

Ramco Industries Limited



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RIL CIN NO.
L26943TN1905PL C005297

Date: 11/05/2023

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 Madam,

We are submitting our six-month compliance report from October'22 to March'2023 duly complied with.

Kindly acknowledge the same.

Thanking you,

Yours faithfully,

For Ramco Industries Ltd.


N. Srinivasan
(Assistant Works Manager)



Encl:

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

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'2022 to March'2023

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 emission and ensure that the stack emission of	We are complying with total dust emission limit of 2mg/Nm ³ as notification under the Environment (Protection) Act, 1986. Adequate measures have been adopted to



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.	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 with in 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 e 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 (PM₁₀, 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 recycling 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.
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 submitted to the Ministry of Environment and Forest.	There is no toxic or trace elements found in the fibre supply.
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	Regular medical examination of the workers and health monitoring of all the employees are carried out. We will maintain record upto minimum



	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.	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. Implementation of such program should be ensured accordingly in a time bound manner.	We are regularly doing CSR activity.
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	We have provided all necessary infrastructure and facilities to our labour working in the site.

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.	
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, Kolkata 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'2022 to March'2023- Rs 10,71,090/-. 1) Garden Maintenance & Plantation- Rs-55,150/- 2) Personal Protective equipment, like Nose mask, hand gloves, Gum boot, etc- Rs-3,77,411/- 3) Environmental Monitoring jobs Rs-7,46,840/-.
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 parameters, indicated for the projects shall be monitored & displayed at a convenient location near the main gate of the company in the public domain.	We have uploaded the six monthly compliance reports in our company website (www.ramcoindia.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.
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 monitoring data has already been sent to the office along with the compliance report for the period April'22 to September'22 in the month of October'22.

	the respective Zonal Office of CPCB & the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	
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'31st) to state pollution control board. Also uploaded this in our website (www.ramcoindltd.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'2022	Feb'2023
Fibre Go down	0.034 f/cc	0.045 f/cc
BOD	0.043 f/cc	0.037 f/cc
Slurry Mixer	0.038 f/cc	0.040 f/cc
Cutter Off	0.038 f/cc	0.042 f/cc
Auto Box	0.048 f/cc	0.038 f/cc
Moulding	0.042 f/cc	0.038 f/cc
Stripping	0.032 f/cc	0.04 f/cc
Pulveriser	0.038 f/cc	0.035 f/cc
Ball Mill	0.046 f/cc	0.039 f/cc
Stack Attached to BOD & Edge runner mill	0.034 f/cc	0.042 f/cc
Stack Attached to Pulveriser	0.048 f/cc	0.034 f/cc





ENVIROCHECK



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	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/19/Oct./A/I	Report No.	: ENV/19/Oct./TR(A)/1/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached 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	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 34.20	N.A.
2.	Barometric Pressure	mm of Hg.	-	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.42	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 4533.0	N.A.
5.	Concentration of Particulate Matter	mg/Km ³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Ser. 11 [Vol. 3 11.07] : 2011	: 1.68	2.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COINDS/26/1986-87].
: N.A. means Not Available.

Reviewed By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, Chennai

Approved By:

Dr. S. S. Chatterjee
Dr. S. S. CHATTERJEE
Technical Manager

TEST REPORT

FORMAT NO: ENV/FM/08

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	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/19/Oct./A/II	Report No.	: ENV/19/Oct./TR(A)/II/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached 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	LIMIT
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	: 35.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	: 13.56	N.A.
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	: 3263.90	N.A.
5.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol. 3 11.07) : 2011	: 1.75	2.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : GOINDS/26/1986-87].
: N.A. means Not Available.

Reviewed By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dy. Technical Manager, QCM

Approved By:

Dr. S. S. Choudhury

DR. S. S. CHOUDHURY
Technical Manager

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. - Dewannaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/19/Oct./A/III	Report No.	: ENV/19/Oct./TR(A)/III/22-23

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.)	: 4.572
Capacity	: Rated - 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	LIMIT
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	44.3	N.A.
2.	Barometric Pressure	mm of Hg.	"	754.0	N.A.
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	16.33	N.A.
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	2770.06	N.A.
5.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) 1985 BA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005): Sec. 11 (Vol. 3 11.07): 2011	1.84	2.0

Remarks : Limit as per CPCB (Emission Regulation Part IV: COINDS/26/1906-87).
: N.A. means Not Available.

Reviewed By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Technical & Management Officer

Approved By:

Dr. S. D. Chatterjee
Dr. S. D. CHATTERJEE
Technical Manager

TEST REPORT

FORMAT NO.: ENV/FM/30

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	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Stack Emission
Sample ID No.	: ENV/19/Oct/A/IV	Report No.	: ENV/19/Oct/TR(A)/IV/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: D. G. Set - 725 KVA	Height of Stack (mtr.) (from G. L.)	: 12.50
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.20
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 8.40
Capacity	: 725 KVA		
Emission Due to	: Combustion of H.S.D		
Fuel Used	: H.S.D	Permanent Platform & Ladder	: Yes
Working Fuel Consumption	: 145 litr./hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 178.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 754.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 15.85	N.A.
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	: 1173.83	N.A.
5.	Concentration of SO₂	mg/Nm³	IS 11255 (Part 2) 1985 RA 2003	: 66.86	N.A.
6.	Concentration of CO₂	% (v/v)	IS 13270 1992 RA 2003	: 8.0	N.A.
7.	Concentration of CO	% (v/v)	IS 13270 1992 RA 2003	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) 1985 RA 2003 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 [Vol. 3 11.07] : 2011	: 81.43	150.0

Remarks : Result shows that concentration of Particulate Matter and CO value are within limit as per CPCB (Emission Regulation Part IV : COINDS/26/1986-87).

: N.A. means Not Available.

Reviewed By:

Indrani Bhattacharya
INDRANI BHATTACHARYA
By: Technical Manager, Chennai

Approved By:

Dr. Smita Chowdhury
DR. SMITA CHOWDHURY
Technical Manager

TEST REPORT

FORMAT NO.: ENV/FM/17

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewannaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 17.10.2022 - 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SDP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/19/Oct./A/V	Report No.	: ENV/19/Oct./TR(A)/V/22-23

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 ($^{\circ}\text{C}$) : 27.0
2. Average Relative Humidity (%) : 80.0
3. Barometric Pressure (mm of Hg) : 754.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of $\text{PM}_{2.5}$	$\mu\text{g}/\text{m}^3$	USEPA 1997a, 40 CFR Part 50, Appendix L	49.20	60.0
2.	Concentration of PM_{10}	$\mu\text{g}/\text{m}^3$	IS 5182 (PART 23) : 2006	81.50	100.0
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	11.85	80.0
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	31.47	80.0
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	2.0
6.	Concentration of Pb	$\mu\text{g}/\text{m}^3$	IS 5182 (Part 22) 2004	<0.01	1.0
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	1.0
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	5.0
9.	Ozone (O_3)	$\mu\text{g}/\text{m}^3$	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH_3)	$\mu\text{g}/\text{m}^3$	NIOSH Manual of Analytical Method, 4th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m^3	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m^3	EPA IO 3.2, 1999, APHA 23rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

Reviewed By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Technical Manager, Chennai

Approved By:

Devi Prasad Chowdhury

DEVI PRASAD CHOWDHURY
Technical Manager

TEST REPORT

FORMAT NO.: ENV/FM/12

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmura Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 17.10.2022 - 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/19/Oct./A/VI	Report No.	: ENV/19/Oct./TR(A)/VI/22-23

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) : 27.0
2. Average Relative Humidity (%) : 80.0
3. Barometric Pressure (mm of Hg) : 754.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	56.66	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	87.17	100.0
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	12.46	80.0
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	31.15	80.0
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	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
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	1.0
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	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C: 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

Reviewed By:

Sudrani Bhattacharya

MD. PIATTAJAYALAKSHI
New Technical Manager, Chennai

Approved By:

Dr. Smita Chowdhury

Dr. Smita Chowdhury
Technical Manager



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. - Dewannaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 17.10.2022 - 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/19/Oct./A/VII	Report No.	: ENV/19/Oct./TR(A)/VII/22-23

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 (%) : 80.0
3. Barometric Pressure (mm of Hg) : 754.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	51.68	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	86.18	100.0
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	8.64	80.0
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	26.44	80.0
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	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
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	1.0
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	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, Issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009

Reviewed By:

Indrani Bhattacharya

PANIBHATTACHARYA
Regional Manager, Guwahati

Approved By:

