

Ramco Industries Limited



Dewanmaro Ayma
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P.S.-Kharagpur (L)
Dt. Paschim Medinipur
West Bengal, Pin-721304
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RIL CIN NO.
L26943TN1965PL C005297

Date: 17/05/2022

To,
The IGF & In charge,
GOI, MOEF & CC,
Integrated Regional Office,
1B-198, Salt Lake City, Sector III,
Kolkata- 700106

Sub: Six Month Compliance Report

Dear Sir,

We are submitting our six-month compliance report from October'2021 to March'2022 duly complied with.

Kindly acknowledge the same.

Thanking you,

Yours faithfully,

For Ramco Industries Ltd.

Partha Pratim Das
(Dy. General Manager-W)



Encl:

- 1) Compliance Report
- 2) Fibre Concentration report
- 3) Ambient Air & Fugitive emission monitoring report
- 4) Stack Analysis Reports

Note: For Publishing in website

For any suggestion/clarification/information sought by any public, should be contact Mr. Partha Pratim Das, DGM at mobile No-08945525257 during office hours on any working day.

Cc: Environmental Engineer, WBPCB, Haldia Regional Office, Haldia, Purba Medinipur.

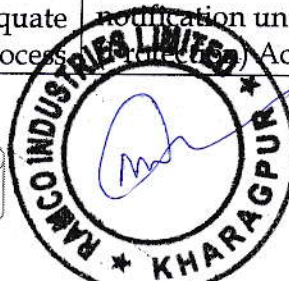
Compliance Status of Ministry of Environment and Forests & Climate Change

Name of the Project: Ramco Industries Ltd.

Clearance Letter No & date: J-11011/22/2011-IA II (I), Dated 10th May, 2013

Period of Compliance Report: From October'2021 to March'2022

CONDITIONS	COMPLIANCE STATUS
A. Specific conditions:	
i. The project proponent shall adhere to the prescribed BIS standards and laws regarding use of asbestos, safety of employees etc. Raw Materials like asbestos fibre and cement should be transported in closed containers. Asbestos fibre should be brought in palletized form, in impermeable bags and under compressed condition	We strictly adhere to the prescribed BIS standards and law regarding use and handling of asbestos safety of employee etc. Raw materials like asbestos fiber and cement are always transported in closed containers. Asbestos fiber always brought in palletized form in impermeable bags and under compress condition.
ii. Only Chrysotile white asbestos fibre shall be used. Blue asbestos should not be utilized as a raw material in the manufacturing process.	We use only WHITE CHRYSOTILE Fibre as raw material in the manufacturing process and we do not use blue asbestos.
iii. There should be no manual handling/opening of asbestos fibre bags. The company should install fully automatic asbestos fibre debagging system	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.
iv. Fugitive emission shall be controlled by bringing cement in closed tankers, flyash in covered trucks and asbestos in impervious bags inside a closed mixer. Dust collectors shall be provided to fibre mill, Bag opening device (BOD), cement and flyash silos to control emissions. Bag filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder, fibre mill and to cement silo to collect the dust and recycle it into the process. Fugitive emissions generated from hopper of Jaw crusher and pulverizer shall be channelized through hood with proper suction arrangement, bag filter and stack.	For controlling fugitive emission, Material received in bulk tankers are conveyed pneumatically to the respective silos and there are no fugitive emissions. Bag filters followed by wet washer are provided at automatic bag opening machine bag shredder and fiber mill, Cement, Fly ash silos and rejected sheets pulverizer to collect the dust and recycle into the process. Asbestos fibre count is being monitored at pulverizer area found within the permissible limit.
v. The company shall comply with total dust emission limit of 2mg/Nm ³ as notified under the Environment (protection) Act, 1986. Adequate measure should be adopted to control the process	We are complying with total dust emission limit of 2mg/Nm ³ as notified under the Environment (protection) Act, 1986. Adequate



emission and ensure that the stack emission of asbestos fibre should not exceed the emission limit 0.2f/cc. asbestos fibre in work zone environment shall be maintained within 0.1 fibre/cc.	measures have been adopted to control the process emission. We ensure that the stack emission of asbestos fiber will not exceed the emission limit of 0.2 fiber/cc. Asbestos fiber in work zone environment is maintained within 0.1fiber/cc. (Annexure-1). Reports are enclosed herewith.
vi. Bag containing asbestos fibre shall be stored in enclosed area to avoid fugitive emissions of asbestos fibre from damaged bags, if any.	Bags containing asbestos fiber are stored in enclosed place to avoid fugitive emissions of asbestos fiber from damaged bags.
vii. Proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation shall be laid in accordance with Factories Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These includes: - All monitoring transfer points shall be connected to dust extraction system. - Leakage or dust from machines and ducts shall be plugged. - Floor shall be cleaned by vacuum cleaner only. - Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises.	Proper housekeeping maintained within the plant premises, process and machinery. Exhaust ventilation system is installed in accordance with factories Act. For better housekeeping, following practices are adopted for improvement of the environment within the work environment. - Wet mopping being done in shop floor. - Vacuum cleaning done at BOD & ER mill are. - Wet waste is collected in clarifier and recycled in the process. - Process water is collected in two Cone tank and recycled in the process. - Broken sheets are collected and pulverized & reused in the process. - We are cleaning the shop floor with the help of Vacuum Cleaner (Capacity-1800 LPM). - Asbestos fibre is being transported from fibre godown through Forklift & through roller conveyor fibre bag are fed into the BOD.

viii.	Quarterly monitoring of pollutant (PM ₁₀ , asbestos fibre count) in the work zone area and stack(s) shall be undertaken by the project proponents. In addition, asbestos fibre count including the fugitive dust in the work zone area shall be monitored by an independent monitoring agency like NIOH/ITRC/NCB or any other approved agency on six monthly basis and reports shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.	Quarterly monitoring of asbestos fibre count in work zone (including Fugitive dust) is being monitored by external agency, M/s CVR Lab, Chennai. Results are in Annexure-1. Also fibre dust & fibre count are being monitored in our fibre stack by SPCB approved labs & by CVR Lab. Reports are attached herewith. The reports are being submitted to State Pollution Control Board & Ministry once in 6 months.									
ix.	As reflected in the Environmental Management Plan, all the treated effluent shall be recycle and reused in the manufacturing process. No process water shall be discharged outside the premises and 'zero' discharge shall be maintained. All the domestic waste water shall be treated in septic tank followed by soak pit and used for green belt development.	The entire process water is recycled and reused in the manufacturing process. There is no process water discharged outside the premises and we are maintaining ZERO discharge. The domestic waste water is treated in septic tank followed by soak pit and used for green belt development.									
x.	The Company shall ensure that the entire solid waste generated including process rejects, cement, flyash, dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. There will be no solid waste disposal outside the plant premises. Asbestos fibres which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.	We ensure that the entire solid waste generated including process rejects, dust from bag filters and empty asbestos bags are recycled the manufacturing process. <table><tr><td>Waste type</td><td>Qty.</td><td>Remarks</td></tr><tr><td>Broken AC Sheets</td><td>41.80M T/month</td><td>Reused in the process</td></tr><tr><td>Dust From dust collectors</td><td>0.70 MT/month</td><td>Reused in the process</td></tr></table>	Waste type	Qty.	Remarks	Broken AC Sheets	41.80M T/month	Reused in the process	Dust From dust collectors	0.70 MT/month	Reused in the process
Waste type	Qty.	Remarks									
Broken AC Sheets	41.80M T/month	Reused in the process									
Dust From dust collectors	0.70 MT/month	Reused in the process									
xi.	The cut and damaged fibre bags shall be repaired immediately. Empty fibre bags will be shredded into fine particles in a bag shredder and recycled into the process. Piling of AC sheets shall be done in wet condition only.	The cut and damaged fibre bags if any found are being repaired immediately by fixing the adhesive tape. Empty fiber bags are shredded into fine particles in a bag shredder and recycled into the process.									
xii.	The Company shall obtain a certificate from the supplier of Chrysotile fibre that it does not any toxic or trace metals. A copy of certificate shall be	There is no toxic or trace elements found in the fibre supply.									



	submitted to the Ministry of Environment and Forest.	
xiii.	Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestosis are detected, necessary compensation shall be arranged under the existing laws. A competent occupational health physician shall be appointed to carry out medical surveillance. Occupational health of all the workers shall be monitored for lung function test, chest X- ray, sputum for acid-fast-bacilli (AFC) and asbestos body (AB), urine for sugar and albumen, blood tests for TLC, DLC, ESR, Hb and records maintained for at least 40 years from the beginning of the employment or 15 years after the retirement or cessation of employment whichever is later. Occupational Health Surveillance shall be carried out as per directives of the Hon'ble Supreme Court including the including the recent Kalyaneswari case.	Regular medical examination of the workers and health monitoring of all the employees are carried out. We will maintain record upto minimum 15 years after retirement or cessation of employment whichever is lower. A competent occupational health physician will be appointed to carry out surveillance. The occupational health monitoring is being done as stipulated. We have provided medical and health care facilities at the work place and carry out health surveillance as per the directives of the supreme court.
xiv.	To educate the workers, all the work places where asbestos dust may cause a hazard shall be clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.	We educate the workers, all the work places where asbestos dust may cause a hazard is clearly indicated as a dust exposure area through the use of display signs which identifies the hazard and the associated health effects.
xv.	The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry's Regional Office at Bhubaneswar within three months.	We have a rain water harvesting pond to store the rain water and reuse.
xvi.	All the commitments made to the public during Public Hearing/Public Consultation meeting held on 5 th October, 2012 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated & information submitted to the Ministry's Regional Office at Bhubaneswar.	Recommendations made during public hearing are being done from time to time.
xvii.	Green belt shall be developed in at least 33% of plant area as per the CPCB guidelines in consultant with the DFO. More focus shall be given towards the South East side of the plant layout.	An effective green belt is being developed with local species in consultation with DFO as per CPCB guidelines, Efforts are further made to develop green belt in south eastern side.
xviii.	At least 5% of the total cost of the project should be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan should be prepared & submitted to Ministry's Regional Office at Bhubaneswar.	We are regularly doing CSR activity. Recently we have donated Oxygen Mask for Rs.1,00,000/- to nearby COVID'19 government hospital and isolation centres through District Magistrate. We have donated food items



	Implementation of such program should be ensured accordingly in a time bound manner.	for Rs-2,00,000/- to 500 poor people surrounding the village area.
xix.	The company shall provide housing for construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	We have provided all necessary infrastructure and facilities to our labour working in the site.
B. General Conditions:		
i.	The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board & the State Government.	We strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.
ii.	No further expansion/modification in the plant should be carried out without prior approval of the Ministry Of Environment and Forest.	No further expansion/ modifications in the plant will be carried out without prior approval of the Ministry of Environment and Forests.
iii.	At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentrations of PM10, SO2 & NOx are anticipated in consultation with the CPCB. Data on ambient air quality & stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar & the SPCB/CPCB in six months.	We are monitoring ambient air quality in four locations of the plant by external agency. We are also sending those monitored results to MOEF, Bhubaneswar and State pollution control board. We have attached herewith the Ambient Air Quality Record done by SPCB approved labs..
iv.	Industrial waste water shall be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 th May, 1993 & 31 st December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	All our process water is 100% reused in our manufacturing process.
v.	The overall noise levels in and around the plant area shall be kept well within the standard (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) & 70 dBA (night time).	Noise levels in and around the Plant area are monitored regularly and is well under the limit.
vi.	Occupational health surveillance of the workers shall be done on a regular basis & records maintained as per the Factories Act.	Regular medical examination of the workers and health monitoring of all the employees are carried out by a competent occupational health physician.



	The occupational health monitoring is being done as per factories act.
vii. The company shall develop rain water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water.	Rain water harvesting pond has been developed to augment ground water during rainy season.
viii. The project proponent shall also comply with all the environmental protection measures & safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply & health care etc.	We are complying with safe guards recommended in the EIA/EMP report. Also we are regularly doing C.S.R activities.
ix. Requisite funds shall be earmarked towards capital cost & recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Environmental Expenses details are Recurring Expenses: - October, 2021 to March, 2022- Rs-10,87,957/- 1) Garden Maintenance & Plantation- Rs-19066/- 2) Personal Protective equipment, like Nose mask, hand gloves, Gum boot, etc- Rs-2,83,441/- 3) Environmental Monitoring jobs Rs-7,85,450/-
x. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body & the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also put on the web site of the company by the proponent.	Copy of EC accorded has been sent to local panchayat & Zila parishad. We have uploaded our EC in our company website.
xi. The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MoEF at Bhubaneswar. The respective Zonal office of CPCB & the SPCB. The criteria pollutant levels namely; PM ₁₀ , SO ₂ , NO _x (ambient levels as well as stack emissions) or critical sectorial	We have uploaded the six monthly compliance reports in our company website (www.ramcoindltd.com). We are regularly sending six monthly compliance reports to MOEF regional office every 6 months. We have also made available relevant critical parameters in display board near the main gate.



	parameters, indicated for the projects shall be monitored & displayed at a convenient location near the main gate of the company in the public domain.	
xii.	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB & the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	The monitoring data has already been sent to the office along with the compliance report for the period October'20 to March'21 in the month of April' 2021.
xiii.	The environmental statement for each financial year ending 31 st March in Form-V as is mandated to be submitted by the project proponent to the concerned state Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions & shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.	We are regularly sending the Environmental statement (Form-V, year ending Mar'31 st) to state pollution control board. Also uploaded this in our website (www.ramcoindia.com).
xiv.	The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry & copies of the clearance letter are available with the SPCB & may also be seen at website of the Ministry of Environment & Forests at http://envfor.nic.in . This shall 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 to the Regional Office at Bhubaneswar.	We have informed the public through the local newspaper announcement that the project has been accorded environmental clearance by the ministry and copies of the clearance are available with state pollution control board/committee and may also see at website of the MoEF at http://envfor.nic.in .
xv.	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure & final approval of the project by the concerned authorities & the date of commencing the land development work.	Information with date of financial closure and final approval given are informed to Ministry of Environment and Forest. Date of Financial closure-07.11.2012. Date of Final approval-03.08.2013.



ANNEXURE-1

Results of Fibre concentration at Work zone/Stack

Place	Nov-2021	Feb-2022
Fibre Godown	0.053 f/cc	0.055 f/cc
BOD	0.051 f/cc	0.049 f/cc
Slurry Mixer	0.067 f/cc	0.053 f/cc
Cutter Off	0.041 f/cc	0.039 f/cc
Auto Box	0.033 f/cc	0.041 f/cc
Moulding	0.047 f/cc	0.051 f/cc
Stripping	0.063 f/cc	0.047 f/cc
Pulveriser	0.065 f/cc	0.044 f/cc
Ball Mill	0.041 f/cc	0.057 f/cc
Stack Attached to BOD & Edge runner mill	0.13 f/cc	0.10 f/cc
Stack Attached to Pulveriser	0.19 f/cc	0.13 f/cc





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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmuro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/06/Oct./A/I	Report No.	: ENV/06/Oct./TR(A)/1/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Cement & Fly Ash Feeding Section	Height of Stack (mtr.) (from G. L.)	: 15.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.40
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 8.4
Capacity	: 10 Ton/hr. (Running Load - 06 Ton/hr.)	Emission Due to	: Process Activity (Feeding of Raw Materials)
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 35.3
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.43
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 4523.26
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.02

Remarks :

Reviewed By :

[Signature]
DUMBADAL CHAKRABORTY
Dy. Quality Manager

Approved By :

[Signature]
Indrani Bhallecharya
Dy. In-charge



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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/06/Oct./A/II	Report No.	: ENV/06/Oct./TR(A)/II/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

StackAttached to	:	Edge Runner Mill BOD (Bag Open Device & Slurry Mixing)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	15.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.30
Capacity	:	03 Ton/hr. (Running - 03 Ton/hr.)	Height of sampling port (mtr.) (from G.L.)	:	8.4
Emission Due to	:	Process Activity			
Fuel Used	:	N.A.	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Nil			
Pollution Control Device	:	Bag Filter and Wet Scrubber			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	: 33.1
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	: 12.23
4.	Quantity of Gas flow	Nm ³ /hr.	IS: 11255 (Part III)	: 2965.42
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol. 3 11.07): 2011	: 1.87

Remarks :

Reviewed By :

DEB JAGAL CHAKRABORTY

Asst. Quality Manager

Approved By :

Indrani Bhattacharyya



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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmuro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/06/Oct./A/III	Report No.	: ENV/06/Oct./TR(A)/III/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Pulverized Section (No.1)
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 2.0 MT/hr.
Emission Due to	: Process Activity (Pulverizing of Waste Scrap Materials)
Fuel Used	: N.A.
Working Fuel Consumption	: Nil
Pollution Control Device	: Bag Filter
Height of Stack (mtr.) (from G. L.)	: 15.0
Stack I.D. at sampling point (mtr.)	: 0.254
Height of sampling port (mtr.) (from G.L.)	: --
Permanent Platform & Ladder	: Yes

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part I)	: 38.0
2.	Barometric Pressure	mm of Hg.	--	: 755.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.57
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 2870.38
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.93

Remarks :

Reviewed By:


By: Quality Manager

Approved By:





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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021 - 05.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/06/Oct./A/IV	Report No.	: ENV/06/Oct./TR(A)/IV/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	50.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	89.51
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.25
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	26.52
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.38
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By:

Dy. Quality Manager

Approved By:



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021 - 05.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/06/Oct./A/V	Report No.	: ENV/06/Oct./TR(A)/V/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Stock Yard
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	48.35
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	91.46
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.50
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	32.48
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.26
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12): 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, Issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By:

PURBOMATI LABORATORY

Dy. Quality Manager

Approved By:

Sudhrami Bhattacharyya



ENVIROCHECK

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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO : ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021 - 05.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/06/Oct./A/VI	Report No.	: ENV/06/Oct./TR(A)/VI/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Scrap Yard
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	54.18
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	93.77
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.04
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	29.50
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.28
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Dy. Quality Manager

Approved By :

INDRANI



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmari Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021 - 05.10.2021
		Period of Analysis	: 09.10.2021 - 09.10.2021
		Date of Issue	: 11.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/06/Oct./A/VII	Report No.	: ENV/06/Oct./TR(A)/VII/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Back Side of the Plant
2. Duration of Sampling : 24 hrs. (10:30 a.m. - 10:30 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 29.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 755.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	51.22
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	86.21
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.22
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	28.43
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.23
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

DUREAN LABORATORY

By: Quality Manager

Approved By :

INDRANI BHATTACHARYA
DUREAN LABORATORY



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 06.10.2021 - 19.10.2021
		Date of Issue	: 21.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Quality Control Lab	ULR No.	: TC601421000000189F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT (IS 10500 : 2012)	
				Acceptable	Permissible
1. Colour	IS 3025 (Part 4): 1983, RA 2012	--	1.0	5.0	15.0
2. Odour	IS 3025 (Part 5): 1983, RA 2012	--	Odourless	Agreeable	Agreeable
3. pH	IS 3025 (Part 11): 1984, RA 2012	--	6.71	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 7 and 8): 1983, RA 2012	--	Acceptable	Agreeable	Agreeable
5. Turbidity	IS 3025 (Part 10): 1984, RA 2012	NTU	<1.0	1.0	5.0
6. Total Dissolved Solids	IS 3025 (Part 16): 1984, RA 2014	mg./l	88.0	500.0	2000.0
7. Aluminium	IS 15302: 2003, RA 2014	mg./l	<0.02	0.03	0.2
8. Calcium	IS 3025 (Part 40): 1991, RA 2014	mg./l	12.8	75.0	200.0
9. Chloride	IS 3025 (Part 32): 1988, RA 2014	mg./l	7.99	250.0	1000.0
10. Iron	IS 3025 (Part 53): 2003, RA 2014	mg./l	0.08	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg./l	3.36	30.0	100.0
12. Manganese	IS 3025 (Part 59): 2006, RA 2012	mg./l	<0.05	0.1	0.3
13. Nitrate	IS 3025 (Part 34): 1988, RA 2014	mg./l	1.80	45.0	No Relaxation
14. Sulphate	IS 3025 (Part 24): 1986, RA 2014	mg./l	7.80	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg./l	54.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg./l	46.0	200.0	600.0
17. Zinc	IS 3025 (Part 49): 1994, RA 2014	mg./l	0.12	5.0	15.0
18. Mercury	IS 3025 (Part 48): 1994, RA 2009	mg./l	<0.001	0.001	No Relaxation
19. Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg./l	<0.01	0.01	No Relaxation*
20. Chromium	IS 3025 (Part 52): 2003, RA 2014	mg./l	<0.02	N.A.	N.A.
21. Silica	APHA 23rd Ed., 4500 SiO ₂ -C/F : 2017	mg./l	1.20	N.A.	N.A.

