used only in large quantities due to reactivity.



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Unsuitable: Most foams will react with the material and release corrosive/toxic gases.

Protection of Firefighters

Protective Equipment/Clothing:

Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing is recommended for fire situations ONLY; it is not effective in spill situations.

Fire Fighting Guidance:

On exposure to high temperature, may decompose, releasing toxic/flammable vapors. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air. May travel long distances along the ground before igniting and flashing back to vapor source. Under fire conditions, highly hazardous fumes will be present. Use water with care on closed containers - material will react with water/generate pressure/may explode/spread fire/increase risk of burns/injuries/contact with hazardous material. Liquid heavier than water. Blanket with alcohol-resistant foam. Note: Most foams will react with the material and release corrosive/toxic gases. Byproduct of water reaction may be harmful - minimize exposure to water contacting this material. When fighting a fire, notify environmental authorities if liquid runoff enters sewers or public waters.

Hazardous Combustion Products:

During instances of thermal decomposition or combustion, the liberation of diisocyanate vapors and other irritating, highly toxic gases may be generated and/or released. Traces of hydrogen cyanide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Release Response

Highly reactive material. May release toxic materials/contaminate water supplies/create human health hazard. Liquids/vapors may ignite. Equip responders with proper protection. Use self-contained breathing apparatus and bodycovering protective clothing. Evacuate/limit access. Extinguish ignition sources; stop release; prevent flow to sewers or public waters. Blanket with alcohol-resistant foam. Impound/recover large land spill; soak up small spill with inert solids. Avoid water for clean-up or use in large quantities due to reactivity. Use suitable disposal containers. Reacts with water, releasing CO₂, forming urea polymers. Contain/collect rapidly to minimize dispersion. Disperse residue to reduce aquatic harm. Report per regulatory requirements. Notify fire and environmental authorities.

SECTION 7: HANDLING AND STORAGE

Handling

Use special care when handling/transporting samples. Store at 20-24 °C. Material sampling procedures should avoid vapor inhalation and skin/eye contact and only be conducted with proper protective equipment. All containers should be labeled to warn against exposure. Handle empty containers with care - residue may be combustible. When cleaning or repairing equipment contaminated with this material, total encapsulating impervious protective suits, gloves, and boots should be worn to prevent any contact. A positive pressure self-contained breathing apparatus and/or a supplied air respirator should be used. Decontaminate empty, non-returnable isocyanate drums by filling with water. Allow to stand



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

48 hours with bung removed. After 48 hours, drain and pierce drums. Wash with sodium carbonate solution (5-10%).

Storage

All containers should be labeled to warn against exposure. Store in tightly closed/properly vented containers with vents directed to locations removed from potential personnel exposure. Store in well ventilated area away from water, moisture, humidity, and direct sunlight. Store at 20-24 °C. Do not store in galvanized or other corrodible containers. Storage and handling in stainless steel is preferred. Storage in polyethylene containers is hazardous because of absorption of water through the plastic.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Engineering Controls

Local exhaust and general ventilation must be adequate to meet exposure limit(s).

Personal Protection

Inhalation

Extreme inhalation hazard. A respiratory protection program that meets OSHA's 29 CFR 1910.134 or ANSI Z88.2 requirements must be followed whenever workplace conditions warrant respirator use. Use an approved respirator, either air-supplied or air purifying (consult your company safety professional, or Lyondell Industrial Hygiene group for guidance). The type of respiratory protection will depend upon whether the maximum exposure concentration is known.

Skin

Wear chemical resistant gloves such as: Nitrile-knit(TM). Nitrile. Butyl rubber. 4H(tm)(PE/EVAL). or Neoprene. Exposed skin which may come in contact with this material should be protected using appropriate impervious skin protection. Protective clothing including gloves, apron, sleeves, boots, and full head/face protection should be worn. The equipment must be cleaned thoroughly after each use.

Eye

Eye protection, including both chemical splash goggles and face shield, must be worn when possibility exists for eye contact due to splashing/spraying liquid, airborne particles, or vapor.

Additional Remarks

The "Immediately Dangerous to Life and Health" (IDLH) concentration for toluene diisocyanate is (2.5ppm) Ca. Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the hazards and/or potential hazards that may be encountered during use. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, smoking, or using toilet facilities. Promptly remove soiled clothing/wash thoroughly before reuse. Wash clothing frequently.



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Occupational Exposure Limits:

Component Name	Source	Type	Value	Notation
Toluene-2,4-Diisocyanate	US (ACGIH)	STEL	0.02 ppm	None.
	US (ACGIH)	TWA	0.005 ppm	None.
	US (OSHA)	CEILING	0.02 ppm 0.14 mg/m ³	None.
Toluene-2,6-Diisocyanate	US (ACGIH)	STEL	0.02 ppm	None.
	US (ACGIH)	TWA	0.005 ppm	None.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Liquid. Clear, colorless to slightly yellow.

Odor: pungent odor

Odor Threshold: 0.4 - 2.14 ppm Odor is not an adequate warning of potentially hazardous ambient air concentrations.

pH: Not applicable.

Boiling Point/Boiling Range: 250 °C (482 °F) @ 750 mm Hg

Freezing Point/Melting Point: ~ 13.5 - 14.5 °C (56.3 - 58.1 °F)

Flash Point: ~ 132 °C (269.6 °F) (COC)

Auto-ignition: > 620 °C (1,148 °F)

Flammability: OSHA/NFPA Class IIIB combustible liquid.

Lower Flammable Limit: 0.9 vol%

Upper Flammable Limit: 9.5 vol%

Explosive Properties: No Data Available.

Oxidizing Properties: No Data Available.

Vapor Pressure: ~ 0.003 kPa @ 25 °C (77 °F)



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Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Evaporation Rate: No Data Available.

Relative Density: 1.2 @ 20 °C (68 °F)

Relative Vapor Density: 6 (Air = 1.0)

Viscosity: 3.0 mPa.s @ 25 °C (77 °F)

Solubility (Water): Reacts.

Partition Coefficient (Kow): Log Kow = 3.4 - 3.6

Additional Physical and Chemical Properties: Additional properties may be listed in Sections 2 and 5.

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability

This material is stable when properly handled and stored.

Conditions to Avoid

Excessive heat and light. Heat, sparks, open flame, other ignition sources, oxidizing conditions, moisture, and high humidity.

Substances to Avoid

Polymerization initiators. Amines. Alcohols. Water. Bases. Acids. Copper. Copper alloys. Zinc. Tin. Strong oxidizing agents.

Decomposition Products

During instances of thermal decomposition or combustion, the liberation of diisocyanate vapors and other irritating, highly toxic gases may be generated and/or released. Hydrogen cyanide.

Hazardous Polymerization

Not expected to occur.

Reactions with Air and Water

Reacts with water, releasing CO₂, forming urea polymers.

SECTION 11: TOXICOLOGICAL INFORMATION



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

PRODUCT INFORMATION

Product Summary

This information represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the health effects presented in this section apply to both isomers. Acute studies indicate that toluene diisocyanate (TDI) is highly toxic after inhalation exposure; whereas oral ingestions and skin contact present a low acute toxicity hazard. TDI is irritating to the eye, skin, and respiratory tract. It is a skin sensitizer and can cause allergic skin reactions after contact with the skin. Inhalation or skin contact to TDI can cause respiratory sensitization resulting in an allergic asthma-like reaction following inhalation exposure. Symptoms of exposure may be delayed. Results from repeat exposure studies in animals indicate that the irritant properties of TDI cause injury to the respiratory tract after prolonged exposure. No adverse changes were observed in male or female reproductive organs and there was no effect on fertility in rats after inhalation exposure. There were no malformations in fetuses of female rats exposed to TDI throughout pregnancy. Inconsistent results have been obtained from mutagenicity tests in vitro, however no genetic toxicity was observed in rodents treated in vivo. There was no increase in tumors in rats and mice exposed for 2 years via inhalation; whereas long-term ingestion of TDI was carcinogenic to rats and mice.

COMPONENT INFORMATION

°Toluene-2,4-Diisocyanate 584-84-9

Acute Toxicity - Lethal Doses

LC50 (Inhl) Rat ~ 66 PPM 1 HOUR

Rat ~ 45PPM 4 HOUR

LD50 (Oral) Rat 4130 - 5110 MG/KG BWT

LD50 (Skin) Rabbit > 9400 MG/KG BWT

Acute Toxicity - Effects

Ingestion

Ingestion may result in irritation of the mouth and digestive tract. Gastroenteritis may result with any or all of the following symptoms: nausea, vomiting, diarrhea, headache. May cause damage to the stomach.