Dr. Smita Choudhury

Dr. Smita Choudhury
General Manager

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	: 17.10.2022 - 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Ambient Air
Sample ID No.	: ENV/19/Oct./A/VIII	Report No.	: ENV/19/Oct./TR(A)/VIII/22-23

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 (%) : 78.0
3. Barometric Pressure (mm of Hg) : 754.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Partly Cloudy

C) RESULTS

Sl. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	USEPA 1997a, 40 CFR Part 50, Appendix L	49.12	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2006	84.10	100.0
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	6.83	80.0
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	25.96	80.0
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	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) 2004	<0.01	1.0
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	1.0
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	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-IX) : 1974	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	NIOSH Manual of Analytical Method, 4 th Edition 1994, Method 6015, Issue 2	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999, APHA 23 rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
By Technical Manager, Chennai

Approved By :

Dr. Sunita Singh

Dr. SUNITA SINGH
Technical Manager



ENVIROCHECK

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ISO 15001:2015

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ISO 15001:2015

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ISO 9001:2015
ISO 14001:2015

FORMAT NO. ENV/FM/40

TEST REPORT

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	: 18.10.2022
		Period of analysis	: 18.10.2022 - 21.10.2022
		Date of Issue	: 21.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Domestic Effluent Water (Grab)
Location	: Septic Tank Outlet (Canteen Side)	Sample ID No.	: ENV/12/Oct./W
		Report No.	: ENV/12/Oct./TR(W)/22-23

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H ⁺ B APHA 23 rd Edition, 2017	--	6.87	5.5 - 9.0
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	30.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	2.2	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	38.72	250.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 B APHA 23 rd Edition, 2017	mg/l	10.0	30.0

Remarks: Limit as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

Reviewed By:

INDRANI BHATTACHARYA
By: Technical Manager, Chemical

Approved By:

Dr. SUMIT CHOUDHURY
Technical Manager

TEST REPORT

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewannam Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 21.10.2022
		Date of Issue	: 22.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Location	: Tap of Quality Control Lab
		Type of Sample	: Drinking Water
		ULR No.	: TC601422000000349F

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	--	6.72	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	119.0	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	14.42	75.0	200.0
9. Chloride	IS 3025 (Part 32): 1988, RA 2014	mg./l	16.0	250.0	1000.0
10. Iron	IS 3025 (Part 53): 2003, RA 2014	mg./l	0.89	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	2.60	45.0	No Relaxation
14. Sulfate	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	44.0	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	0.07	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	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
INDRANI BHATTACHARYA
Dy. Technical Manager, Chemical

Approved By:

Dr. Sumit Choudhury
Dr. SUMIT CHOUDHURY
Technical Manager



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	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 22.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Location	: Tap of Quality Control Lab
		ULR No.	: TC601422000000349F
		Type of Sample	: Drinking Water

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

ABHINAV CHANDRASEKARAN
Dy. Quality Manager

Approved By:

Pragyanthi M. Srinivasan
Technical Manager, Microbiology

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	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 21.10.2022
		Date of Issue	: 22.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Location	: Tap of Guest House
		ULR No.	: TC601422000000350F
		Type of Sample	: Drinking Water

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	--	5.89	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 7 and B): 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	112.0	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	14.42	75.0	200.0
9. Chloride	IS 3025 (Part 32): 1988, RA 2014	mg/l	14.0	250.0	1000.0
10. Iron	IS 3025 (Part 53): 2003, RA 2014	mg/l	0.66	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46): 1994, RA 2014	mg/l	1.44	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	2.30	45.0	No Relaxation
14. Sulfate	IS 3025 (Part 24): 1986, RA 2014	mg/l	12.50	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23): 1986, RA 2014	mg/l	44.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21): 2009, RA 2014	mg/l	42.0	200.0	600.0
17. Zinc	IS 3025 (Part 49): 1994, RA 2014	mg/l	0.05	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	1.80	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
Dy. Technical Manager, Chemical

Approved By:

Dr. Subit Chowdhury
DR. SUBIT CHOWDHURY
Technical Manager



ENVIROCHECK



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	: 18.10.2022
		Period of Analysis	: 18.10.2022 - 19.10.2022
		Date of Issue	: 22.10.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Guest House
		ULR No.	: TC601422000000350F

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 :

[Signature]
Dy. Quality Manager

Approved By :

[Signature]
Technical Manager, Microbiology



ENVIROCHECK



FORMAT NO. ENV/FM/53

TEST REPORT

Name of Industry / Company / Factory / Office	Ramco Industries Limited
Address	Village - Dewannara Ayma, P.O. - Hariatara, P.S. - Kharagpur. District -
Type of Industry	Pachin Medinipur, Pin- 721301.
Sampling Plan & Procedure	Asbestos Cement Corrugated & Accessories Manufacturing Unit
Deviation from the Sampling Method & Plan	ENV/SOP/02
Type of Sample	No
Sample ID	Noise Level Study
Date of Study	Report ID
Method No.	Reporting Date
Sample Monitored by	Time of Duration of Noise
	Height from Ground Level

RESULT OF NOISE LEVEL STUDY

Sl. No.	Location Name	dB (A) - (Noise Data)										Time (Hours)	Min dB (A)	Max dB (A)	L _{eq} dB (A)	Limit in L _{eq} dB(A)
1.	Near Main Gate	49.9	50.7	52.3	51.8	49.8	50.5	51.7	53.2	54.7	52.3	10:30 - 10:50 A.M (Day Time)	49.5	54.7	51.55	A. Industrial Area (Day Time - 75.0) (Night Time - 70.0)
2.	Near Main Gate	45.2	47.3	48.0	45.8	44.1	45.8	44.9	43.5	45.9	47.2	10:00 - 10:20 P.M (Night Time)	43.5	48.0	45.25	
3.	Near Stock Yard	59.0	60.2	61.5	62.8	62.3	63.2	63.0	62.8	61.9	60.7	11:00 - 11:20 A.M (Day Time)	59.0	63.2	61.92	B. Commercial Area (Day Time - 65.0) (Night Time - 55.0)
4.	Near Stock Yard	55.3	54.8	53.7	53.9	50.8	56.5	57.2	58.6	60.5	61.2	10:30 - 10:50 P.M (Night Time)	53.7	61.2	58.12	
5.	Near Scrap Yard	64.7	65.3	64.0	63.4	65.2	67.5	68.5	67.0	65.1	64.2	11:30 - 11:50 A.M (Day Time)	63.4	67.8	65.69	C. Residential Area (Day Time - 55.0) (Night Time - 45.0)
6.	Near Scrap Yard	52.7	52.9	51.4	50.4	50.9	51.2	52.0	53.1	52.2	51.3	11:00 - 11:20 P.M (Night Time)	50.4	53.1	51.50	
7.	Back side of the Plant	63.7	64.8	65.3	66.7	63.4	67.2	68.1	67.0	66.4	65.2	12:00 - 12:20 P.M (Day Time)	63.7	68.1	66.10	
8.	Back side of the Plant	56.7	56.3	54.8	54.3	56.5	56.0	57.2	58.4	59.2	58.0	11:30 - 11:50 P.M (Night Time)	54.3	59.2	57.11	D. Silent Zone (Day Time - 50.0) (Night Time - 40.0)

> End of Report <

** Mean of L _{eq} - Equivalent to Sound Energy		** Central Pollution Control Board, Ministry of Environment & Forests Government of India & Department of Environment, Government of West Bengal	
		**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	
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS / Source : The Noise Pollution (Regulation and Control) Rules, 2000			
Hours	Limit in dB(A)		
0	90		
1	93		
2	96		
3	99		
1/2	102		
1/4	105		
1/8	108		
1/16	111		
1/32	114		
(2 minutes or less)			

Reviewed By:

Indranil Bhattacharya
 Dr. Indranil BHATTACHARYA
 Dr. Technical Manager, Chemical

Approved By:

Dr. Ananta Choudhury
 Dr. ANANTA CHOUDHURY
 Technical Manager

H.O. : 63/B, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792891/ 25497490 ■ Fax : 033 25289141
 Laboratory : 189, 190 & 192, Rastraguru Avenue, Kolkata -700028 ■ Ph. 033 25792889
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 Branch Office : Siliguri ■ Haldia ■ Durgapur ■ Dhanbad ■ Gangtok ■ Port Blair ■ Dehradun ■ New Delhi
 Overseas : UAE ■ Qatar ■ Netherlands



TEST REPORT

Date: 09.11.2022	Report No: ICIHL/A/PTC-771/2022	Format No: ICI/FMH/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-771
Address	Dewanmari, Ayma, P.O - Harinara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 04.11.2022
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Sampling Time : 10:05 AM
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 08.11.2022
#Sample Description	STACK AIR	Analysis complete Date : 08.11.2022
#Location	EDGE RUNNER MILL BOD & SLURRY MIXING	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	