Remarks : a) Result shows that all parameters are within limit as per IS : 10500 - 2012.

b) N.A. means Not Available.

c) The (*) marked limit are as per IS:10500-2012 - Drinking Water Specification, Amendment No.1, June'2015.

Reviewed By:

[Signature]
Dy. Quality Manager

Approved By:

[Signature]
Dy. Quality Manager



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 06.10.2021 - 08.10.2021
		Date of Issue	: 21.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Quality Control Lab	ULR No.	: TC601421000000189F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT as per IS 10500, 2012
1. Total Coliform	9222B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample

Remarks : a) Result shows that all parameters are within limit as per IS 10500 : 2012. (<1.0 indicates that no Colony developed in 1 ml. sample, i.e. No Coliform Found).
b) CFU indicates Colony Forming Unit.

Reviewed By :

Dy. Quality Manager

Approved By :

PRIYANKA MUKHERJEE
Technical Manager, Microbiology



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 06.10.2021 - 19.10.2021
		Date of Issue	: 21.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Guest House	ULR No.	: TC601421000000190F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT (IS 10500: 2012)	
				Acceptable	Permissible
1. Colour	IS 3025 (Part 4): 1983, RA 2012	--	1.0	5.0	15.0
2. Odour	IS 3025 (Part 5): 1983, RA 2012	--	Odourless	Agreeable	Agreeable
3. pH	IS 3025 (Part 11): 1984, RA 2012	--	6.73	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 7 and 8): 1983, RA 2012	--	Acceptable	Agreeable	Agreeable
5. Turbidity	IS 3025 (Part 10): 1984, RA 2012	NTU	<1.0	1.0	5.0
6. Total Dissolved Solids	IS 3025 (Part 16): 1984, RA 2014	mg./l	92.0	500.0	2000.0
7. Aluminium	IS 15302: 2003, RA 2014	mg./l	<0.02	0.03	0.2
8. Calcium	IS 3025 (Part 40): 1991, RA 2014	mg./l	12.8	75.0	200.0
9. Chloride	IS 3025 (Part 32): 1988, RA 2014	mg./l	6.99	250.0	1000.0
10. Iron	IS 3025 (Part 53): 2003, RA 2014	mg./l	0.06	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg./l	3.84	30.0	100.0
12. Manganese	IS 3025 (Part 59): 2006, RA 2012	mg./l	<0.05	0.1	0.3
13. Nitrate	IS 3025 (Part 34): 1988, RA 2014	mg./l	1.20	45.0	No Relaxation
14. Sulphate	IS 3025 (Part 24): 1986, RA 2014	mg./l	8.20	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg./l	54.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg./l	48.0	200.0	600.0
17. Zinc	IS 3025 (Part 49): 1994, RA 2014	mg./l	0.14	5.0	15.0
18. Mercury	IS 3025 (Part 48): 1994, RA 2009	mg./l	<0.001	0.001	No Relaxation
19. Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg./l	<0.01	0.01	No Relaxation*
20. Chromium	IS 3025 (Part 52): 2003, RA 2014	mg./l	<0.02	N.A.	N.A.
21. Silica	APHA 23 rd Ed., 4500 SiO ₂ -C/F: 2017	mg./l	1.50	N.A.	N.A.

Remarks: a) Result shows that all parameters are within limit as per IS: 10500 - 2012.

b) N.A. means Not Available.

c) The (*) marked limit are as per IS:10500-2012 - Drinking Water Specification, Amendment No.1, June'2015.

Reviewed By:

[Signature]
Dy. Quality Manager

Approved By:

[Signature]
Dy. Quality Manager



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 04.10.2021
		Period of Analysis	: 06.10.2021 - 08.10.2021
		Date of Issue	: 21.10.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Guest House	ULR No.	: TC601421000000190F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT as per IS 10500:2012
1. Total Coliform	9222B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample

Remarks: a) Result shows that all parameters are within limit as per IS 10500:2012. (<1.0 indicates that no Colony developed in 1 ml. sample, i.e. No Coliform Found).

b) CFU indicates Colony Forming Unit.

Reviewed By:

By, Quality Manager

Approved By:

PRIYANKA MUKHERJEE
Technical Manager, Microbiology



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ISO 9001:2015
FORMAT NO.: ENV/PM/56

TEST REPORT

1.	Name of the Industry	:	Ramco Industries Limited
2.	Address	:	Village-Dewanmoro Ayma, P.O. - Hariatara, P.S. - Kharagpur. District - Paschim Medinipur, Pin- 721301.
3.	Type of Industry	:	Asbestos Cement Corrugated & Accessories Manufacturing Unit
4.	Sampling Plan & Procedure	:	ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	:	No
6.	Type of Sample	:	Noise
7.	Sample ID	:	ENV/02/Oct./N
8.	Report ID	:	ENV/02/Oct./TR(N)/21-22
9.	Date of Study	:	04/10/2021
10.	Reporting Date	:	11/10/2021
11.	Method No.	:	IS: 9989 - 1981
12.	Duration of Noise	:	20 Minutes
13.	Height from Ground Level	:	4 feet
14.	Sample Monitoring By	:	Mr. Pappu Hazra

RESULT OF NOISE LEVEL STUDY

DAY TIME

1. Location of Study		: Near Main Gate		
Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	
11:00 - 11:20	49.8	53.4	51.96	

NIGHT TIME

2.	Location of Study		Near Main Gate	
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:00 - 10:20	43.2	49.1	47.08

DAY TIME

3.	Location of Study		:	Near Stock Yard	
	Time (A.M)	Minimum dB(A)		Maximum dB(A)	Leq dB(A)
	11:30 - 11:50	59.9		63.4	61.99

NIGHT TIME

4. Location of Study		Near Stock Yard	
Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
10:30 - 10:50	52.7	57.3	55.58

DAY TIME

5.	Location of Study		: Near Scrap Yard	
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	12:00 - 12:20	64.3	67.9	66.46

NIGHT TIME

6.	Location of Study		:	Near Scrap Yard	
	Time (P.M)	Minimum dB(A)		Maximum dB(A)	Leq dB(A)
	11:00 - 11:20	49.2		53.0	51.50

DAY TIME

7.	Location of Study		:	Back Side of the Plant	
	Time (P.M)	Minimum dB(A)		Maximum dB(A)	Leq dB(A)
	12:30 - 12:50	65.7		68.3	67.19

NIGHT TIME

8. Location of Study		: Back Side of the Plant		
Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)	
11:30 - 11:50	53.2	57.1	55.57	



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** Mean of Leq - Equivalent to Sound Energy Limit in Leq dB(A)		
Category Area	Day Time dB(A)	Night Time dB(A)
A. Industrial Area	75	70
B. Commercial Area	65	55
C. Residential Area	55	45
D. Silence Zone	50	40
**Day Time is reckoned in between 6:00 A.M & 10:00 P.M		**Night Time is reckoned in between 10:00 P.M & 6:00 A.M
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)		
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)		
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS		
Hours	Limit in dB(A)	
8	90	
4	93	
2	96	
1	99	
1/2	102	
1/4	105	
1/8	108	
1/16	111	
1/32	114	
(2 minutes or less)	-	

Reviewed By:

DIRBY  LABORTY
Dy. Quality Manager

Approved By:


INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

>End of Report<

Note : 1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as N.A.
 3. Test results shown in this test report relate only to the sample (s) only.
 4. The test results referred in test report are based on observations & measurements under the suited environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory.
 6. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-342 from the date of issue unless otherwise specified.
 7. All general information's of stack are provided by the party.

Test Witnessed By: Nil
 Estimated Uncertainty: Not Required

Prepared By: R. Mondal

Checked By: A. Para

Signature of Analyst
 (Sr. Chemist)

Debasish Halder

For: INDICATIVE CONSULTANT INDIA

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	1.5
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/Nm ³)	-
04.	NOx (mg/m ³)	-
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	<0.2

C.1 RESULT OF SAMPLING:

Flue Gas Temperature (°C)	32
Barometric Pressure (mm Hg)	757
Velocity of Gas flow (m/s)	8.53
Quantity of Gas flow (Nm ³ /hr)	3760.39
Pressure	-
Steam Generation Capacity :	
a) Rated	-
b) Running	-
Load :	
a) Rated	-
b) Running	-
10 Ton/Hr.	-

B.1 PHYSICAL DATA:

Stack attached to	Cement & Fly ash feeding
Emission due to	Feeding of Raw Material
Fuel Used	-
Rated Fuel Consumption	-
Working Fuel Consumption	-
Calorific Value (Kcal/kg)	-
Sulphur Content (% by Wt)	-
Ash Content (% by Wt)	-
Pollution Control Device	Bag Filter
Whether Stack is provided with permanent Platform / Ladder : Yes	-
Particulars of the Plant	
Shape of Stack	Circular
Material of Construction	M.S.
Stack ID at sampling point (M)	0.40
At Bottom (M)	-
At Top (M)	0.40
Height Details :	
a) Total Ht. Of stack from GL(M)	15.0
b) Total Ht. Of stack from RL(M)	-
c) Ht. of sampling port from GL(M)	8.4
d) Ht. of port from disturbance zone (M)	-

A.1 GENERAL INFORMATION ABOUT STACK:

Date: 08.11.2021	Report No: ICI/HL/A/PTC-578/2021	Format No: ICI/FM/H/58
Customer Name	M/s. Ramco Industries Ltd.	Sample ID No
Address	Devarnagar, Ayma, P.O.-Haridwar, P.S.-Kharanjan, Paschim Medinipur.	Sampling Date
Customer Representative Name	Mr. Tarakanth Bose	Sampling Time
& Contact Number	Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date
Sample Description	Stack Air	
Location	Cement & Fly Ash Feeding Section	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method	

TEST REPORT



(GOVT. REGISTERED TEST HOUSE)



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9001:2015

18001:2007

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Certificate No.: TC-6159

TEST REPORT

Date: 08.11.2021	Report No: ICI/HL/A/PTC-579/2021	Format No: ICI/FM/H/58
Customer Name	M/s. Ramco Industries Ltd.	Sample ID No : 2021/PA-579
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 01.11.2021
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time : 11:10 AM
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis Start Date : 03.11.2021
Sample Description	Stack Air	Analysis complete Date : 04.11.2021
Location	Edge Runner Mill BOD & Slurry Mixing	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	Shape of Stack	Circular
Stack attached to	Material of Construction	M.S.
Edge runner Mill BOD & Slurry Mixing	Stack ID at sampling point (M)	0.30
Emission due to	At Bottom (M)	-
Fuel Used	At Top (M)	0.30
Rated Fuel Consumption	Height Details :	
Working Fuel Consumption	a) Total Ht. Of stack from GL(M)	15.0
Calorific Value(Kcal/kg)	b) Total Ht. Of stack from RL(M)	-
Sulphur Content (% by Wt)	c) Ht. of sampling port from GL(M)	8.4
Ash Content (% by Wt.)	d) Ht. of port from disturbance zone (M)	-
Pollution Control Device	Bag Filter & Wet Scrubber	
Whether Stack is provided with permanent Platform / Ladder	Yes	

B.] PHYSICAL DATA:

Flue Gas Temperature ($^{\circ}$ C)	: 32	<u>Steam Generation Capacity :</u>	
Barometric Pressure,(mm Hg)	: 757	a) Rated	: -
Velocity of Gas flow (m/s)	: 7.78	b) Running	: -
Quantity of Gas flow (Nm^3/hr)	: 1928.86	<u>Load :</u> a) Rated	: -
Pressure	: -	b) Running	: 1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm^3)	1.2
02.	Particulate Matter Normalised to 12% CO_2 (V/V) - (mg/Nm^3)	-
03.	Sulphur di-oxide (mg/Nm^3)	-
04.	NO_x (mg/m^3)	-
05.	CO % (V/V)	<0.2
06.	CO_2 % (V/V)	<0.2

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Haldia
(Sr. Chemist)
Signatory

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as N A
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory.
 6. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T- 341 from the date of issue unless otherwise specified
 7. All general information's of stack are provided by the party



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Towards Sustainable Growth



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EMAIL: indicativeconsultantindia@gmail.com/indicativeconsultantindia.kol@gmail.com

9001:2015

18001:2007

ISO/IEC 17025:2017
Certificate No.: TC-6159**TEST REPORT**

Date: 08.11.2021	Report No: ICI/HL/A/PTC-580/2021	Format No: ICI/FM/H/58
Customer Name	M/s. Ramco Industries Ltd.	Sample ID No
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis Start Date
Sample Description	Stack Air	Analysis complete Date
Location	D.G. Set (725 KVA)	
Sample Condition	In Glass Microfiber Thimble & Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS 11255 (Part -1):1985 (RA 2019), IS 11255 (Part -3):2008 (RA 2018), IS 11255 (Part -2):1985 (RA 2019), ORSAT Method, EPA Method No. - 7	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	Circular
Stack attached to	D.G. Set (725 KVA)	Material of Construction	M.S.
Emission due to	Combustion of H.S.D.	Stack ID at sampling point (M)	0.20
Fuel Used	H.S.D.	At Bottom (M)	-
Rated Fuel Consumption	145 Lit/Hr.	At Top (M)	0.20
Working Fuel Consumption	145 Lit/Hr.	Height Details:	
Calorific Value(Kcal/kg)	-	a) Total Ht. Of stack from GL(M)	16.0
Sulphur Content (% by Wt)	-	b) Total Ht. Of stack from RL(M)	-
Ash Content (% by Wt.)	-	c) Ht. of sampling port from GL(M)	8.4
Pollution Control Device	Nil	d) Ht. of port from disturbance zone (M)	-
Whether Stack is provided with permanent Platform / Ladder	Yes		

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	163	Steam Generation Capacity:	
Barometric Pressure (mm Hg)	757	a) Rated	-
Velocity of Gas flow (m/s)	14.23	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	1097.21	Load: a) Rated	725 KVA
Pressure	-	b) Running	725 KVA

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	62.0
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	223.65
04.	NOx (mg/m ³)	158.87
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	6.8

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debashis Halder
(Sr. Chemist)
SignatureTest Witnessed By: Nil
Estimated Uncertainty: Not Required**Note:**

- Sample is drawn by M/s. Indicative Consultant India
- Sample submitted and identified by customer as: N/A
- Test results shown in this test report relate only to the sample(s) only
- The test results referred in test report are based on observations & measurements under the stated environmental conditions.
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- Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-340 from the date of issue unless otherwise specified
- All general information's of stack are provided by the party.

Page 1 of 1

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TEST REPORT

Report No: IC/HL/A/PTC-581/2021	Format No: IC/FM/H/58
Customer Name	M/s. Ramco Industries Ltd.
Address	Dewanmuro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.
Customer Representative Name	Mr. Taranath Bose
& Contact Number	Mob. No. 70 63511804
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021
Sample Description	Stack Air
Location	Pulverizer Section
Sample Condition	In Glass Microfiber Thimble
Sampling Method	CPCB, Emission Regulation (Part III)
Test Method	CPCB, Emission Regulation (Part III), IS: 11255 (Part - I), 1985, Reaffirmed 2003, IS: 11255 (Part - 3) 2008, ORSAT Method

A.1 GENERAL INFORMATION ABOUT STACK

Particulars of the Plant	Stack attached to	Process Activity	Material of Construction	M.S.	Circular
	Emission due to		Stack ID at sampling point (M)	0.2541	
	Fuel Used		At Bottom (M)	-	
	Rated Fuel Consumption		At Top (M)	-	
	Working Fuel Consumption			-	
	Calorific Value (Kcal/kg)			-	
	Sulphur Content (% by Wt)			-	
	Ash Content (% by Wt)			-	
Pollution Control Device	Bag Filter				
Whether Stack is provided with permanent Platform / Ladder : Yes					
Height Details :					
a) Total Ht. Of stack from GL(M)	15.0				
b) Total Ht. Of stack from RL(M)	-				
c) Ht. of sampling port from GL(M)	6.70				
d) Ht. of port from disturbance zone (M)	-				

B.1 PHYSICAL DATA:

Flue Gas Temperature (°C)	34	Steam Generation Capacity :	
Barometric Pressure (mm Hg)	757	a) Rated	-
Velocity of Gas flow (m/s)	8.19	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	1447.27	Load :	
Pressure	-	a) Rated	-
		b) Running	-

C.1 RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	1.4
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/Nm ³)	-
04.	NOx (mg/m ³)	-
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	<0.2

Prepared by: K. Mondal

Checked By: A. Patra

 Signatory Authority
 (Sr. Chemist)


For, INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

Sample is drawn by M/s. Indicative Consultant India

The test results shown in this test report relate only to the sample (s) only

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Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-339 from the date of issue unless otherwise specified

All general information's of stack are provided by the party

End of Report

Page 1 of 1



(GOVT. REGISTERED TEST HOUSE)



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9001:2015

18001:2007

ISO/IEC 17025:2017
Certificate No.: TC-6159**TEST REPORT**

Date: 10.11.2021	: Report No: ICI/HL/A/RN-852/2021	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2021/AC-852
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 01.11.2021 to 02.11.2021
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 03.11.2021
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 09.11.2021
Sample Description	: AMBIENT AIR	
Location	: NEAR MAIN GATE	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle. Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	: 28.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:00 AM to 06:00 PM	75.43	24.88	18.22	42.03	BDL	BDL	BDL	32.1	0.2811	BDL	BDL	BDL
06:15 PM to 02:15 AM	92.17	33.73	22.27	45.39	BDL	BDL	BDL	-	0.3047	BDL	BDL	BDL
02:30 AM to 10:30 AM	87.68	28.42	19.23	40.34	BDL	BDL	BDL	-	0.3372	BDL	BDL	BDL

Limit ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀ = 100 $\mu\text{g} / \text{m}^3$, PM_{2.5} = 60 $\mu\text{g} / \text{m}^3$, SO₂ = 80 $\mu\text{g} / \text{m}^3$, NO₂ = 80 $\mu\text{g} / \text{m}^3$, Lead = 1.0 $\mu\text{g} / \text{m}^3$, Ammonia = 400 $\mu\text{g} / \text{m}^3$, 24 hours basis, Carbon mono oxide = 2 mg / m^3 , O₃ = 100 $\mu\text{g} / \text{m}^3$, 8 hours basis, Benzene = 5 $\mu\text{g} / \text{m}^3$, Benzopyrene = 1 ng / m^3 , Arsenic = 6 ng / m^3 , Nickel = 20 ng / m^3 , Annual basis, For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halder
(Sr. Chemist)
Signature