Skin Contact

Minimal hazard by skin contact; however contact with skin causes skin irritation and may cause skin and respiratory sensitization.

Irritation

Skin: Moderate skin irritant.



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Eye: Severe eye irritant. Severe irritation may result in corneal opacity, redness, inflammation of the iris and swelling of the conjunctiva.

Sensitization

Respiratory sensitizer. May cause respiratory sensitization following dermal or inhalation exposure. This material may cause sensitization by skin contact.

Target Organ Effects

Skin. Eye. Lung. Respiratory system. Gastrointestinal tract.

Repeated Dose Toxicity

TDI administered repeatedly to laboratory animals at doses of 300 mg/kg bwt (oral) caused injury to the stomach, small intestine, lungs, and trachea. Repeated exposure at 0.24 ppm (inhalation) caused injury to the respiratory tract (nasal passages, trachea, larynx, bronchi, and lungs; at 0.08 ppm, local nasal effects (rhinitis) were present. Serious risk to health after prolonged exposure.

Reproductive Effects

No adverse effect on reproductive performance was observed in male and female rats exposed to TDI by inhalation at concentrations up to 0.30 ppm over two generations.

Developmental Effects

TDI is not teratogenic in rats exposed by inhalation during pregnancy at concentrations up to 0.50 ppm. Maternal toxicity and minimal fetotoxicity occurred at 0.50 ppm. Post-natal toxicity evident by reduced body weight was observed in offspring of rats repeatedly exposed by inhalation to 0.08 ppm TDI before mating, during pregnancy, and during lactation.

Genetic Toxicity

Inconsistent evidence of mutagenic activity in test systems in vitro. No increase in micronuclei or unscheduled DNA synthesis in rodents after in vivo exposure.

Carcinogenicity

No increase in tumors in rats or mice after long-term exposure via inhalation at concentrations up to 0.15 ppm. Long-term ingestion of doses of 60 mg/kg bwt and greater caused increases in tumors in rats and mice. Rats exhibited an increased incidence in subcutaneous fibromas and fibrosarcomas, mammary gland fibroadenomas, pancreatic acinar-cell and isletcell adenomas, and neoplastic liver nodules and mice showed increases in the incidence of hemangiomas and hemangiosarcomas and hepatocellular adenomas. Human studies of occupational exposure to isocyanates have not found a strong association or consistent pattern of cancer. Based upon animal ingestion studies, TDI has been classified by NTP as reasonably anticipated to be a carcinogen, by IARC as a Group 2B - possibly carcinogenic to humans, and as a potential occupational carcinogen by NIOSH.



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

°Toluene-2,6-Diisocyanate 91-08-7

Irritation

Skin: Moderate skin irritant. Skin sensitizer.

Eye: Severe eye irritant. Severe irritation may result in corneal opacity, redness, inflammation of the iris and swelling of the conjunctiva.

SECTION 12: ECOLOGICAL INFORMATION

PRODUCT INFORMATION

Ecotoxicity

The ecotoxicological information for the acute and chronic aquatic toxicity effects represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the aquatic toxicity effects presented in this section apply to both isomers. This material is classified as harmful to invertebrates. May exhibit chronic toxicity in specific invertebrates. This material is not harmful or toxic to fish. See component summary.

Environmental Fate and Pathway

The environmental impact information for the environmental fate and pathway effects represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the environmental fate and pathway effects presented in this section apply to both isomers. In the atmosphere, TDI degrades by reaction with hydroxyl radicals with a half-life of 2.2 days. Undergoes rapid hydrolysis in water with a half-life under 1 minute to produce polyureas, which are inert, insoluble solids. Not expected to volatilize, leach, or adsorb to solids in moist soil. Not expected to volatilize from dry soil surfaces. Not readily or inherently biodegradable. This material is not expected to bioaccumulate.

COMPONENT INFORMATION

°Toluene-2,4-Diisocyanate 584-84-9

Ecotoxicity

The ecotoxicological information for the acute and chronic aquatic toxicity effects represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the aquatic toxicity effects presented in this section apply to both isomers. This material is not harmful or toxic to fish. This material is classified as harmful to invertebrates. May exhibit chronic toxicity in specific invertebrates.

Acute toxicity to fish:

LC50 / 96 HOUR rainbow trout. 133 mg/l

LC50 / 96 HOUR Japanese medaka 4,170 mg/l



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

LC50 / 96 HOUR Zebra Fish. > 100 mg/l

LC50 / 24 HOUR Zebra Fish. > 500 mg/l

Acute toxicity to aquatic invertebrates:

EC50 / 48 HOUR daphnia 12.5 mg/l

EC50 / 24 HOUR daphnia 750 mg/l

NOEC / 24 HOUR daphnia > 500 mg/l

EC50 / 48 HOUR common shrimp (mysid) 18.3 mg/l

EC50 / 24 HOUR freshwater snail > 500 mg/l

Summary: This material is classified as harmful to invertebrates.

Toxicity to aquatic plants:

EC50 / 96 HOUR green algae. 4,300 mg/l

EC10 / 96 HOUR green algae. > 2,000 mg/l

EC50 / 96 HOUR algae 3,230 mg/l

Summary: This material is not harmful or toxic to algae or higher aquatic plants.

Toxicity to microorganisms:

EC50 / 3 HOUR Activated sludge > 100 mg/l

Summary: Respiration inhibition.

NOEC / 10 DAY bacteria. > 100 mg/l

Summary: Growth

Chronic toxicity to fish:

Summary: No Data Available.

Chronic toxicity to aquatic invertebrates:

NOEC / 21 DAY daphnia 1.1 mg/l

Summary: (reproduction)

EC50 / 21 DAY daphnia 2.0 mg/l

Summary: (reproduction)

Environmental Fate and Pathway

The environmental impact information for the environmental fate and pathway effects represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the environmental fate and pathway effects presented in this section apply to both isomers. In the atmosphere, TDI degrades by reaction with hydroxyl radicals with a half-life of 2.2 days. Undergoes rapid hydrolysis in water with a half-life under 1 minute to produce polyureas, which are inert, insoluble solids. Not expected to volatilize, leach, or adsorb to solids in moist soil. Not expected to volatilize from dry soil surfaces. Not readily or inherently biodegradable. This material is not expected to bioaccumulate.

Persistence and Degradability

Stability in Water: Reacts with water to form stable, insoluble polyureas. Not expected to volatilize from surface waters.



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Not likely to adsorb to suspended solids and sediment in water.

Stability in Soil: Not expected to volatilize, leach, or adsorb to solids in moist soil. Not expected to volatilize from dry soil surfaces.

Biodegradation: It reacts rapidly in water to give products resistant to biodegradation. Not readily or inherently biodegradable.

Bioaccumulation: This material is not expected to bioaccumulate.

oToluene-2,6-Diisocyanate 91-08-7

Ecotoxicity

The ecotoxicological information for the acute and chronic aquatic toxicity effects represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the aquatic toxicity effects presented in this section apply to both isomers.

Environmental Fate and Pathway

The environmental impact information for the environmental fate and pathway effects represents two isomeric compounds, 2,4-toluene diisocyanate and 2,6-toluene diisocyanate, as well as mixtures of these two isomers in various proportions. Unless otherwise stated, the environmental fate and pathway effects presented in this section apply to both isomers.

SECTION 13: DISPOSAL CONSIDERATIONS

Contaminated product/soil/water may be U.S. Resource Conservation and Recovery Act (RCRA)/U.S. Occupational Safety and Health Administration (OSHA) hazardous waste due to toxicity. Avoid contact with water. Aqueous wastes may not biodegrade. Do not treat biologically; may poison/upset plant biomass. Comply with federal, state, or local regulations for disposal.

SECTION 14: TRANSPORT INFORMATION

Special Requirements: If you reformulate or further process this material, you should consider re-evaluation of the regulatory status of the components listed in the composition section of this sheet, based on final composition of your product.

Proper Shipping Name: Toluene diisocyanate

RQ: Toluene diisocyanate

ID No.: UN2078



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

Hazard Class: 6.1

PG: II

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

Regulatory Status:

<u>Country</u>	<u>Inventory</u>
Australia	AICS
Canada	DSL
China	IECS
EU	EINECS
Japan	ENCS
Korea	ECL
Philippines	PICCS
USA	TSCA
NZ	NZIoC

If identified components of this product are listed under the TSCA 12(b) Export Notification rule, they will be listed below.