A.] # GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	EDGE RUNNER MILL BOD & SLURRY MIXING	Shape of Stack	Circular
Stack attached to	Process Activity	Material of Construction	M.S.
Emission due to		Stack ID at sampling point (M)	0.30
Fuel Used		At Bottom (M)	-
Rated Fuel Consumption		At Top (M)	0.30
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)	8.40
		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 (°C)	34	Steam Generation Capacity :	
Barometric Pressure, (mm Hg)	755	a) Rated	-
Velocity of Gas flow (m/s)	8.59	b) Running	-
Quantity of Gas flow (Nm³/hr)	2082.09	Load :	
Pressure	-	a) Rated	-
		b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm³)	1.4	IS 11255 (Part -1): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	
03.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	CO₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Purbati Choudhary
(Quality Manager)
Signatory Authority

Parbati Choudhary
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Note :
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
 8. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-432 from the date of issue unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



INDICATIVE CONSULTANT INDIA



(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 09.11.2022	Report No: ICI/HL/A/PTC-772/2022	Format No: ICI/FM/11/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-772
Address	Dewanmari, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 04.11.2022
#Customer Representative Name & Contact Number	Mr. Tarakanth Bose Mob. No. +91-7063511804	Sampling Time : 11:20 AM
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 08.11.2022
#Sample Description	STACK AIR	Analysis complete Date : 08.11.2022
#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			
Stack attached to	CEMENT & FLY ASH FEEDING SECTION	Shape of Stack	Circular
Emission due to	Feeding of Raw Material	Material of Construction	M.S.
Fuel Used	-	Stack ID at sampling point (M)	0.40
Rated Fuel Consumption	-	At Bottom (M)	-
Working Fuel Consumption	-	At Top (M)	0.40
Calorific Value(Kcal/kg)	-	Height Details :	
Sulphur Content (% by Wt.)	-	a) Total Ht. Of stack from GL(M)	15.00
Ash Content (% by Wt.)	-	b) Total Ht. Of stack from RL(M)	-
Pollution Control Device	Bag Filter	c) Ht. of sampling port from GL(M)	8.40
Whether Stack is provided with permanent Platform / Ladder	Yes	d) Ht. of port from disturbance zone (M)	-

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	35	Steam Generation Capacity :	
Barometric Pressure, (mm Hg)	755	a) Rated	-
Velocity of Gas flow (m/s)	9.05	b) Running	-
Quantity of Gas flow (Nm³/hr)	3938.38	Load	
Pressure	-	a) Rated	-
		b) Running	10 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm³)	1.6	IS 11255 (Part -1): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	
03.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	CO₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Choudhary
(Quality Manager)
Signature Authority
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
- Information provided by customer
 - Sample is drawn by M/s. Indicative Consultant India.
 - Sample submitted and identified by customer as: NA
 - 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.
 - Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 - Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-432 from the date of issue unless otherwise specified.
 - Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 09.11.2022	Report No: ICI/HIL/PTC-773/2022	Format No: ICI/FM/H/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/PA-773
Address	Dewanmari, Ayma, P.O.-Harinara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 04.11.2022
#Customer Representative Name & Contact Number	Mr. Taniknath Bose Mob. No. +91-7063511804	Sampling Time : 01:40 PM
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 08.11.2022
#Sample Description	STACK AIR	Analysis complete Date : 08.11.2022
#Location	PULVERIZER SECTION	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	

A.] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	PULVERIZER SECTION	Shape of Stack	Circular
Stack attached to	Process Activity	Material of Construction	M.S
Emission due to		Stack ID at sampling point (M)	0.26
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)	15.00
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)	37	Steam Generation Capacity :	
Barometric Pressure (mm Hg)	755	a) Rated	-
Velocity of Gas flow (m/s)	8.61	b) Running	-
Quantity of Gas flow (Nm³/hr)	1572.67	Load	
Pressure	-	a) Rated	-
		b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm³)	1.2	IS 11255 (Part -I): 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	
03.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	CO₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

Prepared By: N. Mondal

Checked By: A. Mitra

For, INDICATIVE CONSULTANT INDIA

Parthab Ghosh
(Quality Manager)
Signatory Authority

INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-432 from the date of issue unless otherwise specified
 9. Location of Testing: Haldia Laboratory

End of Report

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TEST REPORT

Date: 12.11.2022	Report No: ICI/HIA/RN-932/2022	Format No: ICI/FM/HI/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmari, Ayma, P.O.-Haristara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Tanukath Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:00 AM to 06:00 PM	06:15 PM to 02:15 AM	02:30 AM to 10:30 AM		
1	Respirable Particulate Matter (PM ₁₀)	µg / m ³	81.53	93.21	87.28	87.34	IS 5182 (Part - 23):2006 (RA 2017)
2	Respirable Particulate Matter (PM _{2.5})	µg / m ³	25.28	31.73	27.98	28.33	IS 5182 (Part - 24):2019
3	Sulphur Dioxide (SO ₂)	µg / m ³	15.51	21.71	17.58	18.27	IS 5182 (Part - 2):2001 (RA 2017)
4	Oxides of Nitrogen (NO _x)	µg / m ³	38.15	43.60	39.06	40.27	IS 5182 (Part - 6):2006 (RA 2017)
5	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7	Ammonia (NH ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8	Ozone (O ₃)	µg / m ³	41.3	-	-	41.3	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9	Carbon Monoxide (CO)	mg / m ³	0.2711	0.3492	0.3611	0.3271	Non-Dispersive Infrared Spectrometry Method
10	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13	Ambient Temperature (Average)	°C	27.0	24.0	22.0	24.0	Hygrometer

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

PM₁₀=100 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO_x=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 18th November 2009

Prepared By: N. Mondal

Checked By: A. Mitra

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
(Quality Manager)
Signatory Authority

INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 12.11.2022	Report No: ICI/HL/A/RN-933/2022	Format No: ICI/FM/061
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmura, Azma, P.O. Haratara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KHG/PCR/0217/22-23, Dtd. 10.05.2022	Analysis complete Date
#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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:30 AM to 06:30 PM	06:45 PM to 02:45 AM	03:00 AM to 11:00 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	82.44	95.19	87.63	88.42	IS 5182 (Part - 23):2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	25.67	36.10	29.91	30.56	IS 5182 (Part - 24):2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	15.51	25.85	19.64	20.33	IS 5182 (Part - 2):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	37.42	42.69	39.06	39.72	IS 5182 (Part - 6):2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7.	Ammonia (NH ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	41.9	-	-	41.9	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2875	0.3392	0.3411	0.3226	Non-Dispersive Infrared Spectrometry Method
10.	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	30.0	24.0	23.0	26.0	Hygrometer

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

PM₁₀=100 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO_x=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 18th November 2009

Prepared By: A. Mandal

Checked By: A. Mandal

For, INDICATIVE CONSULTANT INDIA

Parbajit Singh
(Quality Manager)
Signature Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

Parbajit Singh
Quality Manager
INDICATIVE CONSULTANT INDIA

- Note:
1. Information provided by customer.
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: N4
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test reports are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
 8. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 12.11.2022	Report No: ICI/HL/A/RN-934/2022	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmari, Ayma, P.O.-Haritara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:15 AM to 06:15 PM	06:30 PM to 02:30 AM	02:45 AM to 10:45 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	81.19	90.52	84.23	85.31	IS 5182 (Part - 23):2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	23.31	33.51	30.46	29.09	IS 5182 (Part - 24):2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	17.58	25.85	18.61	20.68	IS 5182 (Part - 2):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	38.15	44.51	39.97	40.88	IS 5182 (Part - 6):2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol. 1) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7.	Ammonia (NH ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	42.1	-	-	42.1	Guidelines for Measurement of ambient air pollutant (Vol. 1) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2911	0.3473	0.3911	0.3432	Non-Dispersive Infrared Spectrometry Method
10.	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	30.0	24.0	22.0	25.0	Hygrometer

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

PM₁₀= 100 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO_x=80 µg/m³, Lead=1.0 µg/m³, Ammonia=400 µg/m³, 24 hours limit, Carbon mono oxide=2 mg/m³, O₃=100 µg/m³, 8 hours limit, Benzene=5 µg/m³, Benzopyrene=1 ng/m³, Arsenic=6 ng/m³, Nickel=20 ng/m³, Annual limit. 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. Choudhary