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note:
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
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9001:2015

18001:2007

ISO/IEC 17025:2017
Certificate No.: TC-6159**TEST REPORT**

Date: 10.11.2021	: Report No: ICI/HL/A/RN-853/2021	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2021/AC-853
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 01.11.2021 to 02.11.2021
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 03.11.2021
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 09.11.2021
Sample Description	: AMBIENT AIR	
Location	: NEAR SCRAP YARD	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	29.0	

Time of Sampling	Concentration ($\mu\text{g}/\text{m}^3$)								Concentration (ng/m^3)	Concentration (ng/m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:30 AM to 06:30 PM	72.42	21.62	19.23	40.34	BDL	BDL	BDL	31.9	0.2792	BDL	BDL	BDL
06:45 PM to 02:45 AM	89.08	36.07	24.29	46.23	BDL	BDL	BDL	-	0.3172	BDL	BDL	BDL
03:00 AM to 11:00 AM	82.43	25.06	18.23	39.50	BDL	BDL	BDL	-	0.3507	BDL	BDL	BDL

Limit ($\mu\text{g}/\text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis. Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$, 8 hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic=6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

Prepared By: N. Mondal

Checked By: A. Palra

For, INDICATIVE CONSULTANT INDIA

Debasish Mondal
(Sr. Chemist)
SignatureTest Witnessed By: Nil
Estimated Uncertainty: Not Required

- Note:
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as N.A.
 3. Test results shown in this test report relate only to the sample(s) only
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9001:2015

18001:2007

ISO/IEC 17025:2017
Certificate No.: TC-6199

TEST REPORT

Date: 10.11.2021	:	Report No: ICI/HL/A/RN-854/2021	Format No: ICI/FM/H/61
Customer Name	:	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2021/AC-854
Address	:	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 01.11.2021 to 02.11.2021
Customer Representative Name & Contact Number	:	Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 03.11.2021
Work Order No.	:	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 09.11.2021
Sample Description	:	AMBIENT AIR	
Location	:	BACK SIDE OF THE PLANT	
Sample Condition	:	In Glass Microfibre Filter Paper & Plastic Bottle. Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	:	CPCB. Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	:	CPCB. Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	:	29.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:45 AM to 06:45 PM	71.48	21.57	18.22	39.50	BDL	BDL	BDL	33.1	0.2811	BDL	BDL	BDL
07:00 PM to 03:00 AM	90.34	32.07	25.30	45.39	BDL	BDL	BDL	-	0.3275	BDL	BDL	BDL
03:15 AM to 11:15 AM	84.24	22.43	17.21	40.34	BDL	BDL	BDL	-	0.3417	BDL	BDL	BDL

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$ 8 hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasmita Haldia
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
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End of Report

CENTRAL LABORATORY : HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602

Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kolkata-700142, Phone : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com



(GOVT. REGISTERED TEST HOUSE)



EMAIL : indicativeconsultantindia@gmail.com/indicativeconsultantindia.kol@gmail.com

9001:2015

18001:2007

ISO/IEC 17025:2017
Certificate No. : TC-6159**TEST REPORT**

Date: 10.11.2021	: Report No: ICI/HL/A/RN-855/2021	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2021/AC-855
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 01.11.2021 to 02.11.2021
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date : 03.11.2021
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 09.11.2021
Sample Description	: AMBIENT AIR	
Location	: NEAR STOCK YARD	
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle. Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	: CPCB, Emission Regulation (Part III) / UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50); Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	: 28.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:15 AM to 06:15 PM	80.64	24.84	17.21	40.34	BDL	BDL	BDL	34.2	0.2792	BDL	BDL	BDL
06:30 PM to 02:30 AM	87.48	36.14	24.29	43.71	BDL	BDL	BDL	-	0.3117	BDL	BDL	BDL
02:45 AM to 10:45 AM	76.09	30.94	19.23	41.19	BDL	BDL	BDL	-	0.3309	BDL	BDL	BDL

Limit ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g} / \text{m}^3$, PM_{2.5}=60 $\mu\text{g} / \text{m}^3$, SO₂=80 $\mu\text{g} / \text{m}^3$, NO₂=80 $\mu\text{g} / \text{m}^3$, Lead=1.0 $\mu\text{g} / \text{m}^3$, Ammonia=400 $\mu\text{g} / \text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg / m^3 , O₃=100 $\mu\text{g} / \text{m}^3$, 8hours basis, Benzene=5 $\mu\text{g} / \text{m}^3$, Benzopyrene=1 ng / m^3 , Arsenic =6 ng / m^3 , Nickel=20 ng / m^3 , Annual basis, For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debasish Haldia
(Sr. Chemist)
Signatory AuthorityTest Witnessed By: Nil
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
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Page 1 of 1

End of Report

CENTRAL LABORATORY : HPL Link Road, Basudevapur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602
Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kolkata-700142. Phone : 7797245819, 7797506970
WEBSITE : www.indicativeconsultantindia.com

**TEST REPORT**

Date: 12.11.2021	Report No: ICI/HL/W/RN-1857/2021	Format No: ICI/FM/H/67
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	: Dewannamro, Ayma, P.O.-Hariatara, P.S.- Kharagpur, Paschim Medinipur.	Sampling Date
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time
Letter Ref. No.	: -	Analysis Start Date
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date
Name of the Work	: -	
Sample Description	: DRINKING WATER	
Sample Condition	: In Plastic Bottle & Glass Bottle	
Sampling Method	: IS:3025 (Part I): 1987 (RA 2019), APHA 23 rd ed 2017	
Test Method	: APHA 23 rd ed 2017, IS:3025	
Location	: INSIDE OF THE PLANT	

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
ORGANOLEPTIC AND PHYSICAL PARAMETERS						
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS: 3025(Part-5): 2018 APHA 23 rd Edition 2150 B
3.	pH (at 26°C)	-	6.55	6.5 to 8.5	No Relaxation	IS: 3025(Part-11): 1983; RA 2017, APHA 23 rd Edition 4500-H ⁺ B
4.	Colour	Hazen Unit	<5.0	5	15	IS: 3025(Part-4) 1983; RA 2017
5.	Conductivity	µS/cm	143.1	-	-	IS: 3025(Part-14): 1984; RA 2019 APHA 23 rd Edition 2510 B
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS: 3025(Part-10): 1984; RA 2017 APHA 23 rd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	103.0	500 (Max)	2000 (Max)	IS: 3025(Part-16): 1984; RA 2017 APHA 23 rd Edition 2540 C
GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS						
8.	Total Hardness as CaCO ₃	mg/L	45.8	200 (Max)	600 (Max)	IS: 3025(Part-21): 2009; RA 2019 APHA 23 rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	35.6	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	10.2	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	14.3	75 (Max)	200 (Max)	IS: 3025(Part-40): 1991; RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	2.5	30 (Max)	100 (Max)	IS: 3025(Part-46): 1994; RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	13.4	250 (Max)	1000 (Max)	IS: 3025(Part-32): 1988; RA 2019 APHA 23 rd Edition 4500Cl ⁻ B
14.	Total Alkalinity as CaCO ₃	mg/L	33.8	200 (Max)	600 (Max)	IS: 3025(Part-23): 1986; RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	33.8	-	-	APHA 23 rd Edition 2320B
17.	Iron as Fe	mg/L	0.11	0.3 (Max)	No Relaxation	IS: 3025(Part-53): 2003; RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	12.4	200 (Max)	400 (Max)	IS: 3025(Part-24): 1986; RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E



- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
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 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
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 6. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.



For, INDICATIVE CONSULTANT INDIA

Checked By: A. Parra

Prepared By: N. Mondal

Test Witnessed By: Nil
 Estimated Uncertainty: Not Required

Remarks:
 1) Chemical test parameters: **Compliance** - The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012
 2) Bacteriological test parameters: **Compliance** - The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012

SL No.	Parameters	Unit	Result	Desirable Limit	Permissible limit in the absence of alternate source	Method Followed
As Per IS:10500:2012						
PARAMETERS CONCERNING TOXIC SUBSTANCES						
23.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
BACTERIOLOGICAL PARAMETERS						
24.	Total Coliform	NPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	E. Coli	CFU/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Silica as SiO ₂	mg/L	29.1	-	-	IS: 3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
21.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS: 3025(Part-60):2008, RA 2019 APHA 23 rd Edition 4500 FD
22.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B

Report No: ICI/H1/LW/RN-1857/2021



Page: 1 of 2

Sl. No.	Parameters	Unit	Result	Desirable Limit	Permissible limit in the absence of alternate source	Method Followed
ORGANOLEPTIC AND PHYSICAL PARAMETERS						
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
3.	pH (at 26°C)	-	6.50	6.5 to 8.5	No Relaxation	IS:3025(Part-1):1983 : RA 2017 APHA 23 rd Edition 4500-H B
4.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4):1983 : RA 2017
5.	Conductivity	µS/cm	143.9	-	-	IS:3025(Part-14):1984 : RA 2019 APHA 23 rd Edition 2510 B
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984 : RA 2017 APHA 23 rd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	102.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984 : RA 2017 APHA 23 rd Edition 2540 C
GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS						
8.	Total Hardness as CaCO ₃	mg/L	46.9	200 (Max)	600 (Max)	IS:3025(Part-21):2009 : RA 2019 APHA 23 rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	37.7	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	9.2	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	15.1	75 (Max)	200 (Max)	IS:3025(Part-40):1991 : RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	2.2	30 (Max)	100 (Max)	IS:3025(Part-16):1994 : RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	21.2	250 (Max)	1000 (Max)	IS:3025(Part-32):1988 : RA 2019 APHA 23 rd Edition 4500Cl B
14.	Total Alkalinity as CaCO ₃	mg/L	33.8	200 (Max)	600 (Max)	IS:3025(Part-23):1986 : RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	33.8	-	-	APHA 23 rd Edition 2320B
17.	Iron as Fe	mg/L	0.13	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003 : RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	13.2	200 (Max)	400 (Max)	IS:3025(Part-24):1986 : RA 2019 APHA 23 rd Edition 4500 SO ₄ E

Date: 12.11.2021	Report No: ICI/HLW/RN-1856/2021	Formal No: ICI/FM/H/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2021/W-1856
Address	Dewanmataro, Ayma, P.O.-Haritara, P.S.- Kharagpur, Paschim Medinipur.	Sampling Date : 01.11.2021
Customer Representative	Mr. Tarakanth Bose	Sampling Time : 12:40 PM
Name & Contact Number	Mob. No. 70 63511804	Analysis Start Date : 02.11.2021
Letter Ref. No.	-	Analysis complete Date : 11.11.2021
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	
Name of the Work	-	
Sample Description	DRINKING WATER	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part I): 1987 (RA 2019), APHA 23 rd ed 2017	
Test Method	APHA 23 rd ed 2017, IS:3025	
Location	GUEST HOUSE	

TEST REPORT

Towards Sustainable Growth



(GOVT. REGISTERED TEST HOUSE)





Report No: ICI/HL/W/RN-1856/2021

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Silica as SiO ₂	mg/L	27.6	-	-	IS: 3025(Part-35): 1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
21.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS: 3025(Part-60): 2008 : RA 2019 APHA 23 rd Edition 4500 FD
22.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
PARAMETERS CONCERNING TOXIC SUBSTANCES						
23.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
BACTERIOLOGICAL PARAMETERS						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	E. Coli	CFU/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks:

- 1) Chemical test parameters: **Compliance** – The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012
- 2) Bacteriological test parameters: **Compliance** – The above mentioned test parameters are within desirable limit as per specification IS 10500:2012

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halder
(Sr. Chemist)
Signatory Authority

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample(s) only
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-----End of Report-----



TEST REPORT

Date: 08.11.2021	Report No: ICI/HLN/TC-211/2021	Format No: ICI/FM/H/68
Customer Name	M/s. Ramco Industries Ltd.	
Address	Dewanmuro, Ayra, P.O.-Harialara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative	Mr. Tarakanath Bose	
Name & Contact No.	Mob. No. 70 63511804	
Work Order No.	KHG/POR/0440/20-21, Dtd. 07.04.2021	
Sample Description	AMBIENT NOISE	
Sampling Method	By Digital Noise Meter	
Test Method	IS 9989:1981 (RA 2014)	
Monitoring Details:		
Height from the floor	1.5 M	Total Time (T)
Distance of Source	3.0 M	Difference (dt)
		2 Min

Noise Source/ Location: NEAR MAIN GATE		DAY TIME	
Sample ID	Sampling Date	Sampling Time	Results dB(A)
2021/N-977	01.11.2021	10:00 AM	
			Equivalent Noise (L _{eq}) dB(A)
			Maximum Noise (L _{max}) dB(A)
			Minimum Noise (L _{min}) dB(A)
			Limit* dB(A)
			As per note
Noise Source/ Location: NEAR STOCK YARD		DAY TIME	
Sample ID	Sampling Date	Sampling Time	Results dB(A)
2021/N-978	01.11.2021	10:30 AM	
			Equivalent Noise (L _{eq}) dB(A)
			Maximum Noise (L _{max}) dB(A)
			Minimum Noise (L _{min}) dB(A)
			Limit* dB(A)
			As per note
Noise Source/ Location: BACKSIDE OF THE PLANT		DAY TIME	
Sample ID	Sampling Date	Sampling Time	Results dB(A)
2021/N-979	01.11.2021	11:00 AM	
			Equivalent Noise (L _{eq}) dB(A)
			Maximum Noise (L _{max}) dB(A)
			Minimum Noise (L _{min}) dB(A)
			Limit* dB(A)
			As per note
Noise Source/ Location: NEAR SCRAP YARD		DAY TIME	
Sample ID	Sampling Date	Sampling Time	Results dB(A)
2021/N-980	01.11.2021	11:30 AM	
			Equivalent Noise (L _{eq}) dB(A)
			Maximum Noise (L _{max}) dB(A)
			Minimum Noise (L _{min}) dB(A)
			Limit* dB(A)
			As per note



Report No: ICI/HL/N/TC-211/2021

*Note:

NOISE STANDARD

Area Code	Category of Area/Zone	Limits dB (A) Leq	
		Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Source: The Noise Pollution (Regulation & Control) Rules, 2000

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halda

(Sr. Chemist)

Signatory Authority



Test Witnessed By: Sampling was done in front of customer's representative

Estimated Uncertainty: Not Required

Note: 1

Sample is drawn by M/s. Indicative Consultant India

Sample submitted and identified by customer as: N/A

Test results shown in this report relate only to the sample (s) only

The test results referred in test report are based on observations & measurements under the stated environmental conditions

Noise data was recorded at the customer site in presence of customer's representative

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End of Report

Page 2 of 2



TEST REPORT

Date: 08.11.2021	:	Report No: ICI/HL/N/TC-212/2021	Format No: ICI/FM/H/14
Customer Name	:	M/s. Ramco Industries Ltd.	
Address	:	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative Name & Contact No.	:	Mr. Taraknath Bose Mob. No. 7063511804	
Work Order No.	:	KHG/POR/0025/21-22, Dtd. 07.04.2021	
Sample Description	:	WORKZONE NOISE	
Sampling Method	:	By Digital Noise Meter	
Test Method	:	IS 4758:1968 (RA 2017)	
Monitoring Details:			
Height from the floor	:	1.5 M	Total Time (T) : 18 Min
Distance of Source	:	3.0 M	Difference (dt) : 2 Min

Noise Source/ Location: NEAR BOD						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2021/N-981	01.11.2021	12:10 PM	84.52	85.2	83.6	As per note

Noise Source/ Location : NEAR SF DRUM						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2021/N-982	01.11.2021	12:30 PM	85.56	86.7	84.5	As per note

Noise Source/ Location: NEAR CORRUGATION BOX						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2021/N-983	01.11.2021	12:50 PM	87.33	88.2	86.1	As per note

Noise Source/ Location: STRIPPING SECTION						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2021/N-984	01.11.2021	01:10 PM	87.56	88.3	86.3	As per note

*Note:

OSHA's Permissible limit (PEL) is 90 dB (A) for all workers of an 8 Hour Day with 5 dB (A) exchange Rate
 Indian Factory Act 1948 Permissible limit (PEL) is 90 dB (A) for all workers of an 8 Hour Day

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA



Test Witnessed By: Sampling was done in front of customer's representative
 Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: SIA.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. Noise data was recorded at the customer site in presence of customer's representative.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.

-----End of Report-----

Page 1 of 1



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021
		Period of Analysis	: 18.12.2021 - 20.12.2021
		Date of Issue	: 22.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/38/Dec./A/I	Report No.	: ENV/38/Dec./TR(A)/I/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

StackAttached to	:	Cement & Fly Ash Feeding Section			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	15.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.40
Capacity	:	10 Ton/hr. (Running Load – 06 Ton/hr.)	Height of sampling port (mtr.) (from G.L.)	:	8.4
Emission Due to	:	Process Activity (Feeding of Raw Materials)			
Fuel Used	:	N.A.	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Nil			
Pollution Control Device	:	Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 32.0
2.	Barometric Pressure	mm of Hg.	--	: 764.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.16
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3645.57
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.78

Remarks :

Reviewed By :

DURENDRA K. HATTABORTY
Dy. Quality Manager

Approved By :

Dr. AJAY PAUL
Quality Manager



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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021
		Period of Analysis	: 18.12.2021 - 20.12.2021
		Date of Issue	: 22.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/38/Dec./A/II	Report No.	: ENV/38/Dec./TR(A)/II/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

StackAttached to	:	Edge Runner Mill BOD (Bag Open Device & Slurry Mixing)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	15.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.30
Capacity	:	03 Ton/hr. (Running - 03 Ton/hr.)	Height of sampling port (mtr.) (from G.L.)	:	8.4
Emission Due to	:	Process Activity			
Fuel Used	:	N.A.	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Nil			
Pollution Control Device	:	Bag Filter and Wet Scrubber			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 29.0
2.	Barometric Pressure	mm of Hg.	--	: 764.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.29
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 4031.20
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.82

Remarks :

Reviewed By :

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Quality Manager



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021 - 14.12.2021
		Period of Analysis	: 18.12.2021 - 20.12.2021
		Date of Issue	: 22.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/38/Dec./A/III	Report No.	: ENV/38/Dec./TR(A)/III/21-22

A] GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

B] METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 26.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 764.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C] RESULTS

Sl. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	51.64
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	82.66
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	11.75
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	36.49
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.26
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, Issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Dr. Joy Paul
Quality Manager

Approved By :

Dr. JOY PAUL
Quality Manager



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TEST REPORT

FORMAT NO.: ENV/EM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021 - 14.12.2021
		Period of Analysis	: 18.12.2021 - 20.12.2021
		Date of Issue	: 22.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/38/Dec./A/IV	Report No.	: ENV/38/Dec./TR(A)/IV/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Stock Yard
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 26.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 764.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	56.29
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	91.50
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	12.60
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	32.87
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.24
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By:

Dy. Quality Manager

Approved By:

Dr. AJAY PAUL
Quality Manager



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021 - 14.12.2021
		Period of Analysis	: 18.12.2021 - 20.12.2021
		Date of Issue	: 22.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/38/Dec./A/V	Report No.	: ENV/38/Dec./TR(A)/V/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Scrap Yard
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 27.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 764.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	54.25
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	92.40
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	10.68
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	30.94
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.20
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Approved By :

Dr. AJOY PAUL
Quality Manager



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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021 - 14.12.2021
		Period of Analysis	: 18.12.2021 - 20.12.2021
		Date of Issue	: 22.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/38/Dec./A/VI	Report No.	: ENV/38/Dec./TR(A)/VI/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Back Side of the Plant
2. Duration of Sampling : 24 hrs. (10:30 a.m. - 10:30 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 28.0
2. Average Relative Humidity (%) : 54.0
3. Barometric Pressure (mm of Hg) : 764.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear Sky

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	49.10
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	87.15
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.40
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	26.78
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.18
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

LABORATORY

Lab. Manager

Approved By :

 Dr. ANJOY PAUL
 Quality Manager



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021
		Period of Analysis	: 17.12.2021 - 24.12.2021
		Date of Issue	: 27.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Quality Control Lab	ULR No.	: TC601421000000230F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT (IS 10500:2012)	
				Acceptable	Permissible
1. Colour	IS 3025 (Part 4): 1983, RA 2012	Hazen	<1.0	5.0	15.0
2. Odour	IS 3025 (Part 5): 1983, RA 2012	--	Odourless	Agreeable	Agreeable
3. pH	IS 3025 (Part 11): 1984, RA 2012	--	6.78	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 7 and 8): 1983, RA 2012	--	Acceptable	Agreeable	Agreeable
5. Turbidity	IS 3025 (Part 10): 1984, RA 2012	NTU	<1.0	1.0	5.0
6. Total Dissolved Solids	IS 3025 (Part 16): 1984, RA 2014	mg/l	122.0	500.0	2000.0
7. Aluminium	IS 15302: 2003, RA 2014	mg/l	<0.02	0.03	0.2
8. Calcium	IS 3025 (Part 40): 1991, RA 2014	mg/l	14.4	75.0	200.0
9. Chloride	IS 3025 (Part 32): 1988, RA 2014	mg/l	10.0	250.0	1000.0
10. Iron	IS 3025 (Part 53): 2003, RA 2014	mg/l	0.16	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg/l	2.88	30.0	100.0
12. Manganese	IS 3025 (Part 59): 2006, RA 2012	mg/l	<0.05	0.1	0.3
13. Nitrate	IS 3025 (Part 34): 1988, RA 2014	mg/l	1.80	45.0	No Relaxation
14. Sulphate	IS 3025 (Part 24): 1986, RA 2014	mg/l	16.50	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg/l	52.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg/l	48.0	200.0	600.0
17. Zinc	IS 3025 (Part 49): 1994, RA 2014	mg/l	0.26	5.0	15.0
18. Mercury	IS 3025 (Part 48): 1994, RA 2009	mg/l	<0.001	0.001	No Relaxation
19. Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg/l	<0.01	0.01	No Relaxation*
20. Chromium	IS 3025 (Part 52): 2003, RA 2014	mg/l	<0.02	N.A.	N.A.
21. Silica	APHA 23rd Ed., 4500 SiO ₂ -C/F: 2017	mg/l	1.20	N.A.	N.A.