SARA 302/304

<u>Component</u>	<u>TPQ</u>	<u>RQ</u>
Toluene-2,4-Diisocyanate	500lbs.	100 lbs.
Toluene-2,6-Diisocyanate	100lbs.	100 lbs.

SARA 311/312

Based upon available information, this material is classified as the following health and/or physical hazards according to Section 311 & 312:

Immediate (Acute) Health Hazard.
Delayed (Chronic) Health Hazard.
Reactive.

SARA 313

This product contains the following chemicals subject to the reporting requirements of SARA Title III, Section 313 and 40



SILVER FERN CHEMICAL

Material Safety Data Sheet

TOLUENE DIISOCYANATE (TDI)

CFR 372:

Component Reporting Threshold
Toluene-2,4-Diisocyanate 0.1%
Toluene-2,6-Diisocyanate 0.1%

State Reporting

This product contains no known chemicals regulated by California's Proposition 65.

This product contains the following chemicals regulated by New Jersey's Worker and Community Right to Know Act:

Toluene-2,4-Diisocyanate 584-84-9
Toluene-2,6-Diisocyanate 91-08-7

This product contains the following chemicals regulated by Massachusetts' Right to Know Law:

Toluene-2,4-Diisocyanate 584-84-9
Toluene-2,6-Diisocyanate 91-08-7

This product contains the following chemicals regulated by Pennsylvania's Right to Know Act:

Toluene-2,4-Diisocyanate 584-84-9
Toluene-2,6-Diisocyanate 91-08-7

SECTION 16: OTHER INFORMATION

Date Created: 5/01/2008

Date Last Updated: 5/01/2008

DISCLAIMER OF RESPONSIBILITY

The information on this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this MSDS information may not be applicable.

<end of document>

ANNEXURE III ANALYSIS REPORTS OF WATER, AIR, SOIL & NOISE

Note: In this project baseline details collected in 1st December, 2018 to 28th February, 2019 is utilized.



White House,
Near G.I.D.C. Office, Char Rasta,
Vapi-396 195, Gujarat, India.
Phone : +91 260 2433966 / 2425810
Email : response@uerl.in Website : www.uerl.in

MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986(12.01.2015 to 11.01.2020)

GC-NABET Accredited EIA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-II)

ISO 9001:2007
Certified Company

ISO 9001:2015
Certified Company

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE 44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February - 2019
Location of Monitoring	: Project Site (A1)
Location Code	: 18/12-02/FIA/EL/WF/01

Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	01-12-2018	55.20	41.25	11.52	14.61	BDL
2.	02-12-2018	56.51	40.23	11.20	14.69	
3.	08-12-2018	55.32	41.10	12.32	15.36	BDL
4.	09-12-2018	57.24	39.71	12.96	15.81	
5.	15-12-2018	54.28	39.33	13.00	14.96	BDL
6.	16-12-2018	53.95	39.51	10.95	15.64	
7.	22-12-2018	58.70	40.78	10.91	16.03	BDL
8.	23-12-2018	54.45	40.44	11.35	16.55	
9.	30-12-2018	53.21	39.90	11.75	17.22	BDL
10.	31-12-2018	59.32	41.55	13.02	18.41	
11.	06-01-2019	55.74	41.84	13.55	17.70	BDL
12.	07-01-2019	53.26	42.10	10.97	19.57	
13.	13-01-2019	53.48	42.22	10.93	19.14	BDL
14.	15-01-2019	55.55	42.50	11.13	20.32	
15.	21-01-2019	54.40	39.95	12.30	20.10	BDL

Page No. 1 of 2

Regd. Office : 215, Royal Arcade, Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Location of Monitoring		Project Site (A1)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
16.	22-01-2019	55.30	40.12	14.70	19.04	
17.	28-01-2019	56.11	41.63	13.61	20.99	
18.	29-01-2019	57.12	41.88	13.54	20.83	BDL
19.	04-02-2019	54.30	42.40	12.31	20.28	
20.	05-02-2019	58.30	39.67	12.74	20.95	BDL
21.	11-02-2019	54.56	39.30	11.88	19.30	
22.	12-02-2019	59.20	42.28	11.10	17.42	BDL
23.	18-02-2019	58.91	42.32	10.90	15.87	
24.	19-02-2019	58.40	42.56	10.98	14.60	BDL
	Min.	53.21	39.30	10.90	14.60	0.00
	Max.	59.32	42.56	14.70	20.99	0.00
	Average	55.93	41.02	12.07	17.72	0
	98th Percentile	59.26	42.53	14.20	20.97	0

Page No. 2 of 2

Checked By:

Acael
(Chemist) / (Supervisor)

Tested By:

Pharlan
(Chemist) / (Sr. Chemist)

Approved By:

Spandep
(Manager - Operations.)

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February - 2019
Location of Monitoring	: Hirapur (A2)
Location Code	: 18/12-02/EIA/EL/WF/02

Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	03-12-2018	52.23	31.55	11.63	14.40	BDL
2.	04-12-2018	53.55	31.32	11.65	14.69	
3.	10-12-2018	52.32	32.11	12.28	15.36	BDL
4.	11-12-2018	53.24	34.71	12.20	15.81	
5.	17-12-2018	51.32	35.37	11.65	14.96	BDL
6.	18-12-2018	52.95	34.51	11.95	15.44	
7.	24-12-2018	52.28	35.88	11.80	16.45	BDL
8.	26-12-2018	52.45	35.44	11.65	16.55	
9.	01-01-2019	53.32	32.75	11.75	17.56	BDL
10.	02-01-2019	54.32	33.53	11.60	18.88	
11.	08-01-2019	53.77	34.87	12.30	17.70	BDL
12.	09-01-2019	51.66	35.25	12.22	19.77	
13.	16-01-2019	52.84	35.10	11.93	19.14	BDL
14.	17-01-2019	51.55	35.59	11.88	12.38	


Page No. 1 of 2

Regd. Office : 215, Royal Arcade, Near G.I.D.C. Office, Char Rasta, Vapi-396 195, Gujarat, India.
Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463


Location of Monitoring		: Hirapur (A2)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	23-01-2019	54.88	34.81	12.30	20.11	BDL
16.	24-01-2019	52.83	35.22	12.21	20.04	
17.	30-01-2019	54.90	34.63	11.61	18.25	
18.	31-01-2019	54.32	34.10	11.74	17.55	BDL
19.	06-02-2019	54.66	34.80	12.31	16.28	
20.	07-02-2019	53.40	35.70	12.32	20.35	BDL
21.	13-02-2019	53.75	35.11	11.88	19.30	
22.	14-02-2019	52.21	35.28	11.78	20.40	BDL
23.	20-02-2019	52.50	34.65	11.99	19.99	
24.	21-02-2019	51.90	34.29	12.10	18.86	BDL
	Min.	51.32	31.32	11.60	12.38	0.00
	Max.	54.90	35.88	12.32	20.40	0.00
	Average	53.05	34.44	11.95	17.51	0
	98th Percentile	54.89	35.80	12.32	20.38	0

Page No. 2 of 2

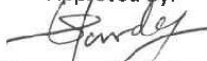
Checked By:


(Chemist) / (Supervisor)

Tested By:


(Chemist) / (Sr. Chemist)

Approved By:


(Manager - Operations.)

