COMPLAINCE REPORT (MOEF)
Environment Clearance No : J-11011/29/2005-IA II (I)
Date of issue : 14/06/2005
M/S Ramco Industries Limited
Survey No.78/12 & 78/15,
Village: Sinugra Tal. Anjar,
Dist: Kutch, Gujarat - 370110

1	The project proponent shall adhere to the prescribed BIS standard and laws regarding use and handling of asbestos, safety of employees etc. Raw material like asbestos fibre and cement should be transported in closed containers. Asbestos fibre should be brought in palletized from, in impermeable bags and under compressed condition.	We have complied with the said condition The Raw materials are transported in closed containers. Asbestos is brought in impermeable bags under compressed condition.
2	Blue asbestos shoulnot be utilized as raw material in the manufacturing process. A written commitment in this regard should be furnished within a period of one month.	We have complied with the said condition. We use only chrysotile fibre.
3	There should be no manual handling / opening of asbestos fibre bags. The company should install fully automatic asbestos fibre debagging system before commissioning the unit.	There is no manual handling/opening of asbestos fibre bags. Fibre is stored in polythene woven bags and unloaded in the automatic bag opening device (BOD) wherein the bags are automatically shredded. Thus no manual handling comes into picture due to installation of fully automatic asbestos fibre debagging system.
4	Fugitive emission generated from hopper of Jaw crusher and pulverizer should be channelized through hood with proper suction arrangement, bag filter and stack.	We have complied with the said condition.
5	The company shall comply with total dust emission limit of 2mg/Nm3 as notified under the environment (Protection) Act, 1986, Adequate measures should be adopted to control the process emission and ensure that the stack emission of asbestos fibre should not exceed the emission limit of 0.2 fibre /cc. Further, in the work zone area the fibre count should not exceed 0.1 fibre/cc.	We comply with the stated emission standards. Stack Monitoring record attached. **Annexure-I** Work place monitoring report attached.
6	The air pollution control measures such as bag filters should be interlocked with the manufacturing process. In the event of failure of any pollution control system, the unit should be put out of operation immediately and should not be restarted until the control system is rectified to achieve the desired efficiency.	Complete closed circuit manufacturing process consist of altogether four dust collector (Fibre Dust Collector, Cement dust collector, Flyash dust collector and pulverized dust collector. with bag filters interlocked with the manufacturing process. In the event of failure of any pollution control system, the unit will be put out of operation immediately and all conditions complied thereof.

7	Bags containing asbestos fibre should be stored in enclosed area to avoided fugitive emission of asbestos fibre from damaged bags, if any.	The bags containing asbestos are stored in an enclosed Asbestos fibre storage area of about 600 m2.
8	Better housekeeping practices should be adopted for improvement of the environment within the work environment. These include: a. All monitoring transfer points should be connected to dust extraction system. b. Leakages or dust from machines and ducts should be plugged. c. Floor should be cleaned by vacuum cleaner only. d. Enclosed belt conveyor should be used instead.	Proper housekeeping facility with vacuum cleaning of the floors is provided in the plant area. We have a complete closed circuit manufacturing process with enclosed belt conveyor.
9	Regular measurement of pollutants (SPM, asbestos fibre count) in the work zone area and stack (s) should be undertaken by setting up a dedicated laboratory. In addition, the asbestos fibre count in the work zone area should be got monitored by an independent monitoring agency like NIOH, ITRC/NCB etc on six monthly basis. The monitored data should be submitted to the state pollution control board once in three months and to this Ministry every six months.	We have our own laboratory setup with contrast Microscope for SPM % fibre/cc measurement of workplace and stack. In addition to that the Asbestos fibre count in the work zone and the stack are tested by a competent & approved third party monitoring agency. The details of tested data at our site by the third party is enclosed in **Annexure –II**.
10	As reflected in the environmental Management plan, there will be no discharge of process effluent. The entire process effluent should be reused/recycled in the manufacturing process. The domestic waste water should be adequately treated in a sewage treatment plant and used for green belt development.	There is no discharge of process effluent and entire process water is recycled back into the system.
11	The company shall ensure that the entire solid waste generated including process rejects, dust from bag filters and empty asbestos bag should be recycled in the manufacturing process. The disposal facilities for asbestos waste should be in accordance with the Bureau of Indian Standard Code.	The Asbestos fibre bags are shredded in the BOD and is mixed with fibre in ERM and is added as raw material and consumed in manufacturing. The dust collected through bag filters are reused as raw material back into the manufacturing process. Product wastes generated form quality inspection/testing are pulverized and the dry powder is added and consumed as raw material in the manufacturing process. The wastes/ process rejects generated during machine maintenance period are crushed to slurry from using ball mill and recycled back into the manufacturing system. Thus we have adopted "Zero waste disposal system" in our factory.