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
(Quality Manager)
Signatory Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
- * Information provided by customer.
 - Sample is drawn by M/s. Indicative Consultant India.
 - Sample submitted and identified by customer as: NA
 - 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.
 - Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
 - Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 - Location of Testing : Haldia Laboratory

End of Report

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TEST REPORT

Date: 12.11.2022	Report No: ICI/HL/ARN-935/2022	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/AC-935
Address	Dewangan, Ayma, P.O.-Haritara, P.S.-Khuragpur, Paschim Medinipur, PIN - 721304	Sampling Date : 04.11.2022 to 05.11.2022
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date : 08.11.2022
Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis complete Date : 11.11.2022
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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:45 AM to 06:45 PM	06:55 PM to 02:55 AM	03:05 AM to 11:05 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	70.29	79.71	73.10	74.37	IS 5182 (Part - 23):2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	22.03	31.98	27.26	27.09	IS 5182 (Part - 24) 2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	16.54	22.75	17.58	18.96	IS 5182 (Part - 2):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	34.52	39.06	35.43	36.34	IS 5182 (Part - 6):2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7.	Ammonia (N ₂ H ₄)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	41.1	-	-	41.1	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2795	0.3221	0.3392	0.3136	Non-Dispersive Infrared Spectrometry Method
10.	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	29.0	25.0	22.0	25.0	Hygrometer

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

PM₁₀= 100 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO_x=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 18th November 2009

Prepared By: N. Mondal

Checked By: A. Mitra

For, INDICATIVE CONSULTANT INDIA

Parbat Kumar
(Quality Manager)

Parbat Kumar
Signature Authority

Quality Manager

INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

Note:

- Information provided by customer.
- Sample is drawn by M/s. Indicative Consultant India.
- Sample submitted and identified by customer as: NA
- 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.
- Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
- Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
- Location of Testing : Haldia Laboratory

End of Report

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TEST REPORT

Date: 15.11.2022	Report No: ICI/HL/W/RN-1826/2022	Format No: ICI/FM/11/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/W-1826
Address	Dewanmaro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 04.11.2022
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Sampling Time : 12:30 PM
		Analysis Start Date : 05.11.2022
		Analysis complete Date : 14.11.2022
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	
#Sample Description	DRINKING WATER	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part 1): 1987 (RA 2019), APHA 23 rd ed 2017	
# Location	INSIDE OF THE PLANT	
Material Specification	IS 10500: 2012	

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 25°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	193.9	-	-	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	124.0	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	50.9	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	35.6	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness (as CaCO ₃)	mg/L	15.3	-	-	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	3.7	30 (Max)	100 (Max)	IS:3025(Part-46):1994- RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride (as Cl)	mg/L	17.4	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	46.8	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	46.8	-	-	APHA 23 rd Edition 2320B
17.	Iron (as Fe)	mg/L	0.06	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	16.5	200 (Max)	400 (Max)	IS:3025(Part-24):1986- RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E

Babati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Page: 1 of 2



INDICATIVE CONSULTANT INDIA



(GOVT. REGISTERED TEST HOUSE)



9001:2015

45001:2018

indicativeconsultantindia@gmail.com / indicativeconsultantindia.kol@gmail.com

Report No: ICIHL/W/RN-1826/2022

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
18.	Phosphate (as P)	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
19.	Silica (as SiO ₂)	mg/L	19.8	-	-	IS 3025(Part-35):1988, RA 2019 APHA 23 rd Edition 4500 SiO ₂ -C
20.	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
21.	Manganese (as Mn)	mg/L	<0.1	0.1 (Max)	0.3 (Max)	APHA 23 rd Edition 3111 B
PARAMETERS CONCERNING TOXIC SUBSTANCES						
22.	Arsenic (as As)	mg/L	<0.01	0.01 (Max)	0.05 (Max)	APHA 23 rd Edition 3500As B

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
BACTERIOLOGICAL PARAMETERS						
1.	Total Coliform	MPN/100 ml	BDL	Shall not be detectable in any 100 ml of sample	-	IS 1622-1981 (RA 2019)
2.	E. Coli	CFU/100ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS 1622-1981 (RA 2019)

BDL = Below Detection Limit (D.L for Total coliform is 2 MPN/100 ml)

Remarks:

- 1) Chemical test Parameters: Compliance – The above-mentioned test parameters are within 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

Prepared by: N. Mondal

Checked by: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Ghosh
(Quality Manager)
Signature Authority
Parbati Ghosh
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

1. = Information provided by customer
2. Sample is drawn by M.T. Indicative Consultant India
3. Sample submitted and identified by customer as: N.A.
4. Test results shown in this test report relate only to the sample tag only
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions
6. The reproduction of the report except in full is invalid without written approval of the laboratory
7. Once issued, the test report certificate is of public domain and laboratory is not responsible for the authenticity of photocopied test report
8. Retention period of tested samples (if any) is 10 days from the date of issue of test report unless otherwise specified
9. Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1

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: 15.11.2022	Report No: ICI/HL/W/RN-1827/2022	Format No: ICI/FM/H/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2022/W-1827
Address	Dewanmuro, Aynia, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 04.11.2022
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No: +91-70 63511804	Sampling Time : 01:00 PM
Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 05.11.2022
Sample Description	DRINKING WATER	Analysis complete Date : 14.11.2022
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS-3025 (Part-1)-1987 (RA 2019), APHA 23 rd Ed 2017	
Location	GUEST HOUSE	
Material Specification	IS 10500: 2012	

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	-	-	Visual
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS-3025(Part-5) 2018 APHA 23 rd Edition 2150 B
3.	pH (at 25°C)	-	6.54	6.5 to 8.5	No Relaxation	IS-3025(Part-11) 1983 RA 2017 APHA 23 rd Edition 4500-11 B
4.	Colour	Hazen Unit	<5.0	5	15	IS-3025(Part-4) 1983 RA 2017
5.	Conductivity	µS/cm	190.4	-	-	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	50.9	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	35.6	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness (as CaCO ₃)	mg/L	15.3	-	-	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 3500C _a B
12.	Magnesium (as Mg)	mg/L	3.7	30 (Max)	100 (Max)	IS-3025(Part-46) 1994 RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride (as Cl)	mg/L	14.9	250 (Max)	1000 (Max)	IS-3025(Part-32) 1988 RA 2019 APHA 23 rd Edition 4500C _l B
14.	Total Alkalinity (as CaCO ₃)	mg/L	41.6	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	41.6	-	-	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	16.5	200 (Max)	400 (Max)	IS-3025(Part-24) 1986 RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E



Report No: ICI/HL/W/RN-1827/2022

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 4500 P D
20	Silica (as SiO ₂)	mg/L	20.7	-	-	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 3501 As B

Sl No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
BACTERIOLOGICAL PARAMETERS						
1	Total Coliform	MPN/100 ml	BDL	Shall not be detectable in any 100 ml of sample	-	IS 1622 1981 (RA 2019)
2	E. Coli	CFU/100ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS 1622 1981 (RA 2019)

BDL = Below Detection Limit (D.L for Total coliform is 2 MPN/100 ml)

Remarks:

1. Chemical test Parameters: **Compliance** – The above mentioned test parameters are within 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.C. Patra

Parbati Goudi
(Quality Manager)
Signatory Authority
Parbati Goudi
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Notes:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India
 3. Sample submitted and identified by customer as: N/A
 4. Test results shown in this test report relate only to the sample test only
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions
 6. The reproduction of the report except in full is invalid without written approval of the laboratory
 7. Once issued, the test report certificate is in public domain and laboratory is not responsible for the authenticity of photocopy of test report
 8. Retention period of tested samples (if any) is 10 days from the date of issue of test report unless otherwise specified
 9. Location of Testing: Haldia Laboratory

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



TEST REPORT

Date: 09.11.2022	Report No: ICI/HILN/TC-200/2022	Format No: ICI/FM/H/68
Customer Name	M/s. RAMCO INDUSTRIES LTD.	
Address	Dewanmari, Ayma, P.O.-Harintara, P.S.-Kharagpur, Paschim Medinipur.	
#Customer Representative Name & Contact No.	Mr. Taraknath Bose Mob. No. 70 63511804	
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	
#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-1080	04.11.2022	10:20 AM	54.87	56.8	52.0	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-1081	04.11.2022	10:50 AM	63.06	64.8	60.1	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-1082	04.11.2022	11:30 AM	61.40	63.5	58.8	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-1083	04.11.2022	12:00 PM	62.86	64.9	60.6	As per note

*Note:

NOISE STANDARD

Area Code	Category of Area/ Zone	Limits dB (A) Leg	
		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
Parbati G. G. S.
Quality Manager
INDICATIVE CONSULTANT INDIA
Signatory Authority