Remarks: a) Result shows that all parameters are within limit as per IS: 10500 - 2012.

b) N.A. means Not Available.

c) The (*) marked limit are as per IS: 10500-2012 - Drinking Water Specification, Amendment No.1, June'2015.

Reviewed By:

[Signature]
DURBAN LABORATORY
By Quality Manager

Approved By:

[Signature]
Dr. AJAY PAUL
Quality Manager



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021
		Period of Analysis	: 17.12.2021 - 18.12.2021
		Date of Issue	: 27.12.2021
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Quality Control Lab	ULR No.	: TC601421000000230F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT as per IS 10500: 2012
1. Total Coliform	9222B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample

Remarks : a) Result shows that all parameters are within limit as per IS 10500 : 2012. (<1.0 Indicates "Absent" No Colony Developed i.e. No Coliform Found).
b) CFU Indicates Colony Forming Unit.

Reviewed By :


Dr. AJOY PAUL
Quality Manager

Approved By :


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TEST REPORT

FORMAT NO. ENV/EM/55

Name of the Industry : Ramco Industries Ltd.	Address : Vill. - Dewannarao Ayma, P.O. - Hartatara, Kharagpur, Paschim Medinipur - 721304	Sampling Plan : ENV/SOP/01	Deviation from the Sampling Method and Plan : No	Type of Industry : Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit	Location : Tap of Guest House
					ULR No. : TC60142100000231F
					Location : Drinking Water
Sampling Date : 13.12.2021	Period of Analysis : 17.12.2021 - 24.12.2021	Date of Issue : 27.12.2021			

PARAMETERS	METHOD	UNIT	RESULTS		LIMIT (IS 10500 : 2012)
1. Colour	IS 3025 (Part 4): 1983, RA 2012	Hazen	<1.0	5.0	Acceptable
2. Odour	IS 3025 (Part 5): 1983, RA 2012	--	Odourless	Agreeable	Agreeable
3. pH	IS 3025 (Part 11): 1984, RA 2012	--	6.80	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 7 and 8): 1983, RA 2012	--	Acceptable	Agreeable	Agreeable
5. Turbidity	IS 3025 (Part 10): 1984, RA 2012	NTU	<1.0	1.0	5.0
6. Total Dissolved Solids	IS 3025 (Part 16): 1984, RA 2014	mg/l	118.0	500.0	2000.0
7. Aluminium	IS 15302: 2003, RA 2014	mg/l	<0.02	0.03	0.2
8. Calcium	IS 3025 (Part 40): 1991, RA 2014	mg/l	13.6	75.0	200.0
9. Chloride	IS 3025 (Part 32): 1988, RA 2014	mg/l	9.0	250.0	1000.0
10. Iron	IS 3025 (Part 53): 2003, RA 2014	mg/l	0.12	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg/l	2.88	30.0	100.0
12. Manganese	IS 3025 (Part 59): 2006, RA 2012	mg/l	<0.05	0.1	0.3
13. Nitrate	IS 3025 (Part 34): 1988, RA 2014	mg/l	1.50	45.0	No Relaxation
14. Sulphate	IS 3025 (Part 24): 1986, RA 2014	mg/l	11.80	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg/l	52.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg/l	46.0	200.0	600.0
17. Zinc	IS 3025 (Part 49): 1994, RA 2014	mg/l	0.11	5.0	15.0
18. Mercury	IS 3025 (Part 48): 1994, RA 2009	mg/l	<0.001	0.001	No Relaxation
19. Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg/l	<0.01	0.01	No Relaxation
20. Chromium	IS 3025 (Part 52): 2003, RA 2014	mg/l	<0.02	N.A.	N.A.
21. Silica	APHA 23 rd Ed, 4500 SiO ₂ -C/F : 2017	mg/l	1.50	N.A.	N.A.

Remarks : a) Result shows that all parameters are within limit as per IS : 10500 - 2012.
b) N.A. means Not Available.
c) The (*) marked limit are as per IS : 10500-2012 - Drinking Water Specification, Amendment No.1, June 2015.

Reviewed By :
Approved By :
Quality Manager

H.O. : 63/B, Rastriaguru Avenue, Kolkata - 700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
Laboratory : 189, 190 & 192, Rastriaguru Avenue, Kolkata - 700028 ■ Ph. 033 25792889
E-mail : info@envirocheck.in / envirocheck50@gmail.com ■ Website : www.envirocheck.in
Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
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ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Accredited by NABL (ISO/IEC 17025:2017)
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit		
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 13.12.2021		
		Period of Analysis	: 17.12.2021 - 18.12.2021		
		Date of Issue	: 27.12.2021		
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No	Type of Sample	: Drinking Water
Location	: Tap of Guest House	ULR No.	: TC601421000000231F		

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT as per IS 10500:2012
1. Total Coliform	9222B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample

Remarks : a) Result shows that all parameters are within limit as per IS 10500:2012. (<1.0 indicates "Absent" No Colony Developed i.e. No Coliform Found).
b) CFU indicates Colony Forming Unit.

Reviewed By :

DURE SOAL LABORATORY
[Signature]
E. Coli Manager

Approved By :

[Signature]
Dr. AJOY PAUL
Quality Manager



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Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO.: ENV/PM/56

TEST REPORT

1.	Name of the Industry	: Ramco Industries Limited
2.	Address	: Village-Dewanmari Ayma, P.O. - Hariatara, P.S. - Kharagpur, District - Pachim Medinipur, Pin- 721301.
3.	Type of Industry	: Asbestos Cement Corrugated & Accessories Manufacturing Unit
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Noise
7.	Sample ID	: ENV/02/Dec./N
8.	Report ID	: ENV/02/Dec./TR(N)/21-22
9.	Date of Study	: 13/12/2021
10.	Reporting Date	: 22/12/2021
11.	Method No.	: IS: 9989 - 1981
12.	Duration of Noise	: 20 Minutes
13.	Height from Ground Level	: 4 feet
14.	Sample Monitoring By	: Mr. Pappu Hazra

RESULT OF NOISE LEVEL STUDY

DAY TIME				
1.	Location of Study	: Near Main Gate		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	09:00 - 09:20	51.4	55.0	53.56
NIGHT TIME				
2.	Location of Study	: Near Main Gate		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:00 - 10:20	48.2	50.7	49.63
DAY TIME				
3.	Location of Study	: Near Stock Yard		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	09:30 - 09:50	59.0	63.1	61.52
NIGHT TIME				
4.	Location of Study	: Near Stock Yard		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:30 - 10:50	52.4	57.0	55.28
DAY TIME				
5.	Location of Study	: Near Scrap Yard		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:00 - 10:20	63.2	69.4	67.32
NIGHT TIME				
6.	Location of Study	: Near Scrap Yard		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	11:00 - 11:20	49.7	54.0	52.36
DAY TIME				
7.	Location of Study	: Back Side of the Plant		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	11:30 - 11:50	64.8	69.0	67.39
NIGHT TIME				
8.	Location of Study	: Back Side of the Plant		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	11:30 - 11:50	63.0	67.5	65.81

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ISO 9001:2015

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Certification Body
ISO 14001:2015

IAS
ACCREDITED
Management System
Certification Body
MSCB-190
ISO 45001:2018

** Mean of L_{eq} - Equivalent to Sound Energy		
Limit in L_{eq} dB(A)		
Category Area	Day Time dB(A)	Night Time dB(A)
A. Industrial Area	75	70
B. Commercial Area	65	55
C. Residential Area	55	45
D. Silence Zone	50	40
**Day Time is reckoned in between 6:00 A.M & 10:00 P.M		**Night Time is reckoned in between 10:00 P.M & 6:00 A.M
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)		
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)		
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS		
Hours	Limit in dB(A)	
8	90	
4	93	
2	96	
1	99	
1/2	102	
1/4	105	
1/8	108	
1/16	111	
1/32	114	
(2 minutes or less)	-	

Reviewed By:

Approved By:

DURBAN LABORATORY
By. Quality Manager

Dr. AJAY PAUL
Quality Manager

> End of Report <

H.O. : 63/B, Rastraguru Avenue, Kolkata - 700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25299141
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Overseas : UAE ■ Qatar ■ Netherlands



TEST REPORT

Date: 15.01.2022	Report No: ICI/HL/A/PTC-042/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-042
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 11.01.2022
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time : 09:50 AM
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis Start Date : 14.01.2022
Sample Description	STACK AIR	Analysis complete Date : 15.01.2022
Location	EDGE RUNNER MILL BOD & SLURRY MIXING	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS: 11255 (Part -I), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	Stack attached to	Edge runner Mill BOD & Slurry Mixing	Shape of Stack	Circular
Emission due to	Process Activities		Material of Construction	M.S.
Fuel Used	-		Stack ID at sampling point (M)	0.30
Rated Fuel Consumption	-		At Bottom (M)	-
Working Fuel Consumption	-		At Top (M)	0.30
Calorific Value(Kcal/kg)	-		Height Details:	
Sulphur Content (% by Wt)	-		a) Total Ht. Of stack from GL(M)	15.0
Ash Content (% by Wt.)	-		b) Total Ht. Of stack from RL(M)	-
Pollution Control Device	Bag Filter & Wet Scrubber		c) Ht. of sampling port from GL(M)	8.4
Whether Stack is provided with permanent Platform / Ladder	Yes		d) Ht. of port from disturbance zone (M)	-

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	30	Steam Generation Capacity:	
Barometric Pressure(mm Hg)	756	a) Rated	-
Velocity of Gas flow (m/s)	8.51	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	2118.36	Load: a) Rated	-
Pressure	-	b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	1.4
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/ Nm ³)	-
04.	NOx (mg/m ³)	-
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	<0.2

For, INDICATIVE CONSULTANT INDIA

Prepared By: M. Mondal

Checked By: A. Patra

Debashis Halder
(Sr. Chemist)
Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note:
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: M.A.
 3. Test results shown in this test report relate only to the sample (s)-only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T- 45 from the date of issue unless otherwise specified.
 7. All general information's of stack are provided by the party

Page 1 of 1

End of Report

CENTRAL LABORATORY : HF-L Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602

Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kolkata-700142, Phone : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com



TEST REPORT

Date: 15.01.2022	Report No: ICI/HL/A/PTC-043/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-043
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 11.01.2022
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time : 10:50 AM
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis Start Date : 14.01.2022
Sample Description	STACK AIR	Analysis complete Date : 15.01.2022
Location	CEMENT & FLY ASH FEEDING SECTION	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS: 11255 (Part -1), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	: Circular
Stack attached to	Cement & Fly ash feeding Section	Material of Construction	: M.S.
Emission due to	Feeding of Raw Material	Stack ID at sampling point (M)	: 0.40
Fuel Used	-	At Bottom (M)	: -
Rated Fuel Consumption	-	At Top (M)	: 0.40
Working Fuel Consumption	-	Height Details :	
Calorific Value(Kcal/kg)	-	a) Total Ht. Of stack from GL(M)	: 15.0
Sulphur Content (% by Wt)	-	b) Total Ht. Of stack from RL(M)	: -
Ash Content (% by Wt.)	-	c) Ht. of sampling port from GL(M)	: 8.4
Pollution Control Device	Bag Filter	d) Ht. of port from disturbance zone (M)	: -
Whether Stack is provided with permanent Platform / Ladder	Yes		

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 30	Steam Generation Capacity :	
Barometric Pressure(mm Hg)	: 756	a) Rated	: -
Velocity of Gas flow (m/s)	: 8.02	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 3552.84	Load : a) Rated	: -
Pressure	: -	b) Running	: 10 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	: 1.6
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	: -
03.	Sulphur di-oxide (mg/ Nm ³)	: -
04.	NOx (mg/m ³)	: -
05.	CO % (V/V)	: <0.2
06.	CO ₂ % (V/V)	: <0.2

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Detasha's Mark
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-46 from the date of issue unless otherwise specified
 7. All general information's of stack are provided by the party



Page 1 of 1

CENTRAL LABORATORY : HF-L Link Road, Basudevapur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602

Phone No.: 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kolkata-700142, Phone : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com

TEST REPORT

Date: 15.01.2022	Report No: ICI/H/LA/PTC-044/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewammaro, Ayma, P.O.-Haratara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date
Customer Representative Name	Mr. Tarakanath Bose	Sampling Time
& Contact Number	Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Did. 07.04.2021	Analysis complete Date
Sample Description	STACK AIR	
Location	D.G. SET (725 KVA)	
Sample Condition	In Glass Microfiber Thimble & Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS 11255 (Part -1):1985 (RA 2019), IS 11255 (Part -3):2008 (RA 2018), IS 11255 (Part -2):1985 (RA 2019), ORSAT Method, EPA Method No. - 7	

A. GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	D.G. Set (725 KVA)	Combustion of H.S.D.	Material of Construction	M.S.	Shape of Stack	Circular
Stack attached to	Emission due to	Fuel Used	Rated Fuel Consumption	Working Fuel Consumption	Calorific Value(Kcal/kg)	
			145 Lit/Hr.	145 Lit/Hr.		
			H.S.D.			
			Stack ID at sampling point (M)	0.20	At Bottom (M)	-
			At Top (M)	0.20		
			Height Details:			
			a) Total Ht. Of stack from GL(M)	16.0		
			b) Total Ht. Of stack from RL(M)	-		
			c) Ht. of sampling port from GL(M)	8.40		
			d) Ht. of port from disturbance zone (M)	-		
Pollution Control Device	Nil					
Whether Stack is provided with permanent Platform / Ladder : Yes						

B. PHYSICAL DATA:

Flue Gas Temperature (°C)	164	Steam Generation Capacity:	a) Rated	-	b) Running	725 KVA
Barometric Pressure,(mm Hg)	756		a) Rated	-	b) Running	725 KVA
Velocity of Gas flow (m/s)	13.65					
Quantity of Gas flow (Nm ³ /hr)	1048.69					
Pressure	-					

C. RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	50.0
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-
03.	Sulphur di-oxide (mg/Nm ³)	213.16
04.	NOx (mg/m ³)	144.46
05.	CO % (V/V)	<0.2
06.	CO ₂ % (V/V)	6.8

For, INDICATIVE CONSULTANT INDIA

Debasish Halder

(Sr. Chemist)

Signature Authority



Prepared By: N. Mondal

Checked By: A. Patra

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

Sample is drawn by M/s. Indicative Consultant India

Sample submitted and identified by customer as: N.A.

Test results shown in this report relate only to the sample (s) only

The test results referred in test report are based on observations & measurements under the stated environmental conditions.

The reproduction of the report except in full is invalid without written approval of the laboratory

Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-48 from the date of issue unless otherwise specified

All general information's of stack are provided by the party

**TEST REPORT**

Date: 15.01.2022	Report No: ICI/HL/A/PTC-045/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-045
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 11.01.2022
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time : 01:00 PM
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis Start Date : 14.01.2022
Sample Description	STACK AIR	Analysis complete Date : 15.01.2022
Location	PULVERIZER SECTION	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	
Test Method	CPCB, Emission Regulation (Part III), IS: 11255 (Part -I), 1985, Reaffirmed 2003, IS: 11255 (Part -3) 2008, ORSAT Method	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	: Circular
Stack attached to	Pulverizer Section	Material of Construction	: M.S.
Emission due to	Process Activity	Stack ID at sampling point (M)	: 0.2541
Fuel Used	-	At Bottom (M)	: -
Rated Fuel Consumption	-	At Top (M)	: -
Working Fuel Consumption	-	Height Details :	
Calorific Value(Kcal/kg)	-	a) Total Ht. Of stack from GL(M)	: 15.0
Sulphur Content (% by Wt)	-	b) Total Ht. Of stack from RL(M)	: -
Ash Content (% by Wt.)	-	c) Ht. of sampling port from GL(M)	: 6.70
Pollution Control Device	Bag Filter	d) Ht. of port from disturbance zone (M)	: -
Whether Stack is provided with permanent Platform / Ladder	Yes		

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 34	Steam Generation Capacity :	
Barometric Pressure.(mm Hg)	: 756	a) Rated	: -
Velocity of Gas flow (m/s)	: 7.82	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 1379.92	Load : a) Rated	: -
Pressure	: -	b) Running	: 1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained
01.	Particulate Matter (mg/Nm ³)	: 1.8
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	: -
03.	Sulphur di-oxide (mg/ Nm ³)	: -
04.	NOx (mg/m ³)	: -
05.	CO % (V/V)	: <0.2
06.	CO ₂ % (V/V)	: <0.2

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debasish Halder
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample(s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-47 from the date of issue unless otherwise specified.
 7. All general information's of stack are provided by the party.