12	The cut and damaged fibre bags should immediately be repaired. Piling of AC sheets should be done in wet condition only.	We always ensure that we get fibre bags intact. Damages if any would immediately be sealed before unloading at our site. There is no manual handling /opening of the fibre bags. The fibre bags are fed into a bag opening device (BOD) wherein bags are automatically shredded.
13	Proper house keeping should be maintained within the plant premises. Process machinery, exhaust and ventilation systems will be laid in accordance with Factories Act.	Proper housekeeping facility with vacuum cleaning of the floors is provided in the plants area. We have complete closed circuit manufacturing process with enclosed belt conveyor.
14	Regular medical examination of workers and health monitoring of the employees should be carried out and record maintained up to minimum 40 years from the beginning of employment or 15 years after retirement or cessation of employment whichever is lower . A competent occupational health physician should be appointed to carry out medical surveillance. The occupational health monitoring must be strengthened to include periodic (six month) sputum test by x-Ray test annually. The company should also provide medical and health care facilities at the work place and if cases of asbestosis are detected, necessary compensation should be arranged under the existing laws.	Medical examinations of employees are carried out by competent occupational health physician periodically for Sputum test, Lung Function test (PFT), Chest X –Ray and general medical check up. Pre employment tests are also carried out as per factory act and all record pertaining to health check up are maintained as per IS 11451 and factory act. Specimen medical report is attached.
15	To educate the workers, all the work places where asbestos dust may cause a hazard should be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	We have provided display signs of Asbestos fibre for identifying the hazards and associated health effects.
16	The company should also undertake water harvesting measures and plan of action should be submitted to Ministry of Environment and Forests within three months.	The rain water harvesting system is being adopted.
17	The company shall obtain permission for ground water drawl or water to be drawn from Narmada canal supply from the state Government authorities.	A certificate from "Gujarat Water infrastructure Ltd" is attached Annexure – III as the end of this report.
18	Green belt should be provided to mitigate the effects of fugitive emissions all around the plant. A minimum of 33% of the projects area should be developed as green belt with local species in consultations with DFO as per CPCB guidelines.	An effective green belt area is developed in consultation with DFO as per CPCB guidelines. Our developed green belt area is about 17,000 m^2 which is 33.8% of our total land area.
	B. General conditions.	
19	The projects authorities must strictly adhere to the stipulations made be the Gujarat Pollution Control Board and the State Government.	We strictly adhere to the stipulations made be the Gujarat Pollution Control Board and the State Government.

20	No further expansion /modification in the plant should be carried out without prior approval of the Ministry of Environment and forests.	No further expansion /modification in the plant is carried out.
21	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste. (Management & Handling) Rules 2003.	We strictly adhere to the stipulations made by the Ministry of Environment Forests.
22	The project proponent shall also comply with all the recommendations made by the Public Hearing Panel and safeguards recommended in the EIA/EMP Report.	We shall adhere to the recommendation made by the public hearing panel and safeguard recommended in the EIA/EMP report.
23	The project authorities will set up a separate environmental management cell for effective implementation of all the above, stipulations under control of Sr. Executive.	We have a separate environment cell headed by the Works Head of the factory for effective implementation environment protection.
24	The project authorities will provide separate funds both recurring and non-recurring to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purposes.	Our Environmental Expenses details for the July'12 to March'13 Amount Rs. 2,75,266/-
25	The Regional office of this Ministry at Bhopal / Central pollution control Board /State Pollution Control Board will monitor the stipulated conditions. A six monthly compliance status report and the monitored data along with statistical interpretation should be submitted to them regularly.	We are sending in the six monthly compliance reports along with test reports of EC condition to the MOEF Regional office, Bhopal.
26	The project proponent should inform the public that the projects has been accorded environment clearance by the Ministry and copes of the clearance letter are available with the State Pollution Control Board / Committee and may also be seen at website of the Ministry of Environment and Forests at http:/envtor.nic.in. This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of same should be forwarded to the Regional office.	Complied.
27	The project authorities should inform the Regional office as well as the Ministry, the data of financial closure and final approval of the project by the concerned authorities. And the date of commencing the land development work, if any,	Complied.