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February - 2019
Location of Monitoring	: Goraj (A3)
Location Code	: 18/12-02/EIA/EL/WF/03

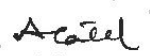
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		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	01-12-2018	59.25	37.45	11.15	13.51	BDL
2.	02-12-2018	59.72	37.28	11.24	15.69	
3.	08-12-2018	60.32	38.11	10.88	15.36	BDL
4.	09-12-2018	61.24	37.71	10.92	16.81	
5.	15-12-2018	59.37	37.37	11.24	14.96	BDL
6.	16-12-2018	59.95	37.51	11.10	15.44	
7.	22-12-2018	59.28	37.88	11.29	16.45	BDL
8.	23-12-2018	59.10	37.44	11.35	16.55	
9.	30-12-2018	60.32	39.17	10.78	14.56	BDL
10.	31-12-2018	61.32	38.53	11.29	16.88	
11.	06-01-2019	62.77	38.87	10.94	13.70	BDL
12.	07-01-2019	60.16	37.25	10.81	14.77	
13.	13-01-2019	59.44	38.19	11.19	14.14	BDL
14.	15-01-2019	60.75	37.59	11.28	9.64	

Page No. 1 of 2

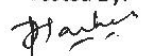
Location of Monitoring		: Goraj (A3)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	21-01-2019	60.61	39.81	10.93	13.11	BDL
16.	22-01-2019	62.83	39.22	10.76	14.04	
17.	28-01-2019	61.39	37.63	11.21	15.25	
18.	29-01-2019	62.20	37.10	11.13	16.55	BDL
19.	04-02-2019	62.49	37.82	10.85	16.28	
20.	05-02-2019	59.40	37.70	10.82	16.35	BDL
21.	11-02-2019	60.23	37.11	11.30	21.01	
22.	12-02-2019	61.18	38.28	11.31	15.44	BDL
23.	18-02-2019	62.65	39.65	11.14	16.81	
24.	19-02-2019	60.00	37.29	10.88	16.41	BDL
	Min.	59.10	37.10	10.76	9.64	0.00
	Max.	62.83	39.81	11.35	21.01	0.00
	Average	60.67	38.00	11.07	15.40	0
	98th Percentile	62.80	39.74	11.33	19.11	0

Page No. 2 of 2

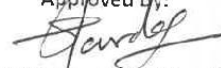
Checked By:


(Chemist) / (Supervisor)

Tested By:


(Chemist) / (Sr. Chemist)

Approved By:


(Manager - Operations.)

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February - 2019
Location of Monitoring	: Zolapur (A4)
Location Code	: 18/12-02/EIA/EL/WF/04

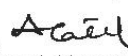
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	01-12-2018	45.25	34.90	10.18	12.81	BDL
2.	02-12-2018	46.72	35.28	10.24	12.69	
3.	08-12-2018	45.32	36.11	11.10	13.36	BDL
4.	09-12-2018	46.24	35.71	10.75	16.12	
5.	15-12-2018	54.37	35.37	10.48	14.96	BDL
6.	16-12-2018	47.28	34.51	10.14	15.44	
7.	22-12-2018	47.81	36.72	11.29	16.34	BDL
8.	23-12-2018	48.10	35.44	11.13	16.15	
9.	30-12-2018	51.32	35.17	10.12	14.56	BDL
10.	31-12-2018	52.30	34.50	10.98	16.20	
11.	06-01-2019	55.17	36.14	10.48	13.70	BDL
12.	07-01-2019	54.16	34.55	10.18	14.77	
13.	13-01-2019	53.44	35.19	11.24	14.14	BDL
14.	15-01-2019	55.27	35.59	10.18	6.50	

Page No. 1 of 2

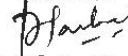
Location of Monitoring		: Zolapur (A4)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	21-01-2019	45.22	36.81	10.33	13.11	BDL
16.	22-01-2019	55.43	36.22	10.17	14.04	
17.	28-01-2019	53.21	36.63	10.88	15.25	
18.	29-01-2019	54.72	35.10	10.61	15.55	BDL
19.	04-02-2019	55.50	36.80	11.30	15.28	
20.	05-02-2019	51.63	35.78	10.12	16.39	BDL
21.	11-02-2019	52.11	35.81	11.15	15.01	
22.	12-02-2019	54.76	36.28	10.11	16.24	BDL
23.	18-02-2019	55.63	35.65	11.18	15.81	
24.	19-02-2019	54.29	35.29	10.11	16.38	BDL
	Min.	45.22	34.50	10.11	6.50	0.00
	Max.	55.63	36.81	11.30	16.39	0.00
	Average	51.47	35.65	10.60	14.62	0
	98th Percentile	55.57	36.81	11.30	16.39	0

Page No. 2 of 2

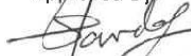
Checked By:


(Chemist) / (Supervisor)

Tested By:


(Chemist) / (Sr. Chemist)

Approved By:


(Manager - Operations)

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, BoI, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February - 2019
Location of Monitoring	: Rupavati (A5)
Location Code	: 18/12-02/EIA/EL/WF/05

Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	03-12-2018	59.25	40.65	13.58	14.40	BDL
2.	04-12-2018	59.72	40.74	13.88	13.69	
3.	10-12-2018	60.32	41.69	14.12	15.36	BDL
4.	11-12-2018	61.24	42.03	13.38	13.81	
5.	17-12-2018	59.37	42.11	12.95	14.96	BDL
6.	18-12-2018	59.95	41.51	13.61	15.44	
7.	24-12-2018	59.28	41.88	13.98	16.45	BDL
8.	26-12-2018	59.10	40.64	14.65	16.55	
9.	01-01-2019	60.32	41.68	14.75	17.56	BDL
10.	02-01-2019	61.32	41.20	13.90	18.88	
11.	08-01-2019	62.77	42.18	12.93	17.70	BDL
12.	09-01-2019	60.16	40.16	13.22	19.77	
13.	16-01-2019	59.44	41.19	13.61	13.24	BDL
14.	17-01-2019	60.75	40.88	13.88	14.38	

Page No. 1 of 2

Location of Monitoring		: Rupavati (A5)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	23-01-2019	60.61	40.42	14.52	13.88	BDL
16.	24-01-2019	62.51	41.53	15.21	13.74	
17.	30-01-2019	61.39	41.34	15.61	18.25	
18.	31-01-2019	62.20	41.24	13.41	17.55	BDL
19.	06-02-2019	62.49	40.19	12.98	16.28	
20.	07-02-2019	59.40	41.73	14.32	21.73	BDL
21.	13-02-2019	60.23	41.94	15.45	19.30	
22.	14-02-2019	61.18	40.82	15.74	20.40	BDL
23.	20-02-2019	62.65	41.20	14.72	19.99	
24.	21-02-2019	60.00	42.21	14.78	18.86	BDL
	Min.	59.10	40.16	12.93	13.24	0.00
	Max.	62.77	42.21	15.74	21.73	0.00
	Average	60.65	41.30	14.13	16.76	0
	98th Percentile	62.71	42.20	15.68	21.12	0

Page No. 2 of 2

Checked By:

Aceel
(Chemist) / (Supervisor)

Tested By:

Harsh
(Chemist) / (Sr. Chemist)

Approved By:

Harsh
(Manager - Operations.)

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	Month of December – 2018 to February - 2019
Location of Monitoring	Bol (A6)
Location Code	18/12-02/EIA/EL/WF/06

Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	05-12-2018	59.23	42.55	11.88	17.65	BDL
2.	06-12-2018	59.55	42.54	11.51	17.42	
3.	12-12-2018	60.44	43.98	12.28	16.36	BDL
4.	13-12-2018	59.84	43.71	12.32	16.81	
5.	19-12-2018	58.72	42.80	11.65	19.96	BDL
6.	20-12-2018	58.95	44.51	11.95	18.44	
7.	27-12-2018	58.59	42.88	13.98	21.45	BDL
8.	28-12-2018	58.62	44.64	11.65	16.55	
9.	03-01-2019	60.32	42.75	11.75	17.56	BDL
10.	04-01-2019	59.45	42.58	13.90	18.88	
11.	10-01-2019	60.97	43.44	12.30	20.71	BDL
12.	11-01-2019	58.66	45.69	12.22	19.77	
13.	18-01-2019	60.84	43.61	11.61	17.24	BDL
14.	19-01-2019	57.55	44.88	11.88	21.38	

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Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

Location of Monitoring		: Bol (A6)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	25-01-2019	59.88	43.82	14.52	19.88	BDL
16.	26-01-2019	58.83	42.50	12.21	18.74	
17.	01-02-2019	59.97	43.51	11.61	18.25	
18.	02-02-2019	59.44	44.63	11.41	17.55	BDL
19.	08-02-2019	59.66	45.99	12.31	16.32	
20.	09-02-2019	59.40	45.54	12.32	21.73	BDL
21.	15-02-2019	58.28	44.94	11.88	19.30	
22.	16-02-2019	58.88	45.82	14.51	24.41	BDL
23.	22-02-2019	59.50	44.71	11.99	22.11	
24.	23-02-2019	58.41	43.89	12.78	21.86	BDL
	Min.	57.55	42.50	11.41	16.32	0.00
	Max.	60.97	45.99	14.52	24.41	0.00
	Average	59.33	44.00	12.35	19.18	0
	98th Percentile	60.91	45.91	14.52	23.35	0

Page No. 2 of 2

Checked By:

Acael
(Chemist) / (Supervisor)

Tested By:

Harsh
(Chemist) / (Sr. Chemist)

Approved By:

Harsh
(Manager - Operations.)