Page 1 of 1

—End of Report—



TEST REPORT

Date: 15.01.2022	: Report No: ICI/HL/A/RN-012/2022	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/AC-012
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 11.01.2022 to 12.01.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 13.01.2022
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 15.01.2022
Sample Description	: AMBIENT AIR	
Location	: NEAR MAIN GATE	
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	: CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Ambient Temperature in °C (Average)	: 19.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:00 AM to 06:00 PM	79.58	26.53	17.20	40.34	BDL	BDL	BDL	37.5	0.2611	BDL	BDL	BDL
06:15 PM to 02:15 AM	85.32	35.67	23.28	46.23	BDL	BDL	BDL	-	0.3217	BDL	BDL	BDL
02:30 AM to 10:30 AM	93.75	33.33	19.23	41.19	BDL	BDL	BDL	-	0.3374	BDL	BDL	BDL
24 Hours Average	86.22	31.84	19.90	42.59	BDL	BDL	BDL	37.5	0.3067	BDL	BDL	BDL

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$, 8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive AreaRef: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Hatra

Debasish Haldar
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
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End of Report

CENTRAL LABORATORY : HF-L Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602

Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kolkata-700142, Phone : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com

**TEST REPORT**

Date: 15.01.2022	Report No: ICI/HL/A/RN-013/2022	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/AC-013
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 11.01.2022 to 12.01.2022
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 13.01.2022
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 15.01.2022
Sample Description	AMBIENT AIR	
Location	NEAR SCRAP YARD	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	19.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:45 AM to 06:45 PM	75.04	25.38	16.19	39.50	BDL	BDL	BDL	39.2	0.2575	BDL	BDL	BDL
07:00 PM to 03:00 AM	81.36	31.67	24.29	45.39	BDL	BDL	BDL	-	0.3119	BDL	BDL	BDL
03:15 AM to 11:15 AM	94.65	30.86	17.20	40.34	BDL	BDL	BDL	-	0.3418	BDL	BDL	BDL
24 Hours Average	83.68	29.30	19.23	41.74	BDL	BDL	BDL	39.2	0.3037	BDL	BDL	BDL

Limit ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$ 8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive AreaRef: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 15th November 2009

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halder
(Sr. Chemist)
Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
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Page 1 of 1

End of Report

CENTRAL LABORATORY : HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602

Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur (M), Block-B, Maheshtala, Kolkata-700142, Phone : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com



TEST REPORT

Date: 15.01.2022	: Report No: ICI/HL/A/RN-014/2022	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/AC-014
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 11.01.2022 to 12.01.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 13.01.2022
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 15.01.2022
Sample Description	: AMBIENT AIR	
Location	: NEAR STOCK YARD	
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	: CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	: 19.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:15 AM to 06:15 PM	73.28	27.74	16.19	39.50	BDL	BDL	BDL	40.1	0.2573	BDL	BDL	BDL
06:30 PM to 02:30 AM	81.53	33.33	25.30	47.91	BDL	BDL	BDL	-	0.3007	BDL	BDL	BDL
02:45 AM to 10:45 AM	92.85	26.99	19.23	42.87	BDL	BDL	BDL	-	0.3311	BDL	BDL	BDL
24 Hours Average	82.55	29.35	20.24	43.43	BDL	BDL	BDL	40.1	0.2964	BDL	BDL	BDL

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$ 8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November '2009

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halder
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions
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TEST REPORT

Date: 15.01.2022	Report No: ICHL/A/RN-015/2022	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewannaro, Ayma, P.O.-Harilata, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date
Customer Representative Name & Contact Number	M/s. Taranath Bose Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date
Sample Description	AMBIENT AIR	
Location	BACK SIDE OF THE PLANT	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Test Method	CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50); Appendix L, IS: 5182 (Part - 2); 2001 (RA 2017), IS: 5182 (Part - 6); 2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Ambient Temperature in °C (Average)	19.0	

Time of Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
10:30 AM to 06:30 PM	70.40	24.30	17.20	40.34	BDL	BDL	BDL	39.5	0.2611	BDL	BDL	BDL
06:45 PM to 02:45 AM	79.20	30.64	24.29	45.39	BDL	BDL	BDL	-	0.3117	BDL	BDL	BDL
03:00 AM to 11:00 AM	93.93	25.40	18.21	42.03	BDL	BDL	BDL	-	0.3425	BDL	BDL	BDL
24 Hours Average	81.18	26.78	19.90	42.59	BDL	BDL	BDL	39.5	0.3051	BDL	BDL	BDL

Limit (µg / m³) Ambient Air Quality standard (National)

PM₁₀ = 100 µg/m³, PM_{2.5} = 60 µg/m³, SO₂ = 80 µg/m³, NO₂ = 80 µg/m³, Lead = 1.0 µg/m³, Ammonia = 400 µg/m³, 24 hours basis, Carbon mono oxide = 2 mg/m³, O₃ = 100 µg/m³, 8 hours basis, Benzene = 3 µg/m³, Benzopyrene = 1 µg/m³, Arsenic = 6 µg/m³, Nickel = 20 µg/m³, Annual basis, For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref : National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, INDICATIVE CONSULTANT INDIA

Debasish Halder

(Sr. Chemist)

Signature Authority

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

Note : 1. Sample is drawn by M/s. Indicative Consultant India

2. Sample submitted and identified by customer as: N.A.

3. Test results shown in this test report relate only to the sample (s) only

4. The test results referred in this report are based on observations & measurements under the stated environmental conditions

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6. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.

End of Report



(GOVT. REGISTERED TEST HOUSE)



EMAIL: indicativeconsultantindia@gmail.com/indicativeconsultantindia.kol@gmail.com

9001:2015

18001:2007

ISO/IEC 17025:2017
Certificate No.: TC-6139

TEST REPORT

Date: 15.01.2022	: Report No: ICI/HL/N/TC-006/2022	Format No: ICI/FM/H/68
Customer Name	: M/s. Ramco Industries Ltd.	
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative Name & Contact No.	: Mr. Taraknath Bose Mob. No. 70 63511804	
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	
Sample Description	: AMBIENT NOISE	
Sampling Method	: By Digital Noise Meter	
Test Method	: IS 9989:1981 (RA 2020)	
Monitoring Details:		
Height from the floor	: 1.5 M	Total Time (T) : 18 Min
Distance of Source	: 3.0 M	Difference (dt) : 2 Min

Noise Source/ Location: NEAR MAIN GATE						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-028	11.01.2022	10:00 AM	51.69	57.7	48.6	As per note

Noise Source/ Location: NEAR STOCK YARD						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-029	11.01.2022	10:25 AM	62.01	63.1	60.5	As per note

Noise Source/ Location: BACK SIDE OF THE PLANT						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-030	11.01.2022	10:50 AM	66.70	68.8	64.5	As per note

Noise Source/ Location: NEAR SCRAP YARD						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-031	11.01.2022	11:15 AM	52.29	53.8	50.9	As per note

*Note:

NOISE STANDARD

Area Code	Category of Area/ Zone	Limits dB (A) Leq	
		Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)
A	Industrial Area	75	70
B	Commercial Area	65	55
C	Residential Area	55	45
D	Silence Zone	50	40

Source: The Noise Pollution (Regulation & Control) Rules, 2000

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debasish Halder

(Sr. Chemist)

Signatory Authority

Test Witnessed By: Sampling was done in front of customer's representative

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
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 5. Noise data was recorded at the customer site in presence of customer's representative.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory



Page 1 of 1

End of Report

CENTRAL LABORATORY : HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, PIN-721602

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WEBSITE : www.indicativeconsultantindia.com

Towards Sustainable Growth

**TEST REPORT**

Date: 15.01.2022	:	Report No: ICI/HL/N/TC-007/2022	Format No: ICI/FM/H/14
Customer Name	:	M/s. Ramco Industries Ltd.	
Address	:	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative Name & Contact No.	:	Mr. Taraknath Bose Mob. No. 7063511804	
Work Order No.	:	KHG/POR/0025/21-22, Dtd. 07.04.2021	
Sample Description	:	WORKZONE NOISE	
Sampling Method	:	By Digital Noise Meter	
Test Method	:	IS 4758:1968 (RA 2017)	
Monitoring Details:			
Height from the floor	:	1.5 M	Total Time (T) : 18 Min
Distance of Source	:	3.0 M	Difference (dt) : 2 Min

Noise Source/ Location: NEAR BOD						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2022/N-032	11.01.2022	11:45 AM	81.38	82.6	79.9	As per note

Noise Source/ Location : NEAR SF DRUM						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2022/N-033	11.01.2022	12:10 PM	85.60	86.9	84.3	As per note

Noise Source/ Location: NEAR CORRUGATION BOX						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2022/N-034	11.01.2022	12:35 PM	86.71	88.1	85.1	As per note

Noise Source/ Location: STRIPPING SECTION						DAY TIME
Sample ID	Sampling Date	Sampling Time	Results dB(A)			Limit* dB(A)
			Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	
2022/N-035	11.01.2022	01:00 PM	87.30	88.4	86.1	As per note

***Note:**

OSHA's Permissible limit (PEL) is 90 dB (A) for all workers of an 8 Hour Day with 5 dB (A) exchange Rate
Indian Factory Act'1948 Permissible limit (PEL) is 90 dB (A) for all workers of an 8 Hour Day

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debasish Halder
(Sr. Chemist)
Signatory Authority

Test Witnessed By: Sampling was done in front of customer's representative
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions
 5. Noise data was recorded at the customer site in presence of customer's representative.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory

End of Report

Page 1 of 1

Page 1 of 1
 End of Report

- Note : 1. Sample is drawn by M/s. Indicative Consultant India
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 3. Test results shown in this test report relate only to the sample (s) only
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 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.

Test Witnessed By: Nil
 Estimated Uncertainty: Not Required



(Sr. Chemist)
 Signatory Authority

For, INDICATIVE CONSULTANT INDIA

Checked By: A. Patra

Prepared By: N. Mondal

**The Environment (Protection) Rules, 1986

Sl. No.	Parameters	Unit	Result	Schedule - VI: General Standards for Discharge of Environmental Pollutants Part A: Effluents**	Method Followed
1.	pH (at 19°C)	---	6.54	5.5-9.0	IS:3025 (Part-11):1983 : RA 2017, APHA 23 rd Edition 4500-H B
2.	Total Suspended Solid (TSS)	mg/L	42.0	100 mg/L (max)	200 mg/L (max)
3.	Chemical Oxygen Demand (COD)	mg/L	800.0	250 mg/L (max)	Not Specified
4.	Bio-Chemical Oxygen Demand (for 3 days at 27°C)	mg/L	520.0	30 mg/L (max)	100 mg/L (max)
5.	Oil and Grease	mg/L	3.8	10 mg/L (max)	10 mg/L (max)

Date: 19.01.2022	Report No: ICI/HLW/RN-060/2022	Format No: ICI/FM/H/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Haratara, P.S.- Kharagpur, Paschim Medinipur.	Sampling Date
Customer Representative	Mr. Tarakanath Bose	Sampling Time
Name & Contact Number	Mob. No. 70 63511804	Analysis Start Date
Letter Ref. No.	-	Analysis complete Date
Work Order No.	-	
Name of the Work	-	
Sample Description	EFFLUENT	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part I): 1987 (RA 2019), APHA 23 rd ed 2017	
Test Method	APHA 23 rd ed 2017, IS:3025 (Relevant Parts)	
Location	SEPTIC TANK OUTLET, CANTEN SIDE	

TEST REPORT



Sl. No.	Parameters	Unit	Result	Desirable Limit	Permissible limit in the absence of alternate source	Method Followed
ORGANOLEPTIC AND PHYSICAL PARAMETERS						
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):2018 APHA 23rd Edition 2150 B
3.	pH (at 19°C)	-	6.52	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983 : RA 2017 APHA 23rd Edition 4500-IF B
4.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4):1983 : RA 2017
5.	Conductivity	µS/cm	180.3	-	-	IS:3025(Part-14):1984 : RA 2019 APHA 23rd Edition 2510 B
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984 : RA 2017 APHA 23rd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	130.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984 : RA 2017 APHA 23rd Edition 2540 C
GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS						
8.	Total Hardness as CaCO ₃	mg/L	56.7	200 (Max)	600 (Max)	IS:3025(Part-21):2009 : RA 2019 APHA 23rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	43.1	-	-	APHA 23rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	13.6	-	-	APHA 23rd Edition 2340 C
11.	Calcium as Ca	mg/L	17.3	75 (Max)	200 (Max)	IS:3025(Part-40):1991 : RA 2014 APHA 23rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	3.3	30 (Max)	100 (Max)	IS:3025(Part-46):1994 : RA 2019 APHA 23rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	14.1	250 (Max)	1000 (Max)	IS:3025(Part-32):1988 : RA 2019 APHA 23rd Edition 4500Cl B
14.	Total Alkalinity as CaCO ₃	mg/L	37.1	200 (Max)	600 (Max)	IS:3025(Part-23):1986 : RA 2019 APHA 23rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	37.1	-	-	APHA 23rd Edition 2320B
17.	Iron as Fe	mg/L	0.10	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003 : RA 2019 APHA 23rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	29.2	200 (Max)	400 (Max)	IS:3025(Part-24):1986 : RA 2019 APHA 23rd Edition 4500 SO ₄ E

Date: 19.01.2022	Report No: ICI/HL/W/RN-061/2022	Format No: ICI/FM/H/67
Customer Name	M/S. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/W-061
Address	Devannaro, Ayma, P.O.-Hariara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 11.01.2022
Customer Representative	Mr. Tarakanth Bose	Sampling Time : 12:45 PM
Name & Contact Number	Mob. No. 70 63511804	Analysis Start Date : 12.01.2022
Letter Ref. No.	-	Analysis complete Date : 18.01.2022
Work Order No.	KHG/POR/0025/21-22, Did. 07.04.2021	
Name of the Work	-	
Sample Description	DRINKING WATER	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part I): 1987 (RA 2019), APHA 23rd ed 2017	
Test Method	APHA 23rd ed 2017, IS:3025	
Location	INSIDE THE PLANT	

TEST REPORT

- Note :**
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.

End of Report

Test Witnessed By: Nil
 Estimated Uncertainty: Not Required

Prepared By: M. K. Mondal

Checked By: A. Mitra

Debasmita Halder
 (Sr. Chemist)
 Signatory Authority



For, INDICATIVE CONSULTANT INDIA

Remarks:
 1) Chemical test parameters: **Compliance** – The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012
 2) Bacteriological test parameters: **Compliance** – The above mentioned test parameters are within desirable limit as per specification IS 10500:2012

Sl. No.	Parameters	Unit	Result	Desirable Limit	Permissible limit in the absence of alternate source	Method Followed
As Per IS:10500:2012						
PARAMETERS CONCERNING TOXIC SUBSTANCES						
23.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23rd Edition 3500As B
22.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23rd Edition 3111 B
21.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2019 APHA 23rd Edition 4500 FD
20.	Silica as SiO ₂	mg/L	22.4	-	-	IS:3025(Part-35):1988, RA 2019 APHA 23rd Edition 4500 SiO ₂ C
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23rd Edition 4500P D
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	Shall not be detectable in any 100 ml of sample	IS: 1622:1981 (RA 2019)
25.	E. Coli	CFU/100 ml	Absent	Shall not be detectable in any 100 ml of sample	Shall not be detectable in any 100 ml of sample	IS: 1622:1981 (RA 2019)
BACTERIOLOGICAL PARAMETERS						

Report No: ICI/HLW/RN-061/2022





(GOVT. REGISTERED TEST HOUSE)



EMAIL : indicativiconsultantindia@gmail.com / indicativiconsultantindia.kol@gmail.com

TEST REPORT

Date: 19.01.2022	Report No: ICI/HL/W/RN-062/2022	Format No: ICI/FM/H/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewannaro, Ayma, P.O.-Haritara, P.S.- Khuragpur, Paschim Medinipur.	Sampling Date
Customer Representative	Mt. Taraknath Bose	Sampling Time
Name & Contact Number	Mob. No. 70 63511804	Analysis Start Date
Letter Ref. No.	-	Analysis complete Date
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	
Name of the Work	-	
Sample Description	DRINKING WATER	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part I): 1987 (RA 2019), APHA 23 rd ed 2017	
Test Method	APHA 23 rd ed 2017, IS:3025	
Location	GUEST HOUSE	

Sl. No.	Parameters	Unit	Result	Desirable Limit	Permissible limit in the absence of alternate source	Method Followed
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ORGANOLEPTIC AND PHYSICAL PARAMETERS

1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
3.	pH (at 19°C)	-	6.54	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983 : RA 2017. APHA 23 rd Edition 4500-H B
4.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4): 1983: RA 2017
5.	Conductivity	µS/cm	184.4	-	-	APHA 23 rd Edition 2510 B IS:3025(Part-14):1984: RA 2019
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	APHA 23 rd Edition 2130 B IS:3025(Part-10):1984: RA 2017
7.	Total Dissolved Solid (TDS)	mg/L	134.0	500 (Max)	2000 (Max)	APHA 23 rd Edition 2540 C IS:3025(Part-16):1984: RA 2017

GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS

8.	Total Hardness as CaCO ₃	mg/L	60.9	200 (Max)	600 (Max)	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	46.2	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	14.7	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	18.5	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	3.6	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	15.2	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2019 APHA 23 rd Edition 4500Cl B
14.	Total Alkalinity as CaCO ₃	mg/L	37.1	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	37.1	-	-	APHA 23 rd Edition 2320B
17.	Iron as Fe	mg/L	0.08	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	31.4	200 (Max)	400 (Max)	APHA 23 rd Edition 4500 SO ₄ E IS:3025(Part-24):1986: RA 2019



Page: 1 of 2

CENTRAL LABORATORY : HPL Link Road, Basudevpur, Khanjanachak, Haldia, Purba Medinipur, Pin- 721602
KOLKATA LABORATORY : B1-1/2/21-2, Santoshpur(M), Block-B, Maheshala, Kolkata-700142, Mob. : 7797245819, 7797506970
WEBSITE : www.indicativeconsultantindia.com



Report No: ICI/HL/W/RN-062/2022

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Silica as SiO ₂	mg/L	21.5	-	-	IS:3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
21.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2019 APHA 23 rd Edition 4500 FD
22.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
PARAMETERS CONCERNING TOXIC SUBSTANCES						
23.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
BACTERIOLOGICAL PARAMETERS						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	E. Coli	CFU/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks:1) Chemical test parameters: **Compliance** – The above mentioned test parameters are within the desirable limit as per specification IS 10500:20122) Bacteriological test parameters: **Compliance** – The above mentioned test parameters are within desirable limit as per specification IS 10500:2012

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Mitra

Debasish Mondal
(Sr. Chemist)
Signatory AuthorityTest Witnessed By: Nil
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
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Page 2 of 2

-----End of Report-----



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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/28/Feb./A/1	Report No.	: ENV/28/Feb./TR(A)/1/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

StackAttached to	:	Cement & Fly Ash Feeding Section			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	15.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.40
Capacity	:	10 Ton/hr. (Running Load – 06 Ton/hr.)	Height of sampling port (mtr.) (from G.L.)	:	8.4
Emission Due to	:	Process Activity (Feeding of Raw Materials)			
Fuel Used	:	N.A.	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Nil			
Pollution Control Device	:	Bag Filter			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 30.0
2.	Barometric Pressure	mm of Hg.	--	: 760.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 8.98
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3991.82
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.76

Remarks :

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Approved By :

Dr. Sumit Choudhury

Dr. SUMIT CHOUDHURY
Technical Manager

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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/28/Feb./A/II	Report No.	: ENV/28/Feb./TR(A)/II/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