For, Ramco Industries Limited

Lokendra Agrawal
General Manager (Works)

ANNEXURE - I

RAMCO INDUSTRIES LIMITED

WORK PLACE FIBRE MONITORING PERIODICAL REPORT

PLANT	ANJAR						
Measuring Point	Periodical Report						Permissible limit value (f/cc)
Sampling Period	Oct-12	Nov-12	Dec-12	Jan-13	Feb-13	Mar-13	
Asbestos storage	0.096	0.079	0.091	0.094	0.094	0.091	0.1
Bag opening device	0.075	0.075	0.079	0.083	0.066	0.079	0.1
Slurry mixer	0.050	0.066	0.062	0.073	0.062	0.073	0.1
Sheeting Machine	0.044	0.048	0.052	0.062	0.052	0.050	0.1
Corrugator	0.071	0.052	0.046	0.058	0.050	0.052	0.1
Loading area	0.033	0.050	0.037	0.042	0.042	0.039	0.1
Q.C. Laboratory	0.048	0.064	0.038	0.042	0.044	0.046	0.1
Moulding	0.046	0.048	0.032	0.037	0.038	0.042	0.1

Quality control.

For, Ramco Industries Limited

Lokendra Agrawal
General Manager (Works)

ANNEXURE - II

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Laboratory Division
[illegible]

TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/12/12/S/01001	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/001	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/FDS/S-12/12/001	Field Data Sheet No.	UERL/AIR/FDS/S- 12/12/001
Name & Add. of Customer	M/s. Ramco Industries Ltd. Survey No. 78/1, 78/1A, Village: Siracha, Taluka: Anjar, District: Kutch, Gujarat - 370 110		
Date of Sampling	21.12.2012	Date of Testing	21/12/2012
Stack Sampling Attached to	**Cement Dust Collector**		
Air Pollution Control Device	Bag Filter		

- Details of Instrument Used for Monitoring

Instrument Id No.	UERL/AIR/SMK-05		
Instrument Name	**Stack Monitoring Kit, VSSI**	Serial Number	**436 DTB 08**
Calibration Date	01/09/2012	Next Calibration Due On	31/08/2013

- General Stack Monitoring Observation

Sr. No	Description	Unit of measurement	Observation
1	Stack Height	m	15
2	Stack Dia	mm	400
3	Stack Area	m^2	0.1256
4	Ambient Temperature	°C	32
5	Exit Velocity	m/s	18.45
6	Exit Flow	m^3/h	8342

- Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Test Method
1	Particulate Matter	mg/Nm³	96	**150**	IS 11255(Part 1)

NOTE:

1. The results [illegible] to the [illegible] sample and applicable parameter at the time of testing.
2. This report shall not be reproduced, except in full, without approval of "Unistar Environment & Research Labs Pvt. Ltd., Vapi.
3. [illegible] Standard, CPCB: Central Pollution Control Board, N.D: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-Dispersive Infrared Detector.
4. [illegible]

Sampling Done By:
(Chemist)
CA.R.D

Tested By:
(Chemist) (Sr. Chemist)
(N.B.T.)

Authorized By:
(Sr. Chemist)
(J.S.T.)

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Environment & Research Labs Pvt. Ltd.

Laboratory Division
Office: Char Rasta
Phone: 91 260 2425986 / 91 260 2425610
Website: www.unistar.co.in

TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/12/12/S/R1002	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/002	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/S/12/12/002	Field Data Sheet No.	UERL/AIR/FDS/S-12/12/002
Name & Add. of Customer	M/s. Ramco Industries Ltd. Survey No. 96/2, 96/3 Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat - 370 110		
Date of Sampling	21/12/2012	Date of Testing	21/12/2012
Stack Sampling Attached to	Fibre Dust Collector		
Air Pollution Control Device	Bag Filter		

- Details of Instrument Used for Monitoring

Instrument Id No.	UERL/AIR/SMK/05		
Instrument Name	Stack Monitoring Kit, VSSI	Serial Number	436 DTB 08
Calibration Date	01/09/2012	Next Calibration Due On	31/08/2013

- General Stack Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Stack Height	m	15
2	Stack Dia	mm	300
3	Stack Area	m^2	0.0706
4	Ambient Temperature	°C	32
5	Exit Velocity	m/s	22.10
6	Exit Flow	m^3/h	9616

- Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Test Method
1	Asbestos Fibre	fibre*/cc	0.03	0.2	CPCB
2	Total Dust	mg/Nm³	1.11	2	CPCB

* Fiber of length more than 5 µm and diameter less than 3 µm.