AMBIENT AIR QUALITY MONITORING DATA

Name & Address of Customer	:	M/s. Entech Laboratories, 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	:	M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	:	Month of December – 2018 to February - 2019
Location of Monitoring	:	Kalana (A7)
Location Code	:	18/12-02/EIA/EL/WF/07

Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	03-12-2018	58.77	40.65	13.58	17.91	BDL
2.	04-12-2018	58.57	40.74	13.88	18.42	
3.	10-12-2018	59.84	41.69	14.12	17.80	BDL
4.	11-12-2018	58.74	42.20	13.38	19.81	
5.	17-12-2018	59.72	42.11	15.95	19.96	BDL
6.	18-12-2018	62.83	41.51	13.61	20.88	
7.	24-12-2018	58.59	41.88	13.98	21.45	BDL
8.	26-12-2018	58.70	40.64	14.65	22.11	
9.	01-01-2019	59.38	41.68	14.75	22.56	BDL
10.	02-01-2019	59.22	42.11	13.90	18.88	
11.	08-01-2019	59.97	42.21	15.93	20.71	BDL
12.	09-01-2019	60.58	40.69	16.22	19.77	
13.	16-01-2019	58.81	39.80	13.61	21.24	BDL
14.	17-01-2019	58.96	40.88	16.88	21.38	

Page No. 1 of 2

Location of Monitoring		: Kalana (A7)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	23-01-2019	59.88	40.42	14.52	19.88	BDL
16.	24-01-2019	58.83	41.53	15.21	18.74	
17.	30-01-2019	59.99	42.12	15.61	18.25	
18.	31-01-2019	58.89	41.24	16.41	19.81	BDL
19.	06-02-2019	58.24	40.19	14.98	17.70	
20.	07-02-2019	60.38	41.73	13.28	21.73	BDL
21.	13-02-2019	58.81	39.94	15.45	19.30	
22.	14-02-2019	58.41	42.09	15.74	23.18	BDL
23.	20-02-2019	59.36	40.71	14.72	23.11	
24.	21-02-2019	59.37	43.10	17.13	22.86	BDL
	Min.	58.24	39.80	13.28	17.70	0.00
	Max.	62.83	43.10	17.13	23.18	0.00
	Average	59.37	41.45	14.90	20.31	0
	98th Percentile	61.80	42.69	17.02	23.15	0

Page No. 2 of 2

Checked By:

A. Patel
(Chemist) / (Supervisor)

Tested By:

P. Patel
(Chemist) / (Sr. Chemist)

Approved By:

A. Patel
(Manager – Operations.)

AMBIENT AIR QUALITY MONITORING DATA	
Name & Address of Customer	: M/s. Entech Laboratories, 207, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005
Name of Project	: M/s. Woodbridge Foam Pvt. Ltd. Plot No. PE-44, Bol, GIDC, Sanand Phase-II Industrial Estate, Sanand, Ahmedabad-382170, Gujarat, India.
Monitoring Period	: Month of December – 2018 to February - 2019
Location of Monitoring	: Naranpura (A8)
Location Code	: 18/12-02/EIA/EL/WF/08

Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
1.	05-12-2018	56.23	38.55	11.77	19.91	BDL
2.	06-12-2018	57.55	37.77	11.66	19.54	
3.	12-12-2018	58.32	37.98	12.28	20.18	BDL
4.	13-12-2018	58.84	37.71	12.20	19.81	
5.	19-12-2018	58.27	37.80	11.65	19.96	BDL
6.	20-12-2018	58.95	39.51	11.95	20.88	
7.	27-12-2018	57.98	38.88	10.98	19.45	BDL
8.	28-12-2018	58.45	37.64	11.65	19.28	
9.	03-01-2019	58.32	37.75	11.75	19.56	BDL
10.	04-01-2019	57.32	37.58	10.90	20.88	
11.	10-01-2019	56.77	38.87	12.30	20.71	BDL
12.	11-01-2019	56.66	37.59	12.22	19.21	
13.	18-01-2019	57.84	39.61	10.93	20.24	BDL
14.	19-01-2019	57.55	37.59	11.88	20.38	

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Extended Work Office : G.I.D.C., Dahej-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051483

Location of Monitoring		: Naranpura (A8)				
Sr. No	Date of Monitoring	Test Parameter Results				
		PM ₁₀ µg/m ³	PM _{2.5} µg/m ³	SO ₂ µg/m ³	NO ₂ µg/m ³	VOC ppm
15.	25-01-2019	57.88	37.81	12.30	20.88	BDL
16.	26-01-2019	58.83	37.83	12.21	19.74	
17.	01-02-2019	58.90	37.63	11.61	19.25	
18.	02-02-2019	57.44	37.81	11.74	20.81	BDL
19.	08-02-2019	57.66	37.80	12.31	20.74	
20.	09-02-2019	56.40	37.54	12.32	20.73	BDL
21.	15-02-2019	58.75	37.94	11.88	19.30	
22.	16-02-2019	58.21	38.28	10.99	20.18	BDL
23.	22-02-2019	57.50	37.65	11.99	20.11	
24.	23-02-2019	58.28	37.63	12.78	20.41	BDL
	Min.	56.23	37.54	10.90	19.21	0.00
	Max.	58.95	39.61	12.78	20.88	0.00
	Average	57.87	38.03	11.84	20.09	0
	98th Percentile	58.93	39.56	12.57	20.88	0

Page No. 2 of 2

Checked By:

(Signature)
(Chemist) / (Supervisor)

Tested By:

(Signature)
(Chemist) / (Sr. Chemist)

Approved By:

(Signature)
(Manager - Operations.)

1 Surface Water



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MoEF&CC (GOI) Recognized Environmental Laboratory under the EPA-1986 [12.01.2015 to 11.01.2020]

QCNABET Accredited EA Consultant Organization

GPCB Recognized Environmental Auditor (Schedule-II)

ONASIS 9001:2007 Certified Company

ISO 9001:2015 Certified Company

TEST REPORT

Report No.	URC /19/02/EL-0114	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Boi (SWI) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No.19/02/EL-0114			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	--	7.5
2.	Temperature	IS 3025(Part 9)1984	°C	30
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	14
4.	Odour	IS 3025(Part 5)1983	--	Objectionable
5.	*Taste	IS 3025(Part 7)1984	--	Disagreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	4.4
7.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-D), (APHA 23 rd Ed., 2017, 2540-C)	mg/L	62
8.	Total Dissolved Solids	IS 3025(Part 16)1984	mg/L	200
9.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	1050
10.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B)	mg/L	4.8
11.	Bio-Chemical Oxygen Demand	IS 3025(Part 44)1993Amd.01	mg/L	18
12.	Chemical Oxygen Demand	IS 3025(Part 56)2006, APHA 23 rd Ed., 2017, 5220-B	mg/L	54
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009,Amd.1]	mg/L	228
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	174
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	54
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na.B	mg/L	30.44
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K.B	mg/L	10
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	54
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	45
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500 Cl)	mg/L	57
21.	Sulphate as SO ₄ ²⁻	IS 3025(Part 24)1986	mg/L	65.47
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.4
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	1.46
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F,D)	mg/L	0.91
26.	*Boron as B	IS 13428 Annexure - H	mg/L	N.D.
27.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	0.25
28.	Manganese as Mn	APHA 23 rd Ed., 2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
29.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.01)

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UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dahaj-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0114	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Boi (SW1) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0114			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
30.	Copper as Cu	IS 3025(Part 42)1997am.d.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
31.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
32.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)
33.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	192
34.	Nitrite as NO ₂	APHA 23 rd Ed.,2017, 4500NO ₂ B	mg/L	BDL(MDL:0.1)

Note: The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By :
J.P.D.

(Chemist)

Page 2 of 2

Checked By :
(N.P.E.)

(Sr. Chemist)

Approved By :
(P.S.V.)