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

- Note: 1. * Information provided by customer
2. Sample is drawn by M/s. Indicative Consultant India
3. Sample submitted and identified by customer as: N.A.
4. Test results shown in this test report relate only to the sample (s) only
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
6. Noise data was recorded at the customer site in presence of customer's representative.
7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
8. The reproduction of the report except in full is invalid without written approval of the laboratory
9. Location of Testing: Plant Site & Report was generated from Haldia Laboratory



TEST REPORT

Date: 09.11.2022	Report No: ICI/HL/N/TC-201/2022	Format No: ICI/FM/II/68
Customer Name	M/s. RAMCO INDUSTRIES LTD.	
Address	Dewanmuro, 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/0217/22-23, Dtd. 10.05.2022	
#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-1084	04.11.2022	02:10 PM	78.60	79.9	77.5	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-1085	04.11.2022	02:40 PM	78.28	80.5	76.4	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-1086	04.11.2022	03:15 PM	77.79	79.5	75.2	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-1087	04.11.2022	03:45 PM	80.41	81.6	78.6	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

Parbati Gouda
Quality Manager
INDICATIVE CONSULTANT INDIA
Signature Authority

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

- Notes:
- # Information provided by customer
 - 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.
 - Noise data was recorded at the customer site in presence of customer's representative.
 - Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 - The reproduction of the report except in full is invalid without written approval of the laboratory
 - Location of Testing: Plant Site & Report was generated from Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

FORMAT NO.: ENV/PM/20

Name of the Industry	: Ranico Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewannaro Ayana, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/I
		Report No.	: ENV/21/Dec./TR(A)/1/22-23

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	LIMIT
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	: 38.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	: 16.12	N.A.
4.	Quantity of Gas flow	Nm³/hr.	IS: 11255 (Part III)	: 6959.97	N.A.
5.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1): 2019 & ASTM D 3685/D 3685M-98 [reapproved 2005]: Sec. 11 (Vol.11.07): 2017	: 1.75	2.0

Remarks : Limit as per CPCB (Emission Regulation Part IV: COMDS/26/1986-87),
 : N.A. means Not Available.
 : Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Authorised Signatory:

[Signature]



TEST REPORT

FORMAT NO.: ENV/PM/39

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewannara Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/I
		Report No.	: ENV/21/Dec./TR(A)/1/22-23

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	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 38.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 16.12	N.A.
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	: 6959.97	N.A.
5.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 [reapproved 2005] : Sec. 11 (Vol.11.07) : 2017	: 1.75	2.0

Remarks : Limit as per CPCB (Emission Regulation Part IV : COMDS/26/1996-87),
 : N.A. means Not Available.
 : Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Authorised Signatory:

[Signature]



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. - Dewanmoro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/II
		Report No.	: ENV/21/Dec./TR(A)/II/22-23
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached 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	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part I)	33.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	13.23	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	3267.92	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	1.61	2.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COMD5/26/1986-87].
 : N.A. means Not Available.
 : Result relates only to the sample tested.

Reviewed By:

Indrani Chatterjee

Authorised Signatory:

[Signature]

TEST REPORT

FORMAT NO.: ENV/EM/30

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	:	09.12.2022			
	Period of Analysis		:	10.12.2022 - 12.12.2022				
	Date of Issue		:	14.12.2022				
Sampling Plan & Procedure	:	ENV/SOP/01	Deviation from the Sampling Method and Plan	:	No	Type of Sample	:	Stack Emission
Sample Condition	:	Sealed	Sample ID No.	:	ENV/21/Dec./A/III	Report No.	:	ENV/21/Dec./TR(A)/III/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	:	Pulverizer Section (No.1)		
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.)	: 0.254
Capacity	:	Rated = 02 Ton/hr. (Running = 02 Ton/hr.)	Height of sampling port (mtr.) (from G.L.)	: 4.572
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	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	42.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	12.89	N.A.
4.	Quantity of Gas flow	Nm ³ /hr	IS : 11255 (Part III)	2213.84	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	1.82	2.0

Remarks :	Limit as per CPCB (Emission Regulation Part IV : GRIIDS/26/1986-B7).
:	N.A means Not Available.
:	Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

Authorised Signatory:

Andrew

$\frac{d}{dt} \left(\frac{\partial L}{\partial \dot{x}} \right) = \frac{\partial L}{\partial x}$



TEST REPORT

FORMAT NO.: ENV/PM/30

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmari Ayina, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/IV
		Report No.	: ENV/21/Dec./TR(A)/IV/22-23
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: D. G. Sec - 725 KVA	Height of Stack (mtr.) (from G. L.)	: 12.50
Shape of Stack	: Circular	Stack I.D. at sampling point (mtr.)	: 0.20
Materials of Construction	: M.S.	Height of sampling port (mtr.) (from G.L.)	: 8.40
Capacity	: 725 KVA		
Emission Due to	: Combustion of H.S.D	Permanent Platform & Ladder	: Yes
Fuel Used	: H.S.D		
Working Fuel Consumption	: 145 liter/hr.		
Pollution Control Device	: Nil		

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 208.0	N.A.
2.	Barometric Pressure	mm of Hg	"	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 15.68	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 1093.05	N.A.
5.	Concentration of SO ₂	mg/Nm ³	IS 11255 (Part 2) : 2019	: 80.50	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 8.4	N.A.
7.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 67.06	150.0

Remarks : Limit as per CPCB [Emission Regulation Part IV : COMUS/26/1986-87]
 : N.A. means Not Available.
 : Result relates only to the sample tested.

Reviewed By :

Authorised Signatory :



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. - Dewanmoro Aynna, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022 - 10.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/V
		Report No.	: ENV/21/Dec./TR(A)/V/22-23
		Type of Sample	: Ambient Air

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) : 21.0
2. Average Relative Humidity (%) : 48.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C] RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	56.27	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	89.22	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	16.45	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	36.23	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.42	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo [a] Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene [C ₆ H ₆]	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part 9) : 2019	<10.0	100.0
10.	Ammonia [NH ₃]	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23 rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 19th November, 2009.
Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Authorised Signatory:

Indrani

By Signature of Indrani
14/12/2022



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. - Dewannaru Ayana, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022 - 10.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/VI
		Report No.	: ENV/21/Dec./TR(A)/VI/22-23

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) : 21.0
2. Average Relative Humidity (%) : 48.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	53.75	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	84.12	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	11.53	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	28.20	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.36	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
Result relates only to the sample tested.

Reviewed By:

Indrani Ballacharya

Authorised Signatory:

Indrani Ballacharya



TEST REPORT

FORMAT NO.: ENV/EM/37

Name of the Industry	: Rama Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewannara Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022 - 10.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/VII
		Report No.	: ENV/21/Dec./TR(A)/VII/22-23

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) : 21.0
2. Average Relative Humidity (%) : 48.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM ₁₀ s	µg/m ³	IS 5182 (Part 24) : 2019	56.25	60.0
2.	Concentration of PM ₁₀ s	µg/m ³	IS 5182 (PART 23) : 2019	93.08	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	14.31	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	31.95	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.39	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA 10 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA 10 3.2, 1999 & APHA 23-6 Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
Result relates only to the sample tested.

Reviewed By:

Indrani Pallickar

Authorised Signatory:

Indrani Pallickar



TEST REPORT

FORMAT NO.: ENV/EM/37

Name of the Industry	: Ramaa Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewannara Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022 - 10.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 14.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/21/Dec./A/VII
		Report No.	: ENV/21/Dec./TR(A)/VII/22-23

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) : 21.0
2. Average Relative Humidity (%) : 48.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM ₁₀ s	µg/m ³	IS 5182 (Part 24) : 2019	56.25	60.0
2.	Concentration of PM ₁₀ s	µg/m ³	IS 5182 (PART 23) : 2019	93.08	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 [Vol. 11.07] : 2017	14.31	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 [Vol. 11.07] : 2018	31.95	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.39	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 [Vol. 11.07] : 2021/ASTM D 6209-98, Sec. 11 [Vol. 11.07] : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 [Vol. 11.07] : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23- rd Ed 3114C : 2017	<0.01	5.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
Result relates only to the sample tested.