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
2. This test report shall not be reproduced except in full without approval of "UniStar Environment & Research Labs Pvt. Ltd., Vapi.n
3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-Dispersive Infrared Detector
4. SEE ANNEXURE-I FOR DETAILS OF TEST METHOD

Sampling Done By:
Patel
(Chemist)
(C.A.R.A)

Tested By:
(Chemist) (Sr. Chemist)
(N.B.T.)

Authorized By:
(Sr. Chemist)
(J.S.T)

UERL/AIR/F-04/00

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TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/12/12/S-R1003	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/003	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/ID-S-12/12/003	Field Data Sheet No.	UERL/AIR/FDS/S- 12/12/003
Name & Add of Customer	M/s. Ramco Industries Ltd. Survey No. 78/12, 78/15 Village Sanugra, Taluka Anjar, Distt. Kutch, Gujarat		
Date of Sampling	21/12/2012	Date of Testing	21/12/2012
Stack Sampling Attached to	Fly Ash Dust Collector		
Air Pollution Control Device	Bag Filter		

- Details of Instrument Used for Monitoring

Instrument Id No.	UERL/AIR/SMK-05		
Instrument Name	Stack Monitoring Kit, VSSI	Serial Number	436 DTB 08
Calibration Date	01/09/2012	Next Calibration Due On	31/08/2013

- General Stack Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Stack Height	m	15
2	Stack Dia	mm	400
3	Stack Area	m²	0.1256
4	Ambient Temperature		32
5	Gas Velocity		21.50
6	Gas Flow		11077

- Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Test Method
1	Particulate Matter	mg/Nm³	80	150	IS 11255(Part 1)

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
2. The test report shall not be reproduced except in full without approval of Unistar Environment & Research Labs Pvt. Ltd., Vapi.
3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-dispersive Infrared Detector
4. [illegible]

Sampling Done By:
(Chemist)
(A.R.P)

Tested By:
(Sr. Chemist)
(N.B.T)

Authorized By:
(Sr. Chemist)
(J.S.T)

UERL/AIR/F-04/00

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TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/12/12/S/R1004	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/004	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/ID/S/12/12/004	Field Data Sheet No.	UERL/AIR/FDS/S- 12/12/004
Name & Add. of Customer	M/s. Ramco Industries Ltd. Survey No. 78/2, 78/15, Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat - 370 110		
Date of Sampling	21/12/2012	Date of Testing	21/12/2012
Stack Sampling Attached to	Pulveriser		
Air Pollution Control Device	Bag Filter		

- Details of Instrument Used for Monitoring

Instrument Id No.	UERL/AIR/SMK/05		
Instrument Name	Stack Monitoring Kit, VSSI	Serial Number	436 DTB 08
Calibration Date	01/09/2012	Next Calibration Due On	31/08/2013

- General Stack Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1	Stack Height	m	10
2	Stack Dia	mm	250
3	Stack Area	m^2	0.0490
4	Ambient Temperature	°C	32
5	Exit Velocity	m/s	25.30
6	Exit Flow	[illegible]	1462

- Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Test Method
1	Particulate Matter	mg/Nm³	90	150	IS 11255 Part 1)

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
2. The test report shall not be reproduced except in full without approval of "UniStar Environment & Research Labs Pvt. Ltd., Vapi.n
3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-dispersive Infrared Detector
4. STACK MONITORING CARRIED OUT AS PER CPCB GUIDELINES

Sampling Done By:	Tested By:	Authorized By:
(Chemist)	(Chemist) (Sr. Chemist)	(Sr. Chemist)
(C.A.P.)	(N.B.T.)	(J.S.T.)