StackAttached to	:	Edge Runner Mill BOD (Bag Open Device & Slurry Mixing)			
Shape of Stack	:	Circular	Height of Stack (mtr.) (from G. L.)	:	15.0
Materials of Construction	:	M.S.	Stack I.D. at sampling point (mtr.)	:	0.30
Capacity	:	03 Ton/hr. (Running ~ 03 Ton/hr.)	Height of sampling port (mtr.) (from G.L.)	:	8.4
Emission Due to	:	Process Activity			
Fuel Used	:	N.A.	Permanent Platform & Ladder	:	Yes
Working Fuel Consumption	:	Nil			
Pollution Control Device	:	Bag Filter and Wet Scrubber			

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 29.0
2.	Barometric Pressure	mm of Hg.	--	: 760.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 15.48
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3831.09
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.67

Remarks :

Reviewed By :

Indrani Bhattacharya

Approved By :

Dr. Sumit Chowdhury

Dr. SUMIT CHOWDHURY
Technical ManagerINDRANI BHATTACHARYA
By Technical Manager, Chemical



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TEST REPORT

FORMAT NO.: ENV/FM/38

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/28/Feb./A/III	Report No.	: ENV/28/Feb./TR(A)/III/21-22

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: Pulverizer Section (No.1)	Height of Stack (mtr.) (from G. L.)	: 15.0
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.254
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: --
Capacity	: 02 Ton/hr. (Running - 02 Ton/hr.)		
Emission Due to	: Process Activity (Pulverizing of Waste Sheet & Materials)		
Fuel Used	: N.A.	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: Nil		
Pollution Control Device	: Bag Filter		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 38.0
2.	Barometric Pressure	mm of Hg.	..	: 760.0
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 18.83
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 3284.14
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.85

Remarks :

Reviewed By :

Indrani Bhattacharya

Approved By :

Dr. SUMATRA BHATTACHARYA

INDRANI BHATTACHARYA
Dy. Technical Manager, ChemicalDr. SUMATRA BHATTACHARYA
Technical Manager

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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 11.02.2022 - 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/28/Feb./A/IV	Report No.	: ENV/28/Feb./TR(A)/IV/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Main Gate
2. Duration of Sampling : 24 hrs. (09:00 a.m. - 09:00 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature ($^{\circ}\text{C}$) : 19.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 760.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	USEPA 1997a, 40 CFR Part 50, Appendix L	56.69
2.	Concentration of PM_{10}	$\mu\text{g}/\text{m}^3$	IS 5182 (PART 23) : 2006	89.15
3.	Concentration of SO_2	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	11.52
4.	Concentration of NO_2	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	32.93
5.	Concentration of CO	mg/m^3	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.42
6.	Concentration of Pb	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m^3	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C_6H_6)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-IX) : 1974	25.0
10.	Ammonia (NH_3)	$\mu\text{g}/\text{m}^3$	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m^3	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m^3	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Indrani Bhattacharya

Approved By :

Dr. Sumit Bhattacharya

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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 11.02.2022 - 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/28/Feb./A/V	Report No.	: ENV/28/Feb./TR(A)/V/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Stock Yard
2. Duration of Sampling : 24 hrs. (09:30 a.m. - 09:30 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 19.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 760.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	53.75
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	84.13
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	9.17
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	31.52
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.32
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	20.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Approved By :

Indrani Bhattacharya

Dr. Sumit Bhattacharya

INDRANI BHATTACHARYA
By: Indrani Bhattacharya, Chemical

Dr. SUMIT BHATTACHARYA
Technical Manager



ENVIROCHECK

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TEST REPORT

FORMAT NO.: ENV/FM/37

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 11.02.2022 - 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/28/Feb./A/VI	Report No.	: ENV/28/Feb./TR(A)/VI/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Near Scrap Yard
2. Duration of Sampling : 24 hrs. (10:00 a.m. - 10:00 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 19.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 760.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	55.90
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	93.51
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	8.53
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	29.95
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005: Sec. 11 (Vol. 11.07) : 2011	0.36
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12): 2004 & ASTM D 6209-98 reapproved 2004: Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	18.50
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Approved By :

Indrani Bhattacharya

[Signature]

Dr. SUNIL K. CHATURVEDI
By: [Signature] Dr. Sunil K. Chaturvedi, ChemicalDr. SUNIL K. CHATURVEDI
Technical Manager



ENVIROCHECK

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TEST REPORT

FORMAT NO.: ENV/FM/32

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 11.02.2022 - 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 16.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/28/Feb./A/VII	Report No.	: ENV/28/Feb./TR(A)/VII/21-22

A) GENERAL INFORMATION

1. Location of Sampling : Back Side of the Plant
2. Duration of Sampling : 24 hrs. (10:30 a.m. - 10:30 a.m.)

B) METEOROLOGICAL INFORMATION

1. Average Temperature (°C) : 19.0
2. Average Relative Humidity (%) : 62.0
3. Barometric Pressure (mm of Hg) : 760.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	51.64
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	87.16
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2001 & ASTM D 2914-01 reapproved 2007: Sec. 11 (Vol. 11.07) : 2011	7.25
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2006 & ASTM D 1607-91 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	28.54
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10): 1999 reaffirmed 2005 & ASTM D 3162-94 reapproved 2005 : Sec. 11 (Vol. 11.07) : 2011	0.28
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2004 & ASTM D 6209-98 reapproved 2004 : Sec. 11 (Vol. 11.07) : 2011	<0.36
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2006 & ASTM D 5466-01 reapproved 2007 : Sec. 11 (Vol. 11.07) : 2011	<0.74
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	15.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01

Remarks :

Reviewed By :

Indrani Bhattacharya

Approved By :

Dr. Subir Chatterjee

INDRANI BHATTACHARYA
By: Technical Manager, Chemical

Dr. SUBIR CHATTERJEE
Technical Manager



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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 ~ 17.02.2022
		Date of Issue	: 19.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Quality Control Lab	ULR No.	: TC601422000000026F

PARAMETERS		METHOD	UNIT	RESULTS	LIMIT (IS 10500 : 2012)	
					Acceptable	Permissible
1.	Colour	IS 3025 (Part 4): 1983, RA 2012	Hazen	<1.0	5.0	15.0
2.	Odour	IS 3025 (Part 5): 1983, RA 2012	--	Odourless	Agreeable	Agreeable
3.	pH	IS 3025 (Part 11): 1984, RA 2012	--	6.92	6.5-8.5	No Relaxation
4.	Taste	IS 3025 (Part 7 and 8): 1983, RA 2012	--	Acceptable	Agreeable	Agreeable
5.	Turbidity	IS 3025 (Part 10): 1984, RA 2012	NTU	<1.0	1.0	5.0
6.	Total Dissolved Solids	IS 3025 (Part 16): 1984, RA 2014	mg./l	118.0	500.0	2000.0
7.	Aluminium	IS 15302: 2003, RA 2014	mg./l	<0.02	0.03	0.2
8.	Calcium	IS 3025 (Part 40): 1991, RA 2014	mg./l	11.2	75.0	200.0
9.	Chloride	IS 3025 (Part 32): 1988, RA 2014	mg./l	12.0	250.0	1000.0
10.	Iron	IS 3025 (Part 53): 2003, RA 2014	mg./l	0.10	1.0*	No Relaxation
11.	Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg./l	4.8	30.0	100.0
12.	Manganese	IS 3025 (Part 59): 2006, RA 2012	mg./l	<0.05	0.1	0.3
13.	Nitrate	IS 3025 (Part 34): 1988, RA 2014	mg./l	3.20	45.0	No Relaxation
14.	Sulphate	IS 3025 (Part 24): 1986, RA 2014	mg./l	16.50	200.0	400.0
15.	Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg./l	36.0	200.0	600.0
16.	Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg./l	48.0	200.0	600.0
17.	Zinc	IS 3025 (Part 49): 1994, RA 2014	mg./l	0.15	5.0	15.0
18.	Mercury	IS 3025 (Part 48): 1994, RA 2009	mg./l	<0.001	0.001	No Relaxation
19.	Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg./l	<0.01	0.01	No Relaxation*
20.	Chromium	IS 3025 (Part 52): 2003, RA 2014	mg./l	<0.02	N.A.	N.A.
21.	Silica	APHA 23 rd Ed., 4500 SiO ₂ -C/F : 2017	mg./l	2.50	N.A.	N.A.

Remarks: a) Result shows that all parameters are within limit as per IS : 10500 - 2012.

b) N.A. means Not Available.

c) The (*) marked limit are as per IS:10500-2012 - Drinking Water Specification, Amendment No.1, June'2015.

Reviewed By:

Indrani Bhattacharya

Approved By:

Dr. Sumit Choudhury

INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Dr. SUMIT CHOUDHURY
Technical Manager

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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 19.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Quality Control Lab	ULR No.	: TC601422000000026F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT as per IS 10500:2012
1. Total Coliform	9222B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample

Remarks : a) Result shows that all parameters are within limit as per IS 10500 : 2012. (<1.0 Indicates "Absent" No Colony Developed i.e. No Coliform Found).
b) CFU indicates Colony Forming Unit.

Reviewed By :

Approved By :

DURGA K. MAHABORTY

Priyanka Mukherjee

Dy. Quality Manager

PRIYANKA MUKHERJEE
Technical Manager, Microbiology

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FORMAT NO. ENV/FM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 - 17.02.2022
		Date of Issue	: 19.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Guest House	ULR No.	: TC601422000000027F

PARAMETERS		METHOD	UNIT	RESULTS	LIMIT (IS 10500:2012)	
					Acceptable	Permissible
1.	Colour	IS 3025 (Part 4): 1983, RA 2012	Hazen	<1.0	5.0	15.0
2.	Odour	IS 3025 (Part 5): 1983, RA 2012	--	Odourless	Agreeable	Agreeable
3.	pH	IS 3025 (Part 11): 1984, RA 2012	--	6.97	6.5-8.5	No Relaxation
4.	Taste	IS 3025 (Part 7 and 8): 1983, RA 2012	--	Acceptable	Agreeable	Agreeable
5.	Turbidity	IS 3025 (Part 10): 1984, RA 2012	NTU	<1.0	1.0	5.0
6.	Total Dissolved Solids	IS 3025 (Part 16): 1984, RA 2014	mg./l	158.0	500.0	2000.0
7.	Aluminium	IS 15302: 2003, RA 2014	mg./l	<0.02	0.03	0.2
8.	Calcium	IS 3025 (Part 40): 1991, RA 2014	mg./l	19.2	75.0	200.0
9.	Chloride	IS 3025 (Part 32): 1988, RA 2014	mg./l	13.0	250.0	1000.0
10.	Iron	IS 3025 (Part 53): 2003, RA 2014	mg./l	0.10	1.0*	No Relaxation
11.	Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg./l	7.68	30.0	100.0
12.	Manganese	IS 3025 (Part 59): 2006, RA 2012	mg./l	<0.05	0.1	0.3
13.	Nitrate	IS 3025 (Part 34): 1988, RA 2014	mg./l	2.80	45.0	No Relaxation
14.	Sulphate	IS 3025 (Part 24): 1986, RA 2014	mg./l	16.20	200.0	400.0
15.	Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg./l	84.0	200.0	600.0
16.	Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg./l	80.0	200.0	600.0
17.	Zinc	IS 3025 (Part 49): 1994, RA 2014	mg./l	0.20	5.0	15.0
18.	Mercury	IS 3025 (Part 48): 1994, RA 2009	mg./l	<0.001	0.001	No Relaxation
19.	Arsenic	IS 3025 (Part 37): 1988, RA 2014	mg./l	<0.01	0.01	No Relaxation*
20.	Chromium	IS 3025 (Part 52): 2003, RA 2014	mg./l	<0.02	N.A.	N.A.
21.	Silica	APHA 23 rd Ed., 4500 SiO ₂ -C/F: 2017	mg./l	1.68	N.A.	N.A.

Remarks: a) Result shows that all parameters are within limit as per IS: 10500 - 2012.

b) N.A. means Not Available.

c) The (*) marked limit are as per IS:10500-2012 - Drinking Water Specification, Amendment No.1, June'2015.

Reviewed By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Lv. Technical Manager, Chemical

Approved By:

Dr. SUMIT BHANDHURY

Dr. SUMIT BHANDHURY
Tech. Manager

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FORMAT NO. ENV/EM/55

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 12.02.2022
		Period of Analysis	: 12.02.2022 - 14.02.2022
		Date of Issue	: 19.02.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Location	: Tap of Guest House	ULR No.	: TC601422000000027F

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT as per IS 10500:2012
1. Total Coliform	9222B, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample
2. E. Coli	9222 I, APHA 23 rd Ed., 2017	CFU/100 ml.	<1.0	Shall not be detectable in any 100 ml sample

Remarks : a) Result shows that all parameters are within limit as per IS 10500 : 2012. (<1.0 indicates "Absent" No Colony Developed i.e. No Coliform Found).
b) CFU indicates Colony Forming Unit.

Reviewed By :

Dr. Quality Manager

Approved By :

PRIYANKA MUKHERJEE
Technical Manager, Microbiology

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FORMAT NO. - ENV/TA/66

TEST REPORT

1.	Name of the Industry	: Ramco Industries Limited
2.	Address	: Village-Dewanmaro Ayma, P.O. - Hariatara, P.S. - Kharagpur. District - Pachim Medinipur, Pin- 721301.
3.	Type of Industry	: Asbestos Cement Corrugated & Accessories Manufacturing Unit
4.	Sampling Plan & Procedure	: ENV/SOP/01
5.	Deviation from the Sampling Method & Plan	: No
6.	Type of Sample	: Noise
7.	Sample ID	: ENV/01/Feb./N
8.	Report ID	: ENV/01/Feb./TR(N)/21-22
9.	Date of Study	: 11/02/2022
10.	Reporting Date	: 16/02/2022
11.	Method No.	: IS: 9989 - 1981
12.	Duration of Noise	: 20 Minutes
13.	Height from Ground Level	: 4 feet
14.	Sample Monitoring By	: Mr. Pappu Hazra

RESULT OF NOISE LEVEL STUDY

DAY TIME				
1.	Location of Study	: Near Main Gate		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	09:00 - 09:20	52.0	55.7	54.23
NIGHT TIME				
2.	Location of Study	: Near Main Gate		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:00 - 10:20	49.1	51.8	50.66
DAY TIME				
3.	Location of Study	: Near Stock Yard		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	09:30 - 09:50	59.3	64.1	62.33
NIGHT TIME				
4.	Location of Study	: Near Stock Yard		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:30 - 10:50	51.5	56.1	54.38
DAY TIME				
5.	Location of Study	: Near Scrap Yard		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	10:00 - 10:20	64.1	69.3	67.44
NIGHT TIME				
6.	Location of Study	: Near Scrap Yard		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	11:00 - 11:20	49.5	55.2	53.22
DAY TIME				
7.	Location of Study	: Back Side of the Plant		
	Time (A.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	11:30 - 11:50	63.9	69.4	67.47
NIGHT TIME				
8.	Location of Study	: Back Side of the Plant		
	Time (P.M)	Minimum dB(A)	Maximum dB(A)	Leq dB(A)
	11:30 - 11:50	62.7	65.8	64.52

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** Mean of L_{eq} - Equivalent to Sound Energy		
Limit in L_{eq} dB(A)		
Category Area	Day Time dB(A)	Night Time dB(A)
A. Industrial Area	75	70
B. Commercial Area	65	55
C. Residential Area	55	45
D. Silence Zone	50	40
**Day Time is reckoned in between 6:00 A.M. & 10:00 P.M.		**Night Time is reckoned in between 10:00 P.M. & 6:00 A.M.
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)		
(Central Pollution Control Board, Ministry of Environment & Forests Government of India) & (Department of Environment, Government of West Bengal)		
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS		
Hours	Limit in dB(A)	
8	90	
4	93	
2	96	
1	99	
1/2	102	
1/4	105	
1/8	108	
1/16	111	
1/32	114	
(2 minutes or less)	-	

Reviewed By:

Indra Nishu Chakraborty

INDRA NISHU CHAKRABORTY
Dy. Technical Manager, Chemical

Approved By:

Dr. Sumit Chowdhury

Dr. SUMIT CHOWDHURY
Technical Manager

>End of Report<

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(GOVT. REGISTERED TEST HOUSE)



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TEST REPORT

Date: 10.03.2022	: Report No: ICI/HL/A/RN-173/2022	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/AC-173
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 02.03.2022 to 03.03.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 04.03.2022
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 09.03.2022
Sample Description	: AMBIENT AIR	
Location	: BACK SIDE OF THE PLANT	
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	: CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	: 27.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
09:30 AM to 05:30 PM	90.34	31.78	16.68	36.61	BDL	BDL	BDL	40.9	0.2642	BDL	BDL	BDL
05:45 PM to 01:45 AM	96.32	35.76	22.94	43.27	BDL	BDL	BDL	-	0.3112	BDL	BDL	BDL
02:00 AM to 10:00 AM	87.68	32.22	18.77	39.11	BDL	BDL	BDL	-	0.3375	BDL	BDL	BDL
24 Hours Average	91.45	33.25	19.46	39.66	BDL	BDL	BDL	40.9	0.3043	BDL	BDL	BDL

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$ 8hours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November '2009

For. INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halder

(Sr. Chemist)

Signature Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions
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End of Report

CENTRAL LABORATORY : HPL Link Road, Basudevapur, Khanjanchak, Haldia, Purba Medinipur, Pin- 721602

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KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur(M), Block-B, MaheshTala, Kolkata-700142, Mob. : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com



TEST REPORT

Date: 07.03.2022	Report No: ICI/HL/A/PTC-201/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Harialara, P.S.-Kharanpur, PaschimMedinipur.	Sampling Date
Customer Representative	Mr. Tarakanath Bose	Sampling Time
Name & Contact Number	Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date
Sample Description	STACK AIR	
Location	PULVERIZER SECTION	
Sample Condition	In Glass Microfibre Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	

A.J. GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	Stack attached to	PULVERIZER SECTION
Emission due to	Process Activity	
Fuel Used		
Rated Fuel Consumption		
Working Fuel Consumption		
Calorific Value(Kcal/kg)		
Sulphur Content (% by Wt)		
Ash Content (% by Wt)		
Pollution Control Device	Bag Filter	
Whether Stack is provided with permanent Platform / Ladder : Yes		

B.J. PHYSICAL DATA:

Flue Gas Temperature (°C)	36	Steam Generation Capacity :
Barometric Pressure(mm Hg)	756	a) Rated
Velocity of Gas flow (m/s)	8.59	b) Running
Quantity of Gas flow (Nm ³ /hr)	1505.98	Load : a) Rated
Pressure		b) Running

C.J. RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm ³)	1.4	IS 11255 (Part -1): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-	
03.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	CO ₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

For, INDICATIVE CONSULTANT INDIA

Debasish Halder
(Sr. Chemist)
Signatory Authority

Checked By: A. Patra

Prepared By: N. Mondal

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

Note :

- Sample is drawn by M/s. Indicative Consultant India
- Sample submitted and identified by customer as: N/A
- Test results shown in this test report relate only to the sample (s) only
- The test results referred in test report are based on observations & measurements under the stated environmental conditions
- The reproduction of the report except in full is invalid without written approval of the laboratory
- Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-105 from the date of issue unless otherwise specified
- All general information's of stack are provided by the party.