Reviewed By:

Authorised Signatory:



TEST REPORT

FORMAT NO.: ENV/PM/17

Name of the Industry	Ramco Industries Ltd.	Type of Industry	Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	Vill. - Dewannara Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	09.12.2022 - 10.12.2022
		Period of Analysis	10.12.2022 - 12.12.2022
		Date of Issue	14.12.2022
Sampling Plan & Procedure	ENV/SOP/01	Deviation from the Sampling Method and Plan	No
Sample Condition	Sealed	Sample ID No.	ENV/21/Dec./A/VIII
		Report No.	ENV/21/Dec./TR(A)/VIII/22-23

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) : 21.0
2. Average Relative Humidity (%) : 48.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	51.29	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	80.11	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	8.12	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	30.04	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.32	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 19th November, 2009.
Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Authorised Signatory:

Dr. S. K. Das

<End of Report>



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/53

TEST REPORT

Name of Industry / Company / Factory / Office	Ramco Industries Limited
Address	Village - Dewannara Ayma, P.O. - Hariatara, P.S. - Kharagpur, District - Paschim Medinipur, Pin- 721301.
Type of Industry	Asbestos Cement Corrugated & Accessories Manufacturing Unit
Sampling Plan & Procedure	ENV/SOP/02
Deviation from the Sampling Method & Plan	No
Type of Sample	Noise Level Study
Sample ID	ENV/06/Dec/N
Date of Study	09/12/2022
Method No.	IS 15575 (Part 2), 2022
Sample Monitored by	Mr. Paup Hazra
Report ID	ENV/06/Dec/(TR)/N/22-23
Reporting Date	21/12/2022
Time of Duration of Noise	20 Minutes
Height from Ground Level	4 Feet

RESULT OF NOISE LEVEL STUDY

Sl. No.	Location Name	dB (A) - [Noise Data]										Time (Hours)	Min dB (A)	Max dB (A)	Leq dB (A)	Limit in Leq dB(A)
1	Near Main Gate	49.6	50.7	52.8	53.9	54.7	55.8	49.2	48.7	49.3	51.4	10:30 - 10:50 A.M (Day Time)	46.7	55.8	52.31	A. Industrial Area (Day Time - 75.0) (Night Time - 70.0)
2	Near Main Gate	44.8	47.2	43.5	42.8	43.1	42.9	40.4	45.4	45.9	46.5	10:00 - 10:20 P.M (Night Time)	40.4	48.9	45.22	
3	Near Stock Yard	53.5	55.9	61.2	60.5	64.7	59.7	60.1	59.3	64.1	63.2	11:00 - 11:20 A.M (Day Time)	59.7	68.5	63.99	B. Commercial Area (Day Time - 65.0) (Night Time - 55.0)
4	Near Stock Yard	55.4	56.7	61.7	62.1	60.1	53.4	55.9	50.7	50.1	61.5	10:30 - 10:50 P.M (Night Time)	50.7	62.1	59.06	
5	Near Scrap Yard	63.4	65.8	66.7	67.4	62.7	66.5	64.8	63.9	65.2	62.9	11:30 - 11:50 A.M (Day Time)	62.7	67.4	65.21	C. Residential Area (Day Time - 55.0) (Night Time - 45.0)
6	Near Scrap Yard	51.2	53.8	54.5	54.7	53.9	49.4	50.1	51.5	49.5	50.4	11:00 - 11:20 P.M (Night Time)	49.4	54.7	52.36	
7	Back side of the Plant	65.9	66.8	69.2	64.5	67.4	68.2	58.4	67.4	66.2	65.2	12:00 - 12:30 P.M (Day Time)	64.5	69.2	67.14	
8	Back side of the Plant	56.3	58.4	59.7	56.6	55.2	57.5	55.1	58.3	57.4	55.9	11:30 - 11:50 P.M (Night Time)	55.2	59.7	57.70	D. Silent Zone (Day Time - 50.0) (Night Time - 40.0)

> End of Report <

** Mean of Leq - Equivalent to Sound Energy		** Central Pollution Control Board, Ministry of Environment & Forests Government of India & Department of Environment, Government of West Bengal	
		** 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
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS / Source: The Noise Pollution (Regulation and Control) Rules, 2000			
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:

Indrani Bhattacharya

Approved By:

Biswajit



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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. - Dewanmari Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 20.12.2022
		Date of Issue	: 22.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Location	: Tap of Quality Control Lab
		ULR No.	: TC601422000000370P
		Type of Sample	: Drinking Water

PARAMETERS		METHOD	UNIT	RESULTS	LIMIT (IS 10500:2012)	
					Acceptable	Permissible
1.	Colour	IS 3025 (Part 4) : 2021	Hazen	1.0	5.0	15.0
2.	Odour	IS 3025 (Part 5) : 2018	--	Odourless	Agreeable	Agreeable
3.	pH	IS 3025 (Part 11) : 2022	--	6.72	6.5-8.5	No Relaxation
4.	Taste	IS 3025 (Part 4) : 2021	--	Acceptable	Agreeable	Agreeable
5.	Turbidity	IS 3025 (Part 10) : 2017	NTU	<1.0	1.0	5.0
6.	Total Dissolved Solids	IS 3025 (Part 16) : 2017	mg./l	124.0	500.0	2000.0
7.	Aluminium	IS 15302 : 2018	mg./l	<0.02	0.03	0.2
8.	Calcium	IS 3025 (Part 40) : 2019	mg./l	20.84	75.0	200.0
9.	Chloride	IS 3025 (Part 32) : 2019	mg./l	14.0	250.0	1000.0
10.	Iron	IS 3025 (Part 53) : 2019	mg./l	0.05	1.0*	No Relaxation
11.	Magnesium	IS 3025 (Part 46) : 2019	mg./l	5.76	30.0	100.0
12.	Manganese	IS 3025 (Part 59) : 2017	mg./l	<0.05	0.1	0.3
13.	Nitrate	IS 3025 (Part 34) : 2019	mg./l	1.60	45.0	No Relaxation
14.	Sulfate	IS 3025 (Part 24) Sec. 1 : 2022	mg./l	32.50	200.0	400.0
15.	Total Alkalinity	IS 3025 (Part 23) : 2019	mg./l	44.0	200.0	600.0
16.	Total Hardness (as CaCO ₃)	IS 3025 (Part 21) : 2019	mg./l	76.0	200.0	600.0
17.	Zinc	IS 3025 (Part 49) : 2019	mg./l	0.03	5.0	15.0
18.	Mercury	IS 3025 (Part 48) : 2019	mg./l	<0.001	0.001	No Relaxation
19.	Arsenic	IS 3025 (Part 37) : 2019	mg./l	<0.01	0.01	No Relaxation*
20.	Chromium	IS 3025 (Part 52) : 2017	mg./l	<0.02	N.A.	N.A.
21.	Silica	APHA 2374 Ed., 4500 SiO ₂ -C/F : 2017	mg./l	4.30	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.

d) Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Dr. Indrani BHATTACHARYA
Dr. Technical Manager - Quality

Approved By:

Bhattacharya
Dr. Indrani BHATTACHARYA
Technical Manager



ENVIROCHECK



FORMAT NO. ENV/PM/55

TEST REPORT

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	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 22.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Quality Control Lab
		ULR No.	: TC601422000000370P

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.

c) Result relates only to the sample tested.

Reviewed By :

Dr. AJAY PAUL
Quality Manager

Approved By :

SECONDARY
Technical Manager



ENVIROCHECK



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. - Dewannaro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 20.12.2022
		Date of Issue	: 22.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Location	: Tap of Guest House
		HLR No.	: TC601422000000350P
		Type of Sample	: Drinking Water

PARAMETERS		METHOD	UNIT	RESULTS	LIMIT (IS 10500 : 2012)	
					Acceptable	Permissible
1.	Colour	IS 3025 (Part 4) : 2021	Hazen	1.0	5.0	15.0
2.	Odour	IS 3025 (Part 5) : 2018	--	Odourless	Agreeable	Agreeable
3.	pH	IS 3025 (Part 11) : 2022	--	6.42	6.5-8.5	No Relaxation
4.	Taste	IS 3025 (Part 4) : 2021	--	Acceptable	Agreeable	Agreeable
5.	Turbidity	IS 3025 (Part 10) : 2017	NTU	<1.0	1.0	5.0
6.	Total Dissolved Solids	IS 3025 (Part 16) : 2017	mg/l	112.0	500.0	2000.0
7.	Aluminium	IS 15302 : 2018	mg/l	0.03	0.03	0.2
8.	Calcium	IS 3025 (Part 40) : 2019	mg/l	19.23	75.0	200.0
9.	Chloride	IS 3025 (Part 32) : 2019	mg/l	12.0	250.0	1000.0
10.	Iron	IS 3025 (Part 53) : 2019	mg/l	<0.05	1.0*	No Relaxation
11.	Magnesium	IS 3025 (Part 46) : 2019	mg/l	3.84	30.0	100.0
12.	Manganese	IS 3025 (Part 59) : 2017	mg/l	<0.05	0.1	0.3
13.	Nitrate	IS 3025 (Part 34) : 2019	mg/l	1.20	45.0	No Relaxation
14.	Sulfate	IS 3025 (Part 24) Sec. 1 : 2022	mg/l	12.50	200.0	400.0
15.	Total Alkalinity	IS 3025 (Part 23) : 2019	mg/l	64.0	200.0	600.0
16.	Total Hardness (as CaCO ₃)	IS 3025 (Part 21) : 2019	mg/l	40.0	200.0	600.0
17.	Zinc	IS 3025 (Part 49) : 2019	mg/l	0.13	5.0	15.0
18.	Mercury	IS 3025 (Part 48) : 2019	mg/l	<0.001	0.001	No Relaxation
19.	Arsenic	IS 3025 (Part 37) : 2019	mg/l	<0.01	0.01	No Relaxation*
20.	Chromium	IS 3025 (Part 52) : 2017	mg/l	<0.02	N.A.	N.A.
21.	Silica	APHA 23 rd Ed., 4500 SiO ₂ -C/F : 2017	mg/l	1.60	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.

d) Result relates only to the sample tested.