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[illegible]

TEST REPORT
(STACK MONITORING)

Test Report No.	UERL/12/12/S R1005	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/005	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/FDS/S/12/12/005	Field Data Sheet No.	UERL/AIR/FDS/S- 12/12/005
Name & Add. of Customer	M/s. Ramco Industries Ltd. Survey No. 78/2, 78/15, Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat - 370 110		
Date of Sampling	21/12/2012	Date of Testing	21/12/2012
Stack Sampling Attached to	D. G. Set		
Air Pollution Control Device	--		
Fuel Used	Diesel		

- Details of Instrument Used for Monitoring

Instrument Id No.	UERL/AIR/SMK/05		
Instrument Name	Stack Monitoring Kit, VSSI	Serial Number	436 DTB 08
Calibration Date	01/09/2012	Next Calibration Due On	31/08/2013

- General Stack Monitoring Observation

Sr. No.	Description	Unit of measurement	Observation
1.	Stack Height	m	13
2.	Stack Dia	mm	300
3.	Stack Area	m^2	0.0706
4	Ambient Temperature	°C	32
5	Flue Gas Temperature	°C	290
6	Exit Gas Velocity	m/s	25.07
7	Exit Gas Flow	m^3/h	6371

- Test Parameter Results

Sr. No.	Test Parameter	Unit of measurement	Result	Specific Value	Test Method
1	Particulate Matter	mg/Nm³	11	150	IS 11255(Part 1)
2	Sulphur Dioxide	ppm	34	100	IS 11255(Part 2)
3	Oxide of Nitrogen	ppm	19	50	IS 11255 (PART 7)

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
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3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-dispersive Infrared Detector
4. STACK MONITORING CARRIED OUT DURING DRY DAY.

Sampling Done By:
(Chemist)

Tested By:
(Chemist) (Sr. Chemist)

Authorized By:
(Sr. Chemist)

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TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/12-12/A-R1001	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/001	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/ID/A-12/12/001	Field Data Sheet No.	UERL/AIR/FDS/A-12/12/001
Name & Add. of Customer	M/s. Ramco Industries Ltd. Survey No. 78/12, 78/15, Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat – 370 110.		
Dates of Sampling	21/12/2012	Date of Testing	22/12/2012
Location of Sampling / Monitoring	Near Transformer Yard		

- **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Calil. Date	Next Calil. Date
UERL/AIR/RDS/01	Respirable Dust Sampler	1254-DTG-2008 3490-DTG-2008	01/09/2012	31/08/2013
UERL/AIR/FPS/07	Fine Particulate Sampler	271-DTE-2010	01/09/2012	31/08/2013

- **General Sampling / Monitoring Observations as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1.	Monitoring Duration	h	8
2.	Flow Rate of PM_{10}	m^3/min	1.32
3.	Volume of Air Sampled for PM_{10}	m^3	634
4.	Volume of Air Sampled for $PM_{2.5}$	m^3	7.1105
5.	Flow Rate for Gas	L/min	1.5
6.	Volume of Air Sample for Gas	L	720

- **Environmental Condition during testing:** Temp : 25 ± 5 °C Relative Humidity: 40 to 50%

- **Test Parameter Results**

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method	Method of Measurement
1.	Particulate Matter (PM_{10})	$\mu g/M^3$	65	100	CPCB	Gravimetric
2.	Particulate Matter ($PM_{2.5}$)	$\mu g/M^3$	[illegible]	60	CPCB	Gravimetric
3.	Sulphur Dioxide	$\mu g/M^3$	21	80	CPCB	West and Gaeke
4.	Nitrogen Dioxide	$\mu g/M^3$	28	80	CPCB	Modified Jacob & Hochheiser
5.	Carbon Monoxide	mg/M	[illegible]	2.0	CPCB	By using Gas Analyzer
6.	Lead	$\mu g/M^3$	BDL	1.0	CPCB	AAS Method

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
2. The test report shall not be reproduced except in full without approval of "UniStar Environment & Research Labs Pvt. Ltd., Vapi
3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-dispersive Infrared Detector, BDL: Below Detection Limit, NAAQMS: National Ambient Air Quality Monitoring Standard
4. AMBIENT AIR MONITORING CARRIED OUT DURING DRY DAY.

Sampling Done By: (Chemist) (C.A.R.A)

Tested By: (Chemist) (Sr. Chemist) (M.B.T.)