End of Report

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TEST REPORT

Report No: IC/HL/A/PTC-198/2022	Format No: IC/IF/M/H/S8
Customer Name	M/S. RAMCO INDUSTRIES LTD.
Address	Devanmaro, Aynia, P.O., Haritala, P.S.-Kharagpur, Paschim Medinipur.
Customer Representative	Mt. Taraknath Bose
Name & Contact Number	Mob. No. 70 635 11804
Work Order No.	KHC/PO/0025/21-22, Dtd. 07.04.2021
Sample Description	STACK AIR
Location	EDGE RUNNER MILL BOD & SLURRY MIXING
Sample Condition	In Glass Microfibre Thimble
Sampling Method	CPCB, Emission Regulation (Part III)

A. GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	EDGE RUNNER MILL
Stack attached to	BOD & SLURRY MIXING
Emission due to	Process Activity
Fuel Used	-
Rated Fuel Consumption	-
Working Fuel Consumption	-
Calorific Value (Kcal/kg)	-
Sulphur Content (% by Wt)	-
Ash Content (% by Wt)	-
Pollution Control Device	Bag Filter & Wet Scrubber
Whether Stack is provided with permanent Platform / Ladder : Yes	-
Shape of Stack	Circular
Material of Construction	M.S.
Stack ID at sampling point (M)	0.30
At Bottom (M)	-
At Top (M)	0.30
Height Details :	-
a) Total Ht. Of stack from GL(M)	15.0
b) Total Ht. Of stack from RL(M)	-
c) Ht. of sampling port from GL(M)	8.4
d) Ht. of port from disturbance zone (M)	-

B. PHYSICAL DATA:

Flue Gas Temperature (°C)	35
Barometric Pressure (mm Hg)	756
Velocity of Gas flow (m/s)	7.83
Quantity of Gas flow (Nm ³ /hr)	1919.43
Pressure	-
Load :	-
a) Rated	-
b) Running	-
Steam Generation Capacity :	-
1 Ton/Hr.	-

C. RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm ³)	1.6	IS 11255 (Part-1): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-	IS 13270:1992 (RA 2019)
03.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	CO ₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

Prepared By: N. Mandal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debashis Halder

(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

Note :

- Sample is drawn by M/s. Indicative Consultant India
- Sample submitted and identified by customer as N.A
- Test results shown in this test report relate only to the sample (s) only
- The test results referred in test report are based on observations & measurements under the stated environmental conditions.
- The reproduction of the report except in full is invalid without written approval of the laboratory
- Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-10 from the date of issue unless otherwise specified.
- All general information's of stack are provided by the party

End of Report

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CENTRAL LABORATORY :

KOLKATA LABORATORY :

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(GOVT. REGISTERED TEST HOUSE)



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TEST REPORT

Date: 07.03.2022	Report No: ICI/HL/A/PTC-199/2022	Format No: ICI/FM/H/58
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-199
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 02.03.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time : 12:20 PM
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis Start Date : 04.03.2022
Sample Description	: STACK AIR	Analysis complete Date : 05.03.2022
Location	: CEMENT & FLY ASH FEEDING SECTION	
Sample Condition	: In Glass Microfiber Thimble	
Sampling Method	: CPCB, Emission Regulation (Part III)	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant		Shape of Stack	: Circular
Stack attached to	: CEMENT & FLY ASH FEEDING SECTION	Material of Construction	: M.S
Emission due to	: Feeding of Raw Material	Stack ID at sampling point (M)	: 0.40
Fuel Used	: -	At Bottom (M)	: -
Rated Fuel Consumption	: -	At Top (M)	: 0.40
Working Fuel Consumption	: -	Height Details :	
Calorific Value(Kcal/kg)	: -	a) Total Ht. Of stack from GL(M)	: 15.0
Sulphur Content (% by Wt)	: -	b) Total Ht. Of stack from RL(M)	: -
Ash Content (% by Wt.)	: -	c) Ht. of sampling port from GL(M)	: 8.4
Pollution Control Device	: Bag Filter	d) Ht. of port from disturbance zone (M)	: -
Whether Stack is provided with permanent Platform / Ladder	: Yes		

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	: 36	Steam Generation Capacity :	
Barometric Pressure.(mm Hg)	: 756	a) Rated	: -
Velocity of Gas flow (m/s)	: 8.10	b) Running	: -
Quantity of Gas flow (Nm ³ /hr)	: 3518.37	Load : a) Rated	: -
Pressure	: -	b) Running	: 10 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm ³)	: 1.8	IS 11255 (Part -1): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	: -	
03.	CO % (V/V)	: <0.2	IS 13270:1992 (RA 2019)
04.	CO ₂ % (V/V)	: <0.2	IS 13270:1992 (RA 2019)

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debasish Chatterjee
(Sr. Chemist)
Signatory Authority

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s Indicative Consultant India
 2. Sample submitted and identified by customer as: N A
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-104 from the date of issue unless otherwise specified.
 7. All general information's of stack are provided by the party.



End of Report

Page 1 of 1

TEST REPORT

Date: 07.03.2022	Report No: ICI/HL/A/PTC-200/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewannaro, Ayma, P.O.-Haratara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date
Customer Representative	Mr. Tarakanth Bose	Sampling Time
Name & Contact Number	Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Did. 07.04.2021	Analysis complete Date
Sample Description	STACK AIR	
Location	D.G. SET (725 KVA)	
Sample Condition	In Glass Microfiber Thimble & Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)	

A. GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	D.G. SET (725 KVA)	Material of Construction	M.S	Shape of Stack	Circular
Stack attached to	Emission due to	Combustion of H.S.D.	Stack ID at sampling point (M)	0.20	
Fuel Used	H.S.D.	At Bottom (M)	0.20		
Rated Fuel Consumption	145 Ltr/Hr.	At Top (M)	0.20		
Working Fuel Consumption	145 Ltr/Hr.				
Calorific Value(Kcal/kg)	-				
Sulphur Content (% by Wt)	-				
Ash Content (% by Wt)	-				
Pollution Control Device	Nil				
Whether Stack is provided with permanent Platform / Ladder : Yes					

B. PHYSICAL DATA:

Flue Gas Temperature (°C)	179	Steam Generation Capacity :	
Barometric Pressure (mm Hg)	756	a) Rated	-
Velocity of Gas flow (m/s)	13.88	b) Running	725 KVA
Quantity of Gas flow (Nm ³ /hr)	1030.97	Load :	
Pressure	-	a) Rated	725 KVA
		b) Running	725 KVA

C. RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm ³)	58.0	IS 11255 (Part -1): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-	IS 11255 (Part -2): 1985 (RA 2019)
03.	Sulphur di-oxide (mg/Nm ³)	208.20	IS 11255 (Part -2): 1985 (RA 2019)
04.	NOx (mg/m ³)	161.15	IS 11255 (Part -7): 2005 (RA 2017)
05.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
06.	CO ₂ % (V/V)	6.8	IS 13270:1992 (RA 2019)

For INDICATIVE CONSULTANT INDIA

Checked By: A. Parra

Prepared By: N. Mondal

Deputy Manager

(S. Chatterjee)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

Sample is drawn by M/s. Indicative Consultant India

Sample submitted and identified by customer as N.A

Test results shown in this report relate only to the sample (s) only

The test results referred in test report are based on observations & measurements under the stated environmental conditions.

The reproduction of the report except in full is invalid without written approval of the laboratory

Retention period of tested samples (Thimbles) is 180 days & thimbles no T-106 from the date of issue unless otherwise specified

All general information's of stack are provided by the party

End of Report

Page 1 of 1

CENTRAL LABORATORY

KOLKATA LABORATORY

WEBSITE

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TEST REPORT

Date: 10.03.2022	Report No: ICI/HL/A/RN-171/2022	Format No: ICI/FM/H/61
Customer Name	M/s: RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Haratara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date
Customer Representative Name & Contact Number	Mr. Tarakanth Bose Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date
Sample Description	AMBIENT AIR	
Location	NEAR MAIN GATE	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Test Method	CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2); 2001 (RA 2017), IS: 5182 (Part - 6); 2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Ambient Temperature in °C (Average)	26.0	

Time of Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	NI
09:00 AM to 05:00 PM	80.46	28.05	18.77	39.11	BDL	BDL	BDL	40.5	0.2511	BDL	BDL	BDL
05:15 PM to 01:15 AM	92.67	34.66	22.94	44.93	BDL	BDL	BDL	-	0.2975	BDL	BDL	BDL
01:45 AM to 09:45 AM	84.24	31.21	19.81	39.94	BDL	BDL	BDL	-	0.3342	BDL	BDL	BDL
24 Hours Average	85.79	31.31	20.51	41.33	BDL	BDL	BDL	40.5	0.2943	BDL	BDL	BDL

Limit (µg / m³) Ambient Air Quality standard (National)

PM₁₀ = 100 µg/m³, PM_{2.5} = 60 µg/m³, SO₂ = 80 µg/m³, NO₂ = 80 µg/m³, Lead = 1.0 µg/m³, Ammonia = 400 µg/m³, 24 hours basis, Carbon mono oxide = 2 mg/m³, O₃ = 100 µg/m³, 8 hours basis, Benzene = 5 µg/m³, Benzopyrene = 1 ng/m³, Arsenic = 6 ng/m³, Nickel = 20 ng/m³, Annual basis, For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 15th November 2009

For, INDICATIVE CONSULTANT INDIA

Debasish Halder

(Sr. Engineer)

Signatory Authority

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

Sample is drawn by M/s. Indicative Consultant India

Sample submitted and identified by customer as: N.A.

Test results shown in this test report relate only to the sample (s) only

The reproduction of the report except in full is invalid without written approval of the laboratory

Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified

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CENTRAL LABORATORY

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TEST REPORT

Date: 10.03.2022	Report No: ICI/HL/A/RN-172/2022	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Deewanaro, Ayma, P.O.-Harialara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date
Customer Representative Name & Contact Number	Mr. Tarakath Bose Mob. No. 70 63511804	Analysis Start Date
Work Order No.	KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date
Sample Description	AMBIENT AIR	
Location	NEAR STOCK YARD	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Test Method	CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Ambient Temperature in °C (Average)	27.0	

Time of Sampling	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
09:15 AM to 05:15 PM	84.23	30.34	17.72	38.28	BDL	BDL	BDL	39.7	0.2645	BDL	BDL	BDL
05:30 PM to 01:30 AM	95.73	37.22	23.98	42.44	BDL	BDL	BDL	-	0.3005	BDL	BDL	BDL
01:45 AM to 09:45 AM	89.47	31.65	19.84	39.11	BDL	BDL	BDL	-	0.3472	BDL	BDL	BDL
24 Hours Average	89.81	33.07	20.51	39.94	BDL	BDL	BDL	39.7	0.3041	BDL	BDL	BDL

Limit: (µg / m³) Ambient Air Quality standard (National)PM₁₀ = 100 µg/m³, PM_{2.5} = 60 µg/m³, SO₂ = 80 µg/m³, NO₂ = 80 µg/m³, Lead = 1.0 µg/m³, Ammonia = 40 µg/m³, 24 hours basis, Carbon mono oxide = 2 mg/m³, O₃ = 100 µg/m³, 8 hours basis, Benzene = 5 µg/m³, Benzo(a)pyrene = 1 µg/m³, Arsenic = 6 µg/m³, Nickel = 20 µg/m³, Annual basis, For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive AreaRef: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

For, INDICATIVE CONSULTANT INDIA

Debasmita Halder
(Sr. Chemist)

Signature of Analyst

Prepared By: M. Mondal

Checked By: A. Parua

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

Sample is drawn by M/s. Indicative Consultant India

2. Sample submitted and identified by customer as: N.A.

3. Test results shown in this report relate only to the sample (s) only

4. The test results referred in test report are based on observations & measurements under the stated environmental conditions

5. The reproduction of the report except in full is invalid without written approval of the laboratory

6. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.

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TEST REPORT

Date: 10.03.2022	: Report No: ICI/HL/A/RN-174/2022	Format No: ICI/FM/H/61
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/AC-174
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, PaschimMedinipur.	Sampling Date : 02.03.2022 to 03.03.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Analysis Start Date : 04.03.2022
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 09.03.2022
Sample Description	: AMBIENT AIR	
Location	: NEAR SCRAP YARD	
Sample Condition	: In Glass Microfibre Filter Paper & Plastic Bottle, Suction of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	: CPCB, Emission Regulation (Part III)/ UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Method	: CPCB, Emission Regulation (Part III), IS: 5182 (Part - 23) 2006 (RA 2017), USEPA CFR 40(Part- 50): Appendix L, IS: 5182 (Part - 2):2001 (RA 2017), IS: 5182 (Part - 6):2006 (RA 2017), Non-Dispersive Infrared Spectrometry Method, Soxhlet Extraction and GC analysis, Atomic Absorption Spectrophotometric Method, Indophenol Blue Method, UV Photometric Method / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Ambient Temperature in °C (Average)	: 27.0	

Time of Sampling	Concentration ($\mu\text{g} / \text{m}^3$)								Concentration (mg / m^3)	Concentration (ng / m^3)		
	PM ₁₀	PM _{2.5}	SO ₂	NO ₂	Pb	Benzene	NH ₃	O ₃	CO	Benzo(a) Pyrene	As	Ni
09:45 AM to 05:45 PM	85.13	33.29	17.72	37.45	BDL	BDL	BDL	40.1	0.2721	BDL	BDL	BDL
06:00 PM to 02:00 AM	92.67	39.31	23.98	45.77	BDL	BDL	BDL	-	0.3014	BDL	BDL	BDL
02:30 AM to 10:30 AM	89.49	33.89	19.81	39.11	BDL	BDL	BDL	-	0.3295	BDL	BDL	BDL
24 Hours Average	89.10	35.50	20.50	40.78	BDL	BDL	BDL	40.1	0.3010	BDL	BDL	BDL

Limit: ($\mu\text{g} / \text{m}^3$) Ambient Air Quality standard (National)

PM₁₀= 100 $\mu\text{g}/\text{m}^3$, PM_{2.5}=60 $\mu\text{g}/\text{m}^3$, SO₂=80 $\mu\text{g}/\text{m}^3$, NO₂=80 $\mu\text{g}/\text{m}^3$, Lead=1.0 $\mu\text{g}/\text{m}^3$, Ammonia=400 $\mu\text{g}/\text{m}^3$, 24 hours basis, Carbon mono oxide=2 mg/m^3 , O₃=100 $\mu\text{g}/\text{m}^3$ Shours basis, Benzene=5 $\mu\text{g}/\text{m}^3$, Benzopyrene=1 ng/m^3 , Arsenic =6 ng/m^3 , Nickel=20 ng/m^3 , Annual basis. For, Industrial, Residential, Rural & Other Area and Ecologically Sensitive Area

Ref: National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18th November 2009

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Debasish Halder
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified



Page 1 of 1

End of Report

CENTRAL LABORATORY : HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, Pin- 721602

Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur(M), Block-B, Maheshtala, Kolkata-700142, Mob. : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com

**TEST REPORT**

Date: 07.03.2022	:	Report No: ICI/HL/N/TC-026/2022	Format No: ICI/FM/H/14
Customer Name	:	M/s. RAMCO INDUSTRIES LTD.	
Address	:	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative Name & Contact No.	:	Mr. Taraknath Bose Mob. No. 7063511804	
Work Order No.	:	KHG/POR/0025/21-22, Dtd. 07.04.2021	
Sample Description	:	WORKZONE NOISE	
Sampling Method	:	By Digital Noise Meter	
Test Method	:	IS 4758:1968 (RA 2017)	
Monitoring Details:			
Height from the floor	:	1.5 M	Total Time (T) : 18 Min
Distance of Source	:	3.0 M	Difference (dt) : 2 Min

Noise Source/ Location: NEAR BOD						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	Limit* dB(A)
2022/N-148	02.03.2022	12:10 PM	81.24	82.2	79.6	As per note

Noise Source/ Location : NEAR SF DRUM						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	Limit* dB(A)
2022/N-149	02.03.2022	12:35 PM	81.56	82.6	80.5	As per note

Noise Source/ Location: NEAR CORRUGATION BOX						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	Limit* dB(A)
2022/N-150	02.03.2022	01:00 PM	86.11	87.6	84.5	As per note

Noise Source/ Location: STRIPPING SECTION						DAY TIME
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L _{eq}) dB(A)	Maximum Noise (L _{max}) dB(A)	Minimum Noise (L _{min}) dB(A)	Limit* dB(A)
2022/N-151	02.03.2022	01:25 PM	87.24	88.2	85.9	As per note

***Note:**

OSHA's Permissible limit (PEL) is 90 dB (A) for all workers of an 8 Hour Day with 5 dB (A) exchange Rate
Indian Factory Act 1948 Permissible limit (PEL) is 90 dB (A) for all workers of an 8 Hour Day

Prepared By: N. Mondal

Checked By: A. Patra

For. INDICATIVE CONSULTANT INDIA

Debasish Halder
(Sr. Chemist)
Signatory Authority



Test Witnessed By: Sampling was done in front of customer's representative
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. Noise data was recorded at the customer site in presence of customer's representative.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 07.03.2022	Report No: ICI/HL/NTC-027/2022	Format No: ICI/EM/H/68
Customer Name	M/S. RAMCO INDUSTRIES LTD.	
Address	Devarnare, Aynar, P.O.-Haritara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative	Mr. Tarakath Bose	
Name & Contact No.	Mob. No. 70 63511804	
Work Order No.	KHG/PO/0025/21-22, Dtd. 07.04.2021	
Sample Description	AMBIENT NOISE	
Sampling Method	By Digital Noise Meter	
Test Method	IS 9989:1981 (RA 2020)	
Monitoring Details:		
Height from the floor	1.5 M	Total Time (T)
Distance of Source	3.0 M	Difference (dt)
		18 Min
		2 Min

Noise Source/ Location: NEAR MAIN GATE						
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-152	02.03.2022	10:15 AM	50.91	52.2	49.8	As per note
Results dB(A)						
DAY TIME						
Noise Source/ Location: NEAR STOCK YARD						
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-153	02.03.2022	10:45 AM	58.15	59.2	57.4	As per note
Results dB(A)						
DAY TIME						
Noise Source/ Location: BACK SIDE OF THE PLANT						
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-154	02.03.2022	11:15 AM	62.02	63.3	60.5	As per note
Results dB(A)						
DAY TIME						
Noise Source/ Location: NEAR SCRAP YARD						
Sample ID	Sampling Date	Sampling Time	Equivalent Noise (L_{eq}) dB(A)	Maximum Noise (L_{max}) dB(A)	Minimum Noise (L_{min}) dB(A)	Limit* dB(A)
2022/N-155	02.03.2022	11:45 AM	59.25	61.3	57.4	As per note
Results dB(A)						
DAY TIME						

Area Code		Category of Area/Zone	Limits dB (A) Leq	
			Day Time (06:00 AM to 10:00 PM)	Night Time (10:00 PM to 06:00 AM)
A		Industrial Area	75	70
B		Commercial Area	65	55
C		Residential Area	55	45
D		Silence Zone	50	40

For, INDICATIVE CONSULTANT INDIA
 Debashis Halder
 (Sr. Chemist)
 Signatory Laboratory

Checked By: A. Prava

Prepared By: N. Mondal

Test Witnessed By: Sampling was done in front of customer's representative
 Estimated Uncertainty: Not Required

Note:

1. Sample is drawn by M/s. Indicative Consultant India
2. Sample submitted and identified by customer as: N.A.
3. Test results shown in this test report relate only to the sample (s) only
4. The test results referred in test report are based on observations & measurements under the stated environmental conditions
5. Noise data was recorded at the customer site in presence of customer's representative.
6. The reproduction of the report except in full is invalid without written approval of the laboratory.