Reviewed By:

INDRANI BHATTACHARYA
By Director, Kharagpur Office.

Approved By:

SUDIP K. CHOWDHURY
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. - Dewanmari Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 12.12.2022
		Date of Issue	: 22.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Guest House
		ULR No.	: TC601422000000371P

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.

c) Result relates only to the sample tested.

Reviewed By :

Dr. ADITY PAUL
Quality Manager

Approved By :

Dr. CHANDRAN
Technical Manager



FORMAT NO. ENV/FM/40

TEST REPORT

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	: 09.12.2022
		Period of Analysis	: 10.12.2022 - 13.12.2022
		Date of Issue	: 15.12.2022
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Location	: Septic Tank Outlet (Canteen Side)	Sample Condition	: Scaled
		Type of Sample	: Domestic Effluent Water (Grab)
		Sample ID No.	: ENV/04/Dec./W
Report No.	: ENV/04/Dec./TR(W)/22-23		

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H+B APHA 23 rd Edition, 2017	--	6.89	5.5 - 9.0
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	30.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	4.0	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	70.0	250.0
5.	Biochemical Oxygen Demand for 3 days at 27°C	5210 B APHA 23 rd Edition, 2017	mg/l	26.0	30.0

(Remarks: a) Limit as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.
b) Results relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA, JAWA
ANALYST, ENVIRONMENTAL CHEMISTRY

Authorised Signatory :

Dr. S. K. Ghosh
DR. S. K. GHOSH, JAWA
Technical Manager

<End of Report>



TEST REPORT

Date: 07.01.2023	Report No: ICI/HLA/TC-001/2023	Format No: ICI/PM/II/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/A-001
Address	Dewanmura, Ayra, P.O.-Harintara, P.S.-Kharagpur, Paschim Medinipur. PIN - 721304	Sampling Date : 03.01.2023
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. -91-7063511804	Sampling Time : 10:10 AM
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 06.01.2023
#Sample Description	STACK AIR	Analysis complete Date : 06.01.2023
#Location	EDGE RUNNER MILL BOD & SLURRY MIXING	
Sample Condition	In Glass Microfiber Thimble	
Sampling Method	CPCB, Emission Regulation (Part III)	

A.] # GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	EDGE RUNNER MILL BOD & SLURRY MIXING	Shape of Stack	Circular
Stack attached to	Process Activity	Material of Construction	M.S
Emission due to		Stack ID at sampling point (M)	0.30
Fuel Used		At Bottom (M)	-
Rated Fuel Consumption		At Top (M)	0.30
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)	8.40
Pollution Control Device	Bag Filter & Wet Scrubber	d) Ht. of port from disturbance zone (M)	-
Whether Stack is provided with permanent Platform / Ladder / Yes			

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	31	Steam Generation Capacity:	
Barometric Pressure,(mm Hg)	756	a) Rated	-
Velocity of Gas flow (m/s)	8.91	b) Running	-
Quantity of Gas flow (Nm³/hr)	2187.63	Load a) Rated	-
Pressure	-	b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm³)	1.6	IS 11255 (Part -1) 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	
03.	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	CO₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

For. INDICATIVE CONSULTANT INDIA

Prepared By: S. Mondal

Checked By: A. Patra

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test reports are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test reports/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Thimbles) is 180 days from the date of issue unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 07.01.2023	Report No: ICI/HL/A/TC-002/2023	Format No: ICI/FM/II/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmari, Ayma, P.O. - Hariatara, P.S. - Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Sampling Time
#Work Order No.	KHG/POB/0217/22-23, Dtd. 10.05.2022	Analysis Start Date
#Sample Description	STACK AIR	Analysis complete Date
#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	CEMENT & FLY ASH FEEDING SECTION	Shape of Stack	Circular
Stack attached to	Feeding of Raw Material	Material of Construction	M.S
Emission due to		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)	15.00
Sulphur Content (% by Wt)	-	b) Total Ht. Of stack from RL(M)	-
Ash Content (% by Wt)	-	c) Ht. of sampling port from GL(M)	8.40
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)	9.36	b) Running	-
Quantity of Gas flow (Nm³/hr)	4144.84	Load: a) Rated	-
Pressure	-	b) Running	10 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01	Particulate Matter (mg/Nm³)	1.5	IS 11253 (Part -I): 1985 (RA 2019)
02	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	
03	CO % (V/V)	<0.2	IS 13270:1992 (RA 2019)
04	CO₂ % (V/V)	<0.2	IS 13270:1992 (RA 2019)

Prepared By: A. Mondal

Checked By: A. Mondal

For: INDICATIVE CONSULTANT INDIA

Parbati Golui
(Quality Manager)
Signatory Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

- Note:
- Information provided by customer
 - Sample is drawn by M/s. Indicative Consultant India.
 - Sample submitted and identified by customer as: NA
 - 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.
 - Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 - Retention period of tested samples (Thimbles) is 180 days from the date of issue unless otherwise specified.
 - Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 07.01.2023	Report No: ICI/HL/A/TC-003/2023	Format No: ICI/FM/11/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/A-003
Address	Dewanmari, Ayma, P.O.-Haristara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 03.01.2023
#Customer Representative Name & Contact Number	Mr. Tarakanth Bose Mob. No. +91-7063511804	Sampling Time : 12:30 PM
#Work Order No.	KHG/POB/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 06.01.2023
#Sample Description	STACK AIR	Analysis complete Date : 06.01.2023
#Location	PULVERIZER 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	PULVERIZER SECTION	Material of Construction	M.S.
Emission due to	Process Activity	Stack ID at sampling point (M)	0.26
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)	15.00
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)	35	Steam Generation Capacity:	
Barometric Pressure (mm Hg)	756	a) Rated	-
Velocity of Gas flow (m/s)	8.19	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	1502.64	Local a) Rated	-
Pressure	-	b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm ³)	1.5	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: *Amrindal*Checked By: *A. Patra*

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
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 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Thimbles) is 180 days from the date of issue unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

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

Page 1 of 1



TEST REPORT

Date: 12.01.2023	Report No: ICI/HLA/RN-015/2023	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/AC-015
Address	Dewanmari, Aynia, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 03.01.2023 to 04.01.2023
*Customer Representative Name & Contact Number	Mr. Tarakanath Bose Mob. No. +91-7063511804	Analysis Start Date : 06.01.2023
*Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis complete Date : 11.01.2023
*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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Specification	National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18 th November 2009	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			09:30 AM to 05:30 PM	05:45 PM to 01:45 AM	02:00 AM to 10:00 AM		
1	Respirable Particulate Matter (PM ₁₀)	µg / m ³	86.19	98.30	83.33	89.27	IS 5182 (Part - 23):2006 (RA 2017)
2	Respirable Particulate Matter (PM _{2.5})	µg / m ³	28.43	40.69	32.55	33.89	IS 5182 (Part - 24):2019
3	Sulphur Dioxide (SO ₂)	µg / m ³	17.58	20.68	19.64	19.30	IS 5182 (Part - 2):2001 (RA 2017)
4	Oxides of Nitrogen (NO _x)	µg / m ³	40.88	46.33	43.60	43.60	IS 5182 (Part - 6):2006 (RA 2017)
5	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7	Ammonia (NH ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8	Ozone (O ₃)	µg / m ³	41.3	-	-	41.3	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9	Carbon Monoxide (CO)	mg / m ³	0.2768	0.3284	0.3903	0.3318	Non-Dispersive Infrared Spectrometry Method
10	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13	Ambient Temperature (Average)	°C	23.0	18.0	15.0	19.0	Hygrometer