Authorized By: (Sr. Chemist) (J.S.T)

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TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/12-12-A-R1002	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12-002	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/ID/A-12-12/002	Field Data Sheet No.	UERL/AIR/FDS/A-12/12/002
Name & Add. of Customer	M/s. Ramco Industries Ltd. Survey No. 78/12, 78/15, Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat – 370 110.		
Dates of Sampling	21/12/2012	Date of Testing	22/12/2012
Location of Sampling / Monitoring	**Near Security Main Gate**		

➢ **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Cali. Date	Next Cali. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	1260-DTG-2008 3491-DTG-2008	01/09/2012	31/08/2013
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTE-2010	01/09/2012	31/08/2013

➢ **General Sampling** Monitoring Observation as per CPCB Guideline

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	8
2	Flow Rate of PM_{10}	m^3/mun	1.31
3	Volume of Air Sampled for PM_{10}	m^3	629
4	Volume of Air Sampled for PM	m^3	7.1475
5	Flow Rate for Gas	L/mun	1.5
6	Volume of Air Sample for Gas	L	720

➢ **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

➢ **Test Parameter Results**

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method	Method of Measurement
1	Particulate Matter, (PM_{10})	µg/M³	93	100	CPCB	Gravimetric
2	Particulate Matter, ($PM_{2.5}$)	µg/M³	51	60	CPCB	Gravimetric
3	Sulphur Dioxide	µg/M³	22	80	CPCB	West and Gaeke
4	Nitrogen Dioxide	µg/M³	29	80	CPCB	Modified Jacob & Hochheiser
5	Carbon Monoxide	mg/M³	BDL	2.0	CPCB	By using Gas Analyzer
6	Lead	µg/M³	BDL	1.0	CPCB	AAS Method

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
2. The test report shall not be reproduced except in full without approval of "UniStar Environment & Research Labs Pvt. Ltd., Vapi
3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non dispersive Infrared Detector, BDL: Below Detection Limit, NAAQMS: National Ambient Air Quality Monitoring Standard,
4. AMBIENT AIR MONITORING CARRIED OUT DURING DRY DAY.

Sampling Done By:
(Chemist)

Tested By:
(Chemist) / (Sr. Chemist)

Authorized By:
(Sr. Chemist)

UERL/AIR/F-05/01

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TEST REPORT

(AMBIENT AIR MONITORING)

Test Report No.	UERL/12/12/A-R1003	Report Issue Date	31/12/2012
Service Request form No.	UERL/AIR/SRF/12/003	Service Request Date	21/12/2012
Sample ID No.	UERL/AIR/DSA-12/12/003	Field Data Sheet No.	UERL/AIR/FDS/A-12/12/003
Name & Add. of Customer	M/s. Ranoo Industries Ltd, Survey No. 78/12, 78/15, Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat - 370 110		
Dates of Sampling	21/12/2012	Date of Testing	22/12/2012
Location of Sampling / Monitoring	**Near Weigh Bridge**		

- **Details of Master Instrument Used for Monitoring**

Instrument Id No.	Instrument Name	Serial Number	Calb. Date	Next Calb. Date
UERL/AIR/RDS/02	Respirable Dust Sampler	1260-DTG-2008 3491-DTG-2008	01/09/2012	31/08/2013
UERL/AIR/FPS/06	Fine Particulate Sampler	270-DTF-2010	01/09/2012	31/08/2013

- **General Sampling Monitoring Observation as per CPCB Guideline**

Sr. No.	Description	Unit of measurement	Observation
1	Monitoring Duration	h	8
2	Flow Rate of PM_{10}	m^3/min	1.3
3	Volume of Air Sampled for PM	m^3	624
4	Volume of Air Sampled for PM	m^3	7.1629
5	Flow Rate for Gas	L/min	1.5
6	Volume of Air Sample for Gas	L	720

- **Environmental Conditions during testing :** Temp.: 25 ± 5 °C, Relative Humidity: 40 to 50%

- **Test Parameter Results**

Sr. No.	Test Parameter	Unit	Result	Specific Value (As per NAAQMS)	Test Method	Method of Measurement
1	Particulate Matter, (PM_{10})	µg/M³	84	100	CPCB	Gravimetric
2	Particulate Matter, ($PM_{2.5}$)	µg/M³	12	60	CPCB	Gravimetric
3	Sulphur Dioxide	µg/M³	21	80	CPCB	West and Gaeke
4	Nitrogen Dioxide	µg/M³	17	80	CPCB	Modified Jacob & Hochheiser
5	Carbon Monoxide	mg/M³	BDL	2.0	CPCB	By using Gas Analyzer
6	Lead	µg/M³	BDL	1.0	CPCB	AAS Method