(GOVT. REGISTERED TEST HOUSE)



EMAIL : indicativeconsultantindia@gmail.com / indicativeconsultantindia.kol@gmail.com

TEST REPORT

Date: 12.03.2022	Report No: ICI/HL/W/RN-365/2022	Format No: ICI/FM/H/67	
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No	: 2022/W-365
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.- Kharagpur, Paschim Medinipur.	Sampling Date	: 02.03.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time	: 12:30 PM
		Analysis Start Date	: 03.03.2022
Letter Ref. No.	: -	Analysis complete Date	: 11.03.2022
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021		
Name of the Work	: -		
Sample Description	: DRINKING WATER		
Sample Condition	: In Plastic Bottle & Glass Bottle		
Sampling Method	: IS:3025 (Part I): 1987 (RA 2019), APHA 23 rd ed 2017		
Test Method	: APHA 23 rd ed 2017, IS:3025		
Location	: INSIDE OF THE PLANT		

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
ORGANOLEPTIC AND PHYSICAL PARAMETERS						
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-3):2018 APHA 23 rd Edition 2150 B
3.	pH (at 22°C)	-	6.57	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983 : RA 2017, APHA 23 rd Edition 4500-H' B
4.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4) 1983: RA 2017
5.	Conductivity	µS/cm	139.6	-	-	IS: 3025(Part-14):1984: RA 2019 APHA 23 rd Edition 2510 B
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984: RA 2017 APHA 23 rd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	116.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984: RA 2017 APHA 23 rd Edition 2540 C
GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS						
8.	Total Hardness as CaCO ₃	mg/L	60.5	200 (Max)	600 (Max)	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	43.4	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	17.1	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	17.4	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	4.2	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	17.9	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2019 APHA 23 rd Edition 4500Cl' B
14.	Total Alkalinity as CaCO ₃	mg/L	36.2	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	36.2	-	-	APHA 23 rd Edition 2320B
17.	Iron as Fe	mg/L	0.09	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	20.6	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E



CENTRAL LABORATORY : HPL Link Road, Basudevpur, Khanjanchak, Haldia, Purba Medinipur, Pin- 721602

Phone No. : 03224-275765, 9434017584, 9232395890, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur(M), Block-B, Maheshlala, Kolkata-700142, Mob. : 7797245819, 7797506970

WEBSITE : www.indicativeconsultantindia.com



Report No: ICI/HL/W/RN-365/2022

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Silica as SiO ₂	mg/L	18.2	-	-	IS: 3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
21.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS: 3025(Part-60):2008 : RA 2019 APHA 23 rd Edition 4500 FD
22.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
PARAMETERS CONCERNING TOXIC SUBSTANCES						
23.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
BACTERIOLOGICAL PARAMETERS						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	E. Coli	CFU/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks:1) Chemical test parameters: **Compliance** – The above mentioned test parameters are within the desirable limit as per specification IS 10500:20122) Bacteriological test parameters: **Compliance** – The above mentioned test parameters are within desirable limit as per specification IS 10500:2012

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Debasish Halder
(Sr. Chemist)

Signatory Authority

Test Witnessed By: Nil

Estimated Uncertainty: Not Required



- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
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 6. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.

End of Report

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TEST REPORT

Date: 12.03.2022	Report No: ICI/HL/W/RN-366/2022	Format No: ICI/FM/H/67
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/W-366
Address	: Dewanmaro, Ayma, P.O.-Hariatara, P.S.- Kharagpur, Paschim Medinipur.	Sampling Date : 02.03.2022
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. 70 63511804	Sampling Time : 01:00 PM
Letter Ref. No.	: -	Analysis Start Date : 03.03.2022
Work Order No.	: KHG/POR/0025/21-22, Dtd. 07.04.2021	Analysis complete Date : 11.03.2022
Name of the Work	: -	
Sample Description	: DRINKING WATER	
Sample Condition	: In Plastic Bottle & Glass Bottle	
Sampling Method	: IS:3025 (Part I): 1987 (RA 2019), APHA 23 rd ed 2017	
Test Method	: APHA 23 rd ed 2017, IS:3025	
Location	: GUEST HOUSE	

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
ORGANOLEPTIC AND PHYSICAL PARAMETERS						
1.	Appearance	-	Clear	-	-	-
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
3.	pH (at 22°C)	-	6.51	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983 : RA 2017, APHA 23 rd Edition 4500-H' B
4.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4) 1983: RA 2017
5.	Conductivity	µS/cm	146.3	-	-	IS: 3025(Part-14):1984: RA 2019 APHA 23 rd Edition 2510 B
6.	Turbidity	N.T.U.	<1.0	1 (Max)	5 (Max)	IS:3025(Part-10):1984: RA 2017 APHA 23 rd Edition 2130 B
7.	Total Dissolved Solid (TDS)	mg/L	120.0	500 (Max)	2000 (Max)	IS:3025(Part-16):1984: RA 2017 APHA 23 rd Edition 2540 C
GENERAL PARAMETERS CONCERNING SUBSTANCES UNDESIRABLE IN EXCESSIVE AMOUNTS						
8.	Total Hardness as CaCO ₃	mg/L	63.5	200 (Max)	600 (Max)	IS:3025(Part-21):2009: RA 2019 APHA 23 rd Edition 2340 C
9.	Ca Hardness as CaCO ₃	mg/L	47.4	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness as CaCO ₃	mg/L	16.1	-	-	APHA 23 rd Edition 2340 C
11.	Calcium as Ca	mg/L	19.0	75 (Max)	200 (Max)	IS:3025(Part-40):1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium as Mg	mg/L	3.9	30 (Max)	100 (Max)	IS:3025(Part-46):1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride as Cl	mg/L	17.9	250 (Max)	1000 (Max)	IS:3025(Part-32):1988: RA 2019 APHA 23 rd Edition 4500Cl B
14.	Total Alkalinity as CaCO ₃	mg/L	37.2	200 (Max)	600 (Max)	IS:3025(Part-23):1986: RA 2019 APHA 23 rd Edition 2320 B
15.	P-Alkalinity as CaCO ₃	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity as CaCO ₃	mg/L	37.2	-	-	APHA 23 rd Edition 2320B
17.	Iron as Fe	mg/L	0.10	0.3 (Max)	No Relaxation	IS:3025(Part-53):2003: RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate as SO ₄	mg/L	26.0	200 (Max)	400 (Max)	IS:3025(Part-24):1986: RA 2019 APHA 23 rd Edition 4500 SO ₄ E





(GOVT. REGISTERED TEST HOUSE)



EMAIL: indicativeconsultantindia@gmail.com / indicativeconsultantindia.kol@gmail.com

Report No: ICI/HLW/RN-366/2022

Sl. No.	Parameters	Unit	Result	Desirable Limit	Permissible limit in the absence of alternate source	Method Followed
						As Per IS:10500:2012
19.	Phosphate as P	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Silica as SiO ₂	mg/L	17.4	-	-	IS:3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ C
21.	Fluoride as F	mg/L	<0.04	1 (Max)	1.5 (Max)	IS:3025(Part-60):2008 : RA 2019 APHA 23 rd Edition 4500 FT
22.	Manganese as Mn	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
PARAMETERS CONCERNING TOXIC SUBSTANCES						
23.	Arsenic as As	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B
BACTERIOLOGICAL PARAMETERS						
24.	Total Coliform	MPN/100 ml	<2.0	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
25.	E. Coli	CFU/100 ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

Remarks:

- 1) Chemical test parameters: **Compliance** – The above mentioned test parameters are within the desirable limit as per specification IS 10500:2012
- 2) Bacteriological test parameters: **Compliance** – The above mentioned test parameters are within desirable limit as per specification IS 10500:2012

For, INDICATIVE CONSULTANT INDIA

Debasis Haider
(Srl. Chemist)
Signatory



Checked By: A. Saha

Prepared By: N. Mondal

Test Witnessed By: Nil
Estimated Uncertainty: Not Required

- Note :
1. Sample is drawn by M/s. Indicative Consultant India
 2. Sample submitted and identified by customer as: N.A.
 3. Test results shown in this test report relate only to the sample (s) only
 4. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 5. The reproduction of the report except in full is invalid without written approval of the laboratory
 6. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

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Report No: 21110061.01

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.01	Sampled On	: 08/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-065
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.01	Stripping area	08/11/2021	Area	02	12:00 PM	04:00 PM	240	480	0.063

Verified By

.....CONF.....

For CVR LABS (P) LIMITED
Nirmala K.B
23/11/2021
K.B. NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, II Floor, No. 2/9, Abdul Razack Street,
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TEST REPORT

014049

Page 2 of 11

Report No: 21110061.02

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.02	Sampled On	: 08/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-066
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.02	Moulding area	08/11/2021	Area	02	12:10 PM	04:10 PM	240	480	0.047

 (G. Dmyan)
23/11/2021

Verified By

.....cont.....

For CVR LABS (P) LIMITED



23/11/2021

Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, II Floor, No. 2/9, Abdul Razack Street,
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TEST REPORT 014050

Page 3 of 11

Report No: 21110061.03

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara. Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.03	Sampled On	: 08/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-067
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.03	Drum Cutter Off area	08/11/2021	Area	02	12:20 PM	04:20 PM	240	480	0.041

Verified By

.....CONF.....

For CVR LABS (P) LIMITED
NABH NO. 101/2018
23/11/2021
Authorised Signatory

Laboratory - Accredited By: NABL (TC-7618); Recognized By: BIS, FSSAI, MoEF; Certified By: ISO 9001:2015 & ISO 45001:2018

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TEST REPORT 014051

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Report No: 21110061.04

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmoro Ayma village Hariatara (PO) Hariatara. Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.04	Sampled On	: 08/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-068
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.04	Auto Box area	08/11/2021	Area	02	12:30 PM	04:30 PM	240	480	0.033

(G. Imran)
23/11/2021

Verified By

.....cont.....

For CVR LABS (P) LIMITED

(Signature)
23/11/2021
Authorised Signatory

Laboratory - Accredited By: NABL (TC-7618); Recognized By: BIS, FSSAI, MoEF; Certified By: ISO 9001:2015 & ISO 45001:2018

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TEST REPORT 014052

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Report No: 21110061.05

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,
Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.05	Sampled On	: 08/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-069
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.05	Fibre Godown	08/11/2021	Area	02	12:35 PM	04:35 PM	240	480	0.053

[Signature]
23/11/2021 (G. Doman)

Verified By

.....cont.....

For CVR LABS (P) LIMITED

[Signature]
23/11/2021
K.B. NIRMALA

Authorised Signatory



CVR Labs (P) Limited

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TEST REPORT

014053

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Report No: 21110061.06

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur - 721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.06	Sampled On	: 09/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-065
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.06	Slurry Mixer	09/11/2021	Area	02	09:00 AM	01:00 PM	240	480	0.067

[Signature]
23/11/2021

Verified By

.....cont.....

For CVR LABS (P) LIMITED

[Signature]

23/11/2021

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TEST REPORT 014054

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Report No: 21110061.07

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur - 721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.07	Sampled On	: 09/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-066
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.07	Bod area	09/11/2021	Area	02	09:10 AM	01:10 PM	240	480	0.051

Avran (G. Dmsan)
23/11/2021

Verified By

.....cont.....

For CVR LABS (P) LIMITED
Nibhana K. K. B.
23/11/2021
R.B. MISHRA
Authorised Signatory

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TEST REPORT 014055

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Report No: 21110061.08

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

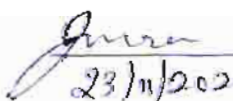
Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.08	Sampled On	: 09/11/2021
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-067
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.01	Pulveriser Area	09/11/2021	Area	02	09:20 AM	01:20 PM	240	480	0.065

 (G. Daman)
23/11/2021

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.....cont.....

For CVR LABS (P) LIMITED

23/11/2021
K.E. NIRMALA
Authorised Signatory

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TEST REPORT 014056

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Report No: 21110061.09

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code : 21110061.09

Sampled On : 09/11/2021

Sample Name : Work zone Air Quality
Monitoring

Sample Received On : 12/11/2021

Sample Description : Asbestos Fibre

Sampling Location : -

Sample Condition : Good

Sampling Procedure : NIOSH 7400

Sample Quantity : NA

Equipment Used : CVR/CH-068

Sampled By : CVR Labs

Test Started On : 13/11/2021

Customer Code : NA

Test Completed On : 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.09	Ball Mill	09/11/2021	Area	02	09:30 AM	01:30 PM	240	480	0.041

(G. Deyan)
23/11/2021

Verified By

.....cont.....

For CVR LABS (P) LIMITED

(K.B. Nirmala)

23/11/2021
K.B. NIRMALA

Authorized Signatory

Laboratory - Accredited By: NABL (TC-7618); Recognized By: BIS, FSSAI, MoEF; Certified By: ISO 9001:2015 & ISO 45001:2018

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TEST REPORT 014057

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Report No: 21110061.10

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,

Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.10	Sampled On	: 09/11/2021
Sample Name	: Fibre Stack Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-069
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.10	Fibre Stack	09/11/2021	Area	01	09:40 AM	10:10 AM	30	30	0.13

Verified By

.....cont.....

For CVR LABS (P) LIMITED

 23/11/2021
 K.B. NIRMALA
 Authorised Signatory

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TEST REPORT

014058

Page 11 of 11

Report No: 21110061.11

Report Date: 23/11/2021

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S.Ramco Industries Limited,
Dewanmaro Ayma village Hariatara (PO) Hariatara, Kharagpur -721304,
West Bengal India.

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 21110061.11	Sampled On	: 09/11/2021
Sample Name	: Fibre Stack Monitoring	Sample Received On	: 12/11/2021
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH-069
Sampled By	: CVR Labs	Test Started On	: 13/11/2021
Customer Code	: NA	Test Completed On	: 23/11/2021

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	21110061.11	Pulveriser Stack	09/11/2021	Area	01	11:00 AM	11:30 AM	30	30	0.19

[Signature]
23/11/2021 (G. Daman)

Verified By

***** END OF REPORT *****

For CVR LABS (P) LIMITED
[Signature]
23/11/2021
K.B. NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

017045

Page 1 of 1

Report No: 22020030.02

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.02	Sampled On	: 03/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/066
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.02	Moulding area	03/02/2022	Area	2	10.10 AM	2.10 PM	240	480	0.051

For CVR LABS (P) LIMITED

R. Karthick
12/02/2022
Verified By

***** END OF REPORT *****

Nirmala
K.B. NIRMALA
Authorised Signatory

Laboratory - Accredited By: NABL (TC-7618); Recognized By: BIS, FSSAI, MoEF; Certified By: ISO 9001:2015 & ISO 45001:2018

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TEST REPORT

017044

Page 1 of 1

Report No: 22020030.01

Report Date: 12/02/2022

Discipline :Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.01	Sampled On	: 03/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/065
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.01	Stripping area	03/02/2022	Area	2	10.00 AM	2.00 PM	240	480	0.047

For CVR LABS (P) LIMITED

R. Karthick
12/02/2022

Verified By

***** END OF REPORT *****

Nirmala
12/02/2022
K.B. NIRMALA
Authorized Signatory

Laboratory - Accredited By: NABL (TC-7618); Recognized By: BIS, FSSAI, MoEF; Certified By: ISO 9001:2015 & ISO 45001:2018

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TEST REPORT

017046

Page 1 of 1

Report No: 22020030.03

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.03	Sampled On	: 03/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/067
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.03	Drum Cutter Off area	03/02/2022	Area	2	10.20 AM	2.20 PM	240	480	0.039

For CVR LABS (P) LIMITED

R. Karthick
12/02/2022
Verified By

***** END OF REPORT *****

Nirmala K.B.
12/02/2022
Authorized Signatory

Laboratory - Accredited By: NABL (TC-7618); Recognized By: BIS, FSSAI, MoEF; Certified By: ISO 9001:2015 & ISO 45001:2018

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CVR Labs (P) Limited

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TEST REPORT

017041

Page 1 of 1

Report No: 22020030.04

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.04	Sampled On	: 03/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/068
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.04	Auto Box area	03/02/2022	Area	2	10.30 AM	2.30 PM	240	480	0.041

R. Karthick
12/02/2022

Verified By

***** END OF REPORT *****

For CVR LABS (P) LIMITED

Nirmala K.B.
K.B. NIRMALA
Authorised Signatory

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CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

017043

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Report No: 22020030.05

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

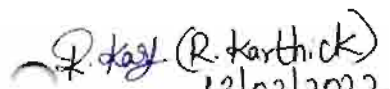
Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

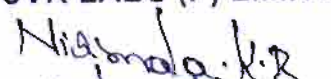
Sample Code	: 22020030.05	Sampled On	: 03/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/069
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.05	Fibre Godown	03/02/2022	Area	2	10.40 AM	2.40 PM	240	480	0.055


12/02/2022
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***** END OF REPORT *****

For CVR LABS (P) LIMITED


N. B. NIRMALA
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TEST REPORT

0170.15

Page 1 of 1

Report No: 22020030.06

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.06	Sampled On	: 04/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/065
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.06	Slurry Mixer	04/02/2022	Area	2	9.30 AM	1.30 PM	240	480	0.053

R. Karthick
12/02/2022

Verified By

***** END OF REPORT *****

For CVR LABS (P) LIMITED

Nirmala K. S.
K. S. NIRMALA
Authorized Signatory

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TEST REPORT

017056

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Report No: 22020030.07

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.07	Sampled On	: 04/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/066
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.07	BOD area	04/02/2022	Area	2	9.40 AM	1.40 PM	240	480	0.049

R. Karthick
Verified By
12/02/2022

***** END OF REPORT *****

For CVR LABS (P) LIMITED

Nidhina A.K.G
K.B. NIDHINA
Authorised Signatory



CVR Labs (P) Limited

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TEST REPORT

017051

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Report No: 22020030.08

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Aynia village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.08	Sampled On	: 04/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/067
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.08	Pulveriser Area	04/02/2022	Area	2	9.50 AM	1.50 PM	240	480	0.044

For CVR LABS (P) LIMITED

R. Karthick
12/02/2022

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***** END OF REPORT *****

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J.K.B. NIRMALA
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TEST REPORT

017050

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Report No: 22020030.09

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayna village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.09	Sampled On	: 04/02/2022
Sample Name	: Work zone Air Quality Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/068
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.09	Ball Mill	04/02/2022	Area	2	10 00 AM	2.00 PM	240	480	0.057

For CVR LABS (P) LIMITED

R. Karthick
12/02/2022
Verified By

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Nirmala A.K.B
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TEST REPORT

017053

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Report No: 22020030.10

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.10	Sampled On	: 04/02/2022
Sample Name	: Fibre Stack Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/069
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.10	Fibre Stack	04/02/2022	Area	2	10.30 AM	11.00 PM	30	60	0.1

For CVR LABS (P) LIMITED

R. Karthick
12/02/2022
Verified By

***** END OF REPORT *****

Nishu
12/02/2022
Authorised Signatory



CVR Labs (P) Limited

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TEST REPORT

017054

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Report No: 22020030.11

Report Date: 12/02/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited

Dewanmaro Ayma village Hariatara (PO) Hariatara,
Kharagpur, West Bengal India- 721304.

Customer Reference:

SAMPLE DETAILS

Sample Code	: 22020030.11	Sampled On	: 04/02/2022
Sample Name	: Fibre Stack Monitoring	Sample Received On	: 07/02/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/069
Sampled By	: CVR Labs	Test Started On	: 07/02/2022
Customer Code	: NA	Test Completed On	: 12/02/2022

S.No	CVR Sample ID	Sample Location	Collected Date	Area/ person	Flow Rate Lpm	Time On	Time Off	Total Time (min)	Volume (Liters)	Fibers/ cc
01	22020030.11	Pulveriser Stack	04/02/2022	Area	2	11.30 AM	12.00 PM	30	60	0.13

R. Karthick
12/02/2022
Verified By

***** END OF REPORT *****

For CVR LABS (P) LIMITED

Niraj K.B.
12/02/2022
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