(Technical Manager)

UERL/GHM/F-2/02

TEST REPORT

Report No.	URC /19/02/EL-0115	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Goraj (SW2) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0115			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	—	7.90
2.	Temperature	IS 3025(Part 9)1984	°C	32
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	14
4.	Odour	IS 3025(Part 5)1983	—	Objectionable
5.	*Taste	IS 3025(Part 7)1984	—	Disagreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	4.5
7.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-D),	mg/L	29
8.	Total Dissolved Solids	(APHA 23 rd Ed., 2017, 2540-C), IS 3025(Part 16)1984	mg/L	688
9.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	1032
10.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B),	mg/L	4.4
11.	Bio-Chemical Oxygen Demand	IS 3025(Part 44)1993Amd.01	mg/L	12
12.	Chemical Oxygen Demand	IS 3025(Part 58)2006, APHA 23 rd Ed., 2017, 5220-B	mg/L	36
13.	Total Hardness as CaCO ₃	(IS 3025(Part 21)2009, Amd.1)	mg/L	254
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	184
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	70
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na.B	mg/L	40.1
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K.B	mg/L	16
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	70
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	60
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	101
21.	Sulphate as SO ₄ ²⁻	IS 3025(Part 24)1986	mg/L	72.45
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.5
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	1.21
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F,D)	mg/L	0.84
26.	*Boron as B	IS 13428 Annexure - H	mg/L	N.D.
27.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	0.28
28.	Manganese as Mn	APHA 23 rd Ed., 2017, 3500 Mn.B	mg/L	BDL(MDL:0.1)
29.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.01)

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UERL/CHM/F-2/02

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Extended Work Office : G.I.D.C., Dahaj-HI, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

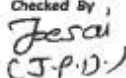
Report No.	URC /19/02/EL-0115	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Goraj (SW2) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0115			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
30.	Copper as Cu	IS 3025(Part 42)1992amnd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
31.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
32.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)
33.	Total Alkalinity as CaCO ₃	IS 3025(Part 23)1986, Amnd.2	mg/L	175
34.	Nitrite as NO ₂	APHA 23 rd Ed.,2017, 4500NO ₂ B	mg/L	BDL(MDL:0.1)

Note: The parameters marked with an *are not accredited by NABL, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By ,

(Chemist)

Page 2 of 2

Checked By

(Sr. Chemist)

Approved By

(Technical Manager)
UERL/CHM/F-2/02

TEST REPORT


Report No.	URC /19/02/EL-0116	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kalana (SW3) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0116			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	—	7.5
2.	Temperature	IS 3025(Part 9)1984	°C	32
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	12
4.	Odour	IS 3025(Part 5)1983	—	Objectionable
5.	*Taste	IS 3025(Part 7)1984	—	Disagreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	4.5
7.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-D)	mg/L	33
8.	Total Dissolved Solids	(APHA 23 rd Ed., 2017, 2540-C), IS 3025(Part 16)1984	mg/L	585
9.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	878
10.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O,B)	mg/L	4.6
11.	Bio-Chemical Oxygen Demand	IS 3025(Part 44)1993Amd.01	mg/L	15
12.	Chemical Oxygen Demand	IS 3025(Part 58)2006, APHA 23 rd Ed., 2017, 5220-B	mg/L	45
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009,Amd.1]	mg/L	215
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	167
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	48
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na.B	mg/L	40.38
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K.B	mg/L	12
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	48
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	74
20.	Chloride as Cl	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	72
21.	Sulphate as SO ₄ ²⁻	IS 3025(Part 24)1986	mg/L	64.4
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P,D	mg/L	0.7
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	1.65
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F,D)	mg/L	0.41
26.	*Boron as B	IS 13428 Annexure - H	mg/L	N.D.
27.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	0.35
28.	Manganese as Mn	APHA 23 rd Ed., 2017, 3500 Mn.B	mg/L	BDL(MDL:0.1)
29.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.01)

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Extended Work Office : G.I.D.C., Daheji-II, Bharuch, Gujarat.
CIN:U73100GJ2007PTC051463

TEST REPORT

Report No.	URC /19/02/EL-0116	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Kalana (SW3) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0116			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
30.	Copper as Cu	IS 3025(Part 42)1992:amd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
31.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
32.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)
33.	Total Alkalinity as CaCO ₃	(IS 3025(Part 23)1986, Amd.2)	mg/L	200
34.	Nitrite as NO ₂	APHA 23 rd Ed.,2017, 4500NO ₂ B	mg/L	BDL(MDL:0.1)

Note: *The parameters marked with an *are not accredited by NABL*, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By
Jesau
(J.P.D.)
(Chemist)

Page 2 of 2

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(R.P.S.)
(Sr. Chemist)

Approved By
(H.M.)
(Technical Manager)
UERL/CHM/F-2/02

TEST REPORT

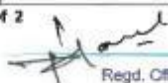
Report No.	URC /19/02/EL-0117	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Hirapur (SW4) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0117			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed., 2017, IS 3025(Part 11)1983	-	6.8
2.	Temperature	IS 3025(Part 9)1984	°C	31
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	13
4.	Odour	IS 3025(Part 5)1983	-	Objectionable
5.	*Taste	IS 3025(Part 7)1984	-	Disagreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	4.7
7.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed., 2017, 2540-D), (APHA 23 rd Ed., 2017, 2540-C), IS 3025(Part 16)1984	mg/L	50
8.	Total Dissolved Solids	IS 3025(Part 16)1984	mg/L	601
9.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	502
10.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed., 2017, 4500-O.B),	mg/L	4.0
11.	Bio-Chemical Oxygen Demand	IS 3025(Part 44)1993Amd.01	mg/L	12
12.	Chemical Oxygen Demand	IS 3025(Part 58)2006, APHA 23 rd Ed., 2017, 5220-B	mg/L	36
13.	Total Hardness as CaCO ₃	IS 3025(Part 21)2009,Amd.1	mg/L	261
14.	Calcium Hardness	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	187
15.	Magnesium Hardness	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	74
16.	Sodium as Na	APHA 23 rd Ed., 2017, 3500 Na.B	mg/L	56.85
17.	Potassium as K	APHA 23 rd Ed., 2017, 3500 K.B	mg/L	9
18.	Magnesium as Mg	(APHA 23 rd Ed., 2017, 3500 Mg.B)	mg/L	74
19.	Calcium as Ca	(APHA 23 rd Ed., 2017, 3500 Ca.B)	mg/L	58
20.	Chloride as Cl ⁻	(APHA 23 rd Ed., 2017, 4500-Cl)	mg/L	79
21.	Sulphate as SO ₄ ⁻²	IS 3025(Part 24)1986	mg/L	87.51
22.	*Phosphorous as P	APHA 23 rd Ed., 2017, 4500-P.D	mg/L	0.8
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed., 2017, 4500 NO3-B)	mg/L	1.61
25.	Fluoride as F	(APHA 23 rd Ed., 2017, 4500 F.D)	mg/L	0.59
26.	*Boron as B	IS 13428 Annexure - H	mg/L	N.D.
27.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	0.39
28.	Manganese as Mn	APHA 23 rd Ed., 2017, 3500 Mn.B	mg/L	BDL(MDL:0.1)
29.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.01)

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CIN:U73100GJ2007PTC051463

TEST REPORT

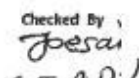
Report No.	URC /19/02/EL-0117	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Hirapur (SW4) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0117			

TEST RESULTS

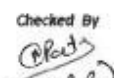
Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
30.	Copper as Cu	IS 3025(Part 42)1992amdt.01, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.05)
31.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.05)
32.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed., 2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	155
34.	Nitrite as NO ₂	APHA 23 rd Ed., 2017, 4500NO ₂ B	mg/L	BDL(MDL:0.1)

Note: *The parameters marked with an *are not accredited by NABL*, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By

(J.P.D.)
(Chemist)

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(Sr. Chemist)

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(Technical Manager)
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2 Ground Water



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MoEF&CC (GOI) Recognized Environmental
Laboratory under the EPA-1986(12.01.2015 to 11.01.2025)

QCMABET Accredited BA
Consultant Organization

GPCB Recognized Environmental
Auditor (Schedule-I)