NOTE:

1. The results listed refer only to the tested sample and applicable parameter at the time of testing.
2. The test report shall not be reproduced except in full without approval of UniStar Environment & Research Labs Pvt. Ltd., Vapi
3. IS: Indian Standard, CPCB: Central Pollution Control Board, N.D.: Not Detected, AAS: Atomic Absorption Spectrophotometer, NDIR: Non-dispersive Infrared Detector, BDL: Below Detection Limit, NAAQMS: National Ambient Air Quality Monitoring Standard.
4. AMBIENT AIR MONITORING CARRIED OUT DURING DRY DAY.

Sampling Done By:
(Chemist)
(A.R.P)

Tested By:
(Chemist) / (Sr. Chemist)
(N.B.T)

Authorized By:
(Sr. Chemist)
(P.S.T)

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NOISE LEVEL MONITORING REPORT

Name & Add. Of Industries	M/s. Ramco Industries Ltd. Survey No. 78 12,78 15, Village: Sinugra, Taluka: Anjar, District: Kutch, Gujarat 370 110.		
Inst. Name	SLM - 100	Serial Number	24-DTE-2008
Cali. Date:	**07/06/2012**	**Next Cali. Due On:**	**06/06/2013**

Date of Monitoring : 21-12-2012

Location of Monitoring : Inside Production area

Result

Sr. No.	SPOT	Noise Level dB(A)	Permissible Limits TWA – (8 hrs.)
1.	Near Drum Site area	86.7	90 dB (A)
2.	Near BOD (Bag Operating Device) area	88.1	90 dB (A)
3.	Near Corrugation area	87.9	90 dB (A)
4.	Near Striping area	84.5	90 dB (A)
5.	Near Hot Air Generator area	82.4	90 dB (A)

Note:
TWA: Time Weighted Average

Checked By :

Authorized By

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Near G.I.D.C. Office, Char Rasta,
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Phone 91 260 2433966 / 91 260 2425610
E-mail: response@uerlin Website www.uerlin

NOISE LEVEL MONITORING REPORT

Name & Add. Of Industries	M/s. Ramco Industries Ltd. Survey No. 78/12, 78/15, Village: Sinugra, Taluka: Anjar. District: Kutch, Gujarat 370 110.		
Inst. Name:	SLM - 100	Serial Number:	24-DTE-2008
Cali. Date:	07/06/2012	Next Cali. Due On:	06/06/2013

Date of Monitoring : 21-12-2012

Result

Sr. No.	Location	Direction	Noise Level dB(A)	Permissible Limit CPCB
1.	Within Company Premises	East	61.7	<75 dB(A)
		West	55.8	<75 dB(A)
		South	62.3	<75 dB(A)
		North	59.7	<75 dB(A)

Note:

Checked By

Authorized By

ANNEXURE - III

GWIL

Gujarat Water Infrastructure Limited

(A Govt. of Gujarat Undertaking)

Dr. Jivraj Mehta Bhavan, Block No. 1, First Floor, Sector-10, Gandhinagar - 382 010.
Phone : (079) 23239537 + Mobile : 9978441147/48 + Fax. : (079) 23222396
e-mail : gwilcompany@rediffmail.com

No GWIL/Kutch/Ind.Conn./1052/2011 Date : 28.04.11

To,
Senior Manager (C)
GWIL,
Anjar

Sub:- Renewal of water sales Agreement to your unit.

Ramco Industries Limited has executed the agreement for sanction Qty. of 0.060 MLD on 15th April - 2011 for water requirement as **minimum 0.030 MLD** and **Maximum 0.078 MLD**. The copy of agreement executed by them is enclosed herewith for releasing water connection, for your information and further necessary action in the matter. Minimum chargeable quantity is **0.030 MLD.**

(V.G.Papaiyawala)
GWIL,Gandhinagar

Encl.: Copy of Agreement

Copy f.w.c.s. to: Ramco Industries Limited, Survey no.78/12,78/15, Anjar – Mundra National Highway, Village: Singura, Taluka: Anjar, Dist. Kutch (Copy of Agreement)

Copy to: Company Secretary, GWIL, and Gandhinagar. For information. (Encl.: Original Agreement)

Copy to: Manager (F) for information. (Encl.: Copy of Agreement)