ISO 9001:2007
Certified Company

ISO 9001:2015
Certified Company

TEST REPORT

Report No.	URC /19/02/EL-0118	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Boi (GW1) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0118			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
1.	pH	APHA 23 rd Ed.,2017, IS 3025(Part 11)1983	—	7.6
2.	Temperature	IS 3025(Part 9)1984	°C	33
3.	Colour	IS 3025(Part 4)1983	Hazen Unit	6
4.	Odour	IS 3025(Part 5)1983	—	Unobjectionable
5.	*Taste	IS 3025(Part 7)1984	—	Agreeable
6.	Turbidity	IS 3025(Part 10)1984	NTU	1
7.	Total Dissolved Solids	(APHA 23 rd Ed.,2017, 2540-C), IS 3025(Part 16)1984	mg/L	244
8.	Total Suspended Solids	IS 3025(Part 17)1984, Amd.1 (APHA 23 rd Ed.,2017, 2540-D),	mg/L	24
9.	Total Solids	IS 3025(Part 15)1984, Amd.1 (APHA 23 rd Ed.,2017, 2540-B),	mg/L	268
10.	Conductivity at 25 °C	IS 3025(Part 14)1984	µS/cm	378
11.	Dissolved Oxygen	IS 3025(Part 38)1989, (APHA 23 rd Ed.,2017, 4500-O.B),	mg/L	3.2
12.	Total Alkalinity as CaCO ₃	[IS 3025(Part 23)1986, Amd.2]	mg/L	202
13.	Total Hardness as CaCO ₃	[IS 3025(Part 21)2009,Amd.1]	mg/L	205
14.	Calcium Hardness	(APHA 23 rd Ed.,2017, 3500 Ca.B)	mg/L	120
15.	Magnesium Hardness	(APHA 23 rd Ed.,2017, 3500 Mg.B)	mg/L	85
16.	Sodium as Na	APHA 23 rd Ed.,2017, 3500 Na.B	mg/L	178
17.	Potassium as K	APHA 23 rd Ed.,2017, 3500 K.B	mg/L	4.5
18.	Magnesium as Mg	(APHA 23 rd Ed.,2017, 3500 Mg.B)	mg/L	10
19.	Calcium as Ca	(APHA 23 rd Ed.,2017, 3500 Ca.B)	mg/L	62
20.	Chloride as Cl ⁻	(APHA 23 rd Ed.,2017, 4500-Cl)	mg/L	187
21.	Sulphate as SO ₄ ²⁻	IS 3025(Part 24)1986	mg/L	80.12
22.	*Phosphorous as P	APHA 23 rd Ed.,2017, 4500-P,D	mg/L	0.51
23.	Phenolic Compounds	IS 3025(Part 43)1992, Amd. 2	mg/L	BDL(MDL:0.01)
24.	Nitrate as NO ₃	(APHA 23 rd Ed.,2017, 4500 NO3-B)	mg/L	4.2
25.	Fluoride as F	(APHA 23 rd Ed.,2017, 4500 F,D)	mg/L	0.42
26.	*Boron as B	IS 13428 Annexure - H	mg/L	0.14
27.	Total Arsenic as As	APHA 23 rd Ed.,2017, 3114-C	mg/L	BDL(MDL:0.01)
28.	Cyanide as CN	IS 3025(Part 27)1986	mg/L	BDL(MDL:0.05)

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CIN:U73100GJ2007PTC051483

TEST REPORT

Report No.	URC /19/02/EL-0118	Date Of Report	14/02/2019
Name & Address of Customer	M/s. ENTECH LABORATORIES 202, Trade Square, Opp. Torrent Power House, Sabarmati, Ahmedabad, Gujarat 380005		
Sample Details	Bol (GW1) Water Sample	Sample Qty.	5 Lit
Sampling Date	08/02/2019	Sample Received Date	08/02/2019
Sampled By	Us.	Appearance Of Sample	Colourless
Test Started Date	08/02/2019	Test Completion Date	13/02/2019
UERL Lab Sample ID.No. 19/02/EL-0118			

TEST RESULTS

Sr. No.	Parameters	Test Method	Unit Of Measurement	Results
29.	Iron as Fe	IS 3025(Part 53)2003, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.1)
30.	Manganese as Mn	APHA 23 rd Ed.,2017, 3500 Mn B	mg/L	BDL(MDL:0.1)
31.	Lead as Pb	IS 3025(Part 47)1994Amd.02, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.01)
32.	Copper as Cu	IS 3025(Part 42)1992amd.01, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
33.	Zinc as Zn	IS 3025(Part 49)1994, (APHA 23 rd Ed.,2017, 3111-B)	mg/L	BDL(MDL:0.05)
34.	Total Chromium as Cr	IS 3025(Part 52)2003, (APHA 23 rd Ed.,2017,3111-B)	mg/L	BDL(MDL:0.05)

Note: *The parameters marked with an *are not accredited by NABL*, BDL = Below Detection Limit, N.D. = Not Detectable,
MDL = Minimum Detection Limit,

***** End of Report *****

Checked By
J.P.D.

(Chemist)

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Checked By
R.P.

(Sr. Chemist)

Approved By
(Signature)

(Technical Manager)

UERL/CHM/F-2/02

be identified. Baseline studies may be conducted within the study area for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.

38. One complete season base line ambient air quality data (except monsoon season) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards (NAAQS) as well as project specific parameters like NH₃, HCl, CL₂, HBr, VOC etc. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
39. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modeling should be superimposed on satellite Image / geographical area map.
40. Base line status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
41. Specific details of
 - a) Process gas emission from each unit process with its quantification.
 - b) Air pollution Control Measures (APCM) proposed for process gas emission. Adequacy of the air pollution control measures (APCM) for process gas emission measures to achieve the GPCB norms.
 - c) Details of the utilities required.
 - d) Type and quantity (MT/hr & MT/Day) of fuel to be used for each utility.
 - e) Flue gas emission rate emission from each utility.
 - f) Air Pollution Control Measures (APCM) proposed to each of the utility along with its adequacy
 - g) List the project specific sources of fugitive emission along with its quantification and proposed measures to control it.
 - h) Details on tail gas treatment.(If any)
42. Provision of CEMS (Continuous Emission Monitoring system).
43. Action plan for odour control to be submitted.
44. Management plan for hazardous/Solid waste including storage, handling, utilization and safe disposal as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016. CPCB guidelines in respect of specific treatment, such as solar evaporation, incineration, etc., need to be followed.
45. How the manual handling of the hazardous wastes will be minimized? Methodology of de-contamination and disposal of discarded containers and its record keeping.
46. Management of by-products which fall under the purview of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016 as per the said rules and necessary permissions from the concern authority.
47. Membership of Common Environmental Infrastructure like TSDF, Common Incineration Facility (CHWIF), MEE, Spray dryer etc.
48. Name and quantity of each type of solvents to be used for proposed production. Details of in-house solvent recovery system including mass balance, solvent loss, recovery efficiency (% recovery), feasibility of reusing the recovered solvents etc. for each type of solvent.
49. Appropriate monitoring network has to be designed and proposed, to assess the possible residual impacts on VECs.
50. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.



Annexure - I

51. Details of in-house monitoring capabilities and the recognized agencies if proposed for conducting monitoring.
52. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
53. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
54. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures. Proposal for Leak Detection and Repair (LDAR) program as per the CPCB guidelines.
55. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
56. MSDS of all the products and raw materials.
57. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
58. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction (MoC) of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
59. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
60. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
61. Specify safety precautions to be taken for Chemical storage, process, handling & transportation hazard.
62. Details on workers training before engaging work, periodical, in-house, outside etc.
63. Details on various SOP to be prepared.
64. Details on safety audit to be carried out and their compliance status.
65. Specific safety measures to be taken for general Public living in the vicinity.
66. Details on hazard identification i.e. HAZOP, HAZAN, Fault tree analysis, Event tree analysis, Checklist, Audit etc. to be adopted for the safety operation of the plant.
67. Detection and monitoring of VOC's / gases.
68. Detailed five year greenbelt development program including annual budget, planning schedule, species, width of plantations, number of trees to be planted, area under green belt development [with map], budgetary outlay etc. along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
69. Action plan for the greenbelt development – species, width of plantations, planning schedule, etc., in accordance to CPCB published guidelines.
70. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
71. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report. (b). Does the Environment Policy prescribe for standard operating

process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.



72. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
73. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
74. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
75. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
76. An undertaking by the Project Proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009.
77. All documents to be properly referenced with index and continuous page numbering.
78. Where data are presented in the Report especially in Tables, the period in which the data were collected and the sources should be indicated.
79. Project Proponent shall enclose all the analysis/testing reports of water, air, soil, noise etc. using the MoEF&CC/NABL accredited laboratories. All the original analysis/testing reports should be available during appraisal of the Project.
80. In case of Expansion of the project
 - a. Need for the proposed expansion should be justified in detail.
 - b. Adequacy of existing EMS (Environmental Management System).
 - c. Explore the possibility to achieve Zero Liquid Discharge (ZLD) for existing as well as proposed activity.
 - d. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.
 - e. Copies of Environmental Clearances obtained for the existing plant, its point wise compliance report.
 - f. Environmental audit reports for last 3 years and compliance of its recommendations/Suggestions. (Include latest audit report and its compliance.)
 - g. Copy of Consent to Operate (CC&A) obtained along with point wise compliance status of all the conditions stipulated therein.
 - h. Compliance of MoEF&CC circulars vide No: J-11011/618/2010-IA.II (I) dated 30/05/2012 and J-11013/41/2006-IA-II(I) dated 20/10/2009.
 - i. Copies of XGN generated Inspection reports with analysis reports of the water/Air/Hazardous samples collected by GPCB (Last 2 year). Copies of instructions issued by GPCB in last 2 year and point wise compliance thereof.
81. In case of project is located in Ankleshwar-Panolli, Vatva-Narol & Vapi GIDC.
 - (A) Compliance of MOEF&CC's OM no. J-11013/5/2010-IA.II (I) dated 25/11/2016 regarding lifting of moratorium on the consideration of projects for environmental clearance.
 - (B) Compliance of direction under section 18 (1) (b) of the Water (Prevention and Control of Pollution) act, 1974 issued by CPCB dated 31/03/2016 regarding compliance of CETP.
 - a) Action initiated by GPCB, if any, against proposed unit regarding non-compliance of prescribed standards under the various environmental laws.
 - b) Performance of CETP with respect to current hydraulic load & prescribed standards with No Objection Certificate of CETP regarding incorporation of the proposed unit for acceptance of waste water.
 - c) Performance of TSDF site with respect to current load & prescribed standards with No Objection Certificate of TSDF site regarding incorporation of the proposed unit for acceptance of hazardous waste to the common infrastructure.
 - d) Copies of quarterly action report taken for the above points submitted to the CPCB.
 - e) Report of GPCB which have conducted monitoring as per the said direction by CPCB dated 31/03/2016.

Validity of ToR:

- The ToRs prescribed for the project will be valid till 28/06/2021 for submission of EIA & EMP report.
- The period of validity could be extended for a maximum period of one year provided an application is made by the applicant to the Regulatory Authority, at least three months before the expiry of validity period together with an updated Form-I, based on proper justification and also recommendation of the SEAC.

ANNEXURE II GIDC PLOT HOLDING CERTIFICATE AND WATER SUPPLY PERMISSION

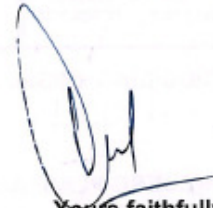
1. GIDC Plot Holding Certificate

 GUJARAT INDUSTRIAL DEVELOPMENT CORPORATION	Gujarat Industrial Development Corporation (A Govt. of Gujarat Undertaking) Office of the Regional Manager, GIDC o/o Regional Manager-2, Plot no SM-39/1, Sanand Industrial Estate, Near Shiyawada Cross Road, GIDC, Sanand. Email ld-rmahd2@gidcgujarat.org, website: www.gidc.gujarat.gov.in	 150 YEARS OF CELEBRATING THE MAHATMA
NO.GIDC/RM/AHM/Sub-Let/PO/SAN1/1 /786		Date :16/05/2019
<p>✓ TO, SONNEBERG PLASTIC SYSTEMS INDIA PVT. LTD Plot No. PE-44, BOL, GIDC, Sanand Phase -II, Industrial Estate, Sanand, Ahmedabad 382170</p>		
<p>Sub: Permission for Subletting of Plot No. PE-44 at Sanand - II Industrial Estate.</p>		
<p>Dear Sir,</p> <p>Plot No. PE-44 along with the land there under adm. 10000.00 sq.mtrs. at Sanand - II estate is held by SONNEBERG PLASTIC SYSTEMS INDIA PVT. LTD. The Agreement was executed on 31-12-2011. The Licensee has now requested the Corporation to grant permission for sub-letting an area admeasuring 10000.00 sq.mtrs. to Woodbridge Foam Pvt Ltd for a period of 4(Four) years i.e. from 01-01-2019 to 31-12-2022 for Manufacturing of Foam Seats for Motor Vehicles use. You are requested to provide the following details.</p> <ol style="list-style-type: none">1. All outstanding dues, installment, water charges dues and Notified Area Taxes etc. shall be paid by you within a period of 30 days and produce the copy of the Money receipts.2. You shall have to make online payment of Rs. 5352480.00/- towards applicable subletting charges being 12% at the prevailing Industrial price of Sanand - II estate.3. Woodbridge Foam Pvt Ltd shall have to execute an undertaking on stamp paper of Rs.100/- to the effect that all the rules and regulations prevailing in the Corporation from time to time shall be final and binding to him.4. No additional infrastructure will be provided by the Corporation to Woodbridge Foam Pvt Ltd. It shall be responsibility of the original lessee to pay the revenue charges i.e. SC, NAA and LR for the whole area during the currency of this sub-letting.5. It shall be responsibility of the original Lessee to pay the revenue charges, i.e. Service charges, N.A. Assessment and Lease rent for the whole area during the currency of this sub-letting.6. The permission shall be valid only for a period of 4(Four) years and upon expiry of the said period this permission shall stand automatically cancelled.7. The subletted area is to be utilize for Manufacturing of Foam Seats for Motor Vehicles purpose only.8. You shall have to produce No Due Certificate/NOC from industrial estate association/notified area if applicable.		

9. If the above details are not fulfilled within a period of 30 days from the date of this order, the provisional subletting permission shall stand automatically cancelled.

10. You shall have to produce No Due Certificate from Bank/Financial Institute if 2(r) permission taken.

Thanking you,



Yours faithfully
Regional Manager
G.I.D.C Ahmedabad

2. Water Supply Permission

Water supply permission obtained from Gujarat Industrial Development Corporation (GIDC), Sanand with the name of M/s. Sonneberg Plastic Systems India Pvt. Ltd. (SPSIPL) because SPSIPL has given land on sub-lease to M/s. Woodbridge Foam Pvt. Ltd. as per above plot holding certificate.



Gujarat Industrial Development Corporation

(A Govt. Of Gujarat Undertaking)

O/o. Regional Manager, GIDC Office, Plot No.SM/39/1,

Shiyavada Cross Road, Opp. Ford Motors, Sanand-II, Ahmedabad.

No.GIDC/RM/AMD-II/ALT/Sanand-II/ 979

Date: 25/06/2019

CORRIGENDUM ORDER

By R.P.A.D.

To,
M/s Sonneberg Plastic System India Pvt. Ltd.,
Plot No. PE-44, GIDC Sanand-II Industrial Estate,
Sanand,, Dist.Ahmedabad

Sub: - Corrigendum For Water requirement Of Industrial Plot No.PE-44
at Sanand-II Industrial Estate.

Ref: - [1] Your online application dated: - 13/06/2011
[2] This office allotment letter no. 6663, dated: - 03/09/2011.
[3] Agreement dtd. 08/12/2011
[4] Your representation dated. 13/06/2019.

Dear Sir,

M/s Sonneberg Plastic System India Pvt. Ltd., had applied to the Corporation for allotment of plot for industrial purpose vide their application under reference no. 1. Corporation has allotted Plot No. PE-44, area admeasuring 10,000.00 Sq. Mtrs. at Sanand-II Industrial Estate vide OCA Letter under ref.No. 2 and agreement has been executed on dtd. 08/12/2011 vide under ref. No. 3. At the time of OCA and agreement the water requirement was stated 1 KL/day. Then this office has received your representation dtd.13/06/2019 for increase of water requirement from 1 KL/day to 6.2 KL/day. The same has been consider by this office. Thus by this corrigendum order it is hereby ordered to read water requirement as 6.2 KL/day instead of 1 KL/day in the above stated OCA Letter & Agreement.

All other terms and conditions of above referred OCA Letter & Agreement remain same.

Yours faithfully,

Regional Manager,
GIDC, Ahmedabad-II.

CC to...

1. Accounts Officer, GIDC, Ahmedabad-II.....for further necessary action please.
2. Executive Engineer, GIDC, Ahmedabad.
3. Dy. Executive Engineer, GIDC, Sanand-II.