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

PM₁₀ = 100 µg/m³, PM_{2.5} = 60 µg/m³, SO₂ = 80 µg/m³, NO_x = 80 µg/m³, Lead = 1.0 µg/m³, Ammonia = 400 µg/m³, 24 hours basis, Carbon monoxide = 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 18th November 2009

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Gouda

Quality Manager

INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

Note:

- Information provided by customer
- Sample is drawn by M/s. Indicative Consultant India
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- Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



TEST REPORT

Date: 12.01.2023	Report No: ICI/HL/ARN-016/2023	Format No: ICI/TM/HL61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
Customer Representative Name & Contact Number	Mr. Tamkath Bose Mob. No. +91-7063511804	Analysis Start Date
Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis complete Date
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): Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Specification	National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi. Notification dated 18 th November 2009	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:00 AM to 06:00 PM	06:15 PM to 02:15 AM	02:30 AM to 10:30 AM		
1	Respirable Particulate Matter (PM ₁₀)	µg / m ³	82.44	95.14	87.32	88.30	IS 5182 (Part - 23):2006 (RA 2017)
2	Respirable Particulate Matter (PM _{2.5})	µg / m ³	29.83	38.07	32.89	33.60	IS 5182 (Part - 24):2019
3	Sulphur Dioxide (SO ₂)	µg / m ³	15.51	21.71	39.64	18.95	IS 5182 (Part - 2):2001 (RA 2017)
4	Oxides of Nitrogen (NO _x)	µg / m ³	38.15	42.69	40.88	40.57	IS 5182 (Part - 6):2006 (RA 2017)
5	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7	Ammonia (NH ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8	Ozone (O ₃)	µg / m ³	40.2	-	-	40.2	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9	Carbon Monoxide (CO)	mg / m ³	0.2826	0.3348	0.5502	0.3225	Non-Dispersive Infrared Spectrometry Method
10	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13	Ambient Temperature (Average)	°C	23.0	18.0	15.0	19.0	Hygrometer

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

PM₁₀ = 100 µg/m³, PM_{2.5} = 65 µg/m³, SO₂ = 80 µg/m³, NO_x = 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 18th November 2009

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA
Parbati Gohain
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Note:
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 - Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



indicativeconsultantindia@gmail.com / indicativeconsultantindia.kol@gmail.com

TEST REPORT

Date: 12.01.2023	Report No: ICI/HL/ARN-017/2023	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmari, Ayma, P.O.-Harizara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date
Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			09:45 AM to 05:45 PM	06:00 PM to 02:00 AM	02:15 AM to 10:15 AM		
1	Respirable Particulate Matter (PM ₁₀)	µg / m ³	82.26	91.38	78.64	84.09	IS 5182 (Part - 23):2006 (RA 2017)
2	Respirable Particulate Matter (PM _{2.5})	µg / m ³	30.34	36.63	29.63	32.20	IS 5182 (Part - 24):2019*
3	Sulphur Dioxide (SO ₂)	µg / m ³	18.51	24.81	19.64	21.02	IS 5182 (Part - 2):2001 (RA 2017)
4	Oxides of Nitrogen (NO ₂)	µg / m ³	39.06	44.51	38.15	40.57	IS 5182 (Part - 6):2006 (RA 2017)
5	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7	Ammonia (NH ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8	Ozone (O ₃)	µg / m ³	42.4	-	-	42.4	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9	Carbon Monoxide (CO)	mg / m ³	0.2958	0.3416	0.3904	0.3426	Non-Dispersive Infrared Spectrometry Method
10	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13	Ambient Temperature (Average)	°C	23.0	18.0	15.0	19.0	Hygrometer

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 18th November 2009

Prepared By: T. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA
Parbati Ghosh
Quality Manager
(Quality Manager)
INDICATIVE CONSULTANT INDIA
Signatory Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Note:
- Information provided by customer
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 - Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1

CENTRAL LABORATORY : HPL 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, Mob. : 7797245819, 7797506973

Towards Sustainable Growth



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



indicativeconsultantindia@gmail.com / indicativeconsultantindia.kol@gmail.com

TEST REPORT

Date: 12.01.2023	Report No: ICI/HIL/ARN-018/2023	Format No: ICI/FMH/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Haristara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date
Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:15 AM to 06:15 PM	06:30 PM to 02:30 AM	02:45 AM to 10:45 AM		
1	Respirable Particulate Matter (PM ₁₀)	µg / m ³	78.44	90.16	76.27	81.62	IS 5182 (Part - 23):2006 (RA 2017)
2	Respirable Particulate Matter (PM _{2.5})	µg / m ³	28.24	37.30	26.01	30.52	IS 5182 (Part - 24):2019
3	Sulphur Dioxide (SO ₂)	µg / m ³	17.58	22.75	15.51	18.61	IS 5182 (Part - 2):2001 (RA 2017)
4	Oxides of Nitrogen (NO _x)	µg / m ³	36.33	40.88	37.24	38.15	IS 5182 (Part - 6):2006 (RA 2017)
5	Lead (Pb)	µg / m ³	BDL	BDL	BDL	BDL	Guidelines for Measurement of ambient air pollutant (Vol. 1) NAAQMS/36/2012-13 Atomic AAS Method
6	Benzene (C ₆ H ₆)	µg / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 11):2006 (RA 2017)
7	Ammonia (N ₂ H ₃)	µg / m ³	BDL	BDL	BDL	BDL	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8	Ozone (O ₃)	µg / m ³	41.6	-	-	41.6	Guidelines for Measurement of ambient air pollutant (Vol. 1) NAAQMS/36/2012-13 (Chemical Method)
9	Carbon Monoxide (CO)	mg / m ³	0.2891	0.3079	0.3564	0.3178	Non-Dispersive Infrared Spectrometry Method
10	Benzo(a)Pyrene (BaP)	ng / m ³	BDL	BDL	BDL	BDL	IS 5182 (Part - 12):2004 (RA 2019)
11	Arsenic (As)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
12	Nickel (Ni)	ng / m ³	BDL	BDL	BDL	BDL	Atomic Absorption Spectrophotometric Method
13	Ambient Temperature (Average)	°C	23.0	18.0	15.0	19.0	Hygrometer

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

PM₁₀ = 100 µg/m³, PM_{2.5} = 60 µg/m³, SO₂ = 80 µg/m³, NO_x = 80 µg/m³, Lead = 1.0 µg/m³, Ammonia = 400 µg/m³, 24 hours basis, Carbon monoxide = 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 18th November 2009

Prepared by: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA
Parbati G. Mondal
Quality Manager
INDICATIVE CONSULTANT INDIA
Signature Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)

Estimated Uncertainty: Not Required

- Note:
- Information provided by customer
 - Sample is drawn by M/s. Indicative Consultant India
 - Sample submitted and identified by customer as: Nil
 - Test results shown in this test report relate only to the sample (s) only
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 - Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 - Location of Testing: Haldia Laboratory

End of Report

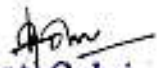
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TEST REPORT

Date: 14.01.2023	Report No: ICI/HL/W/RN-013/2023	Format No: ICI/FM/11/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/W-013
Address	Dewanmuro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur	Sampling Date : 03.01.2023
Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-70 63511804	Sampling Time : 01:35 PM
		Analysis Start Date : 04.01.2023
		Analysis complete Date : 13.01.2023
Mark Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	
Sample Description	DRINKING WATER	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part 1): 1987 (RA 2019), APHA 23 rd Ed 2017	
Location	INSIDE OF THE PLANT	
Material Specification	IS 10500: 2012	

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	-	-	Visual
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5): 2018 APHA 23 rd Edition 2150 B
3.	pH (at 20°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	203.31	-	-	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	100.0	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	47.8	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	26.5	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness (as CaCO ₃)	mg/L	21.3	-	-	APHA 23 rd Edition 2340 C
11.	Calcium (as Ca)	mg/L	10.6	75 (Max)	200 (Max)	IS 3025(Part-40): 1991 RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium (as Mg)	mg/L	5.2	30 (Max)	100 (Max)	IS 3025(Part-46): 1994 RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride (as Cl)	mg/L	9.9	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	35.0	200 (Max)	600 (Max)	IS 3025(Part-21): 1986 RA 2019 APHA 23 rd Edition 2520 B
15.	P-Alkalinity (as CaCO ₃)	mg/L	Nil	-	-	APHA 23 rd Edition 2320B
16.	M-Alkalinity (as CaCO ₃)	mg/L	35.0	-	-	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	15.5	200 (Max)	400 (Max)	IS 3025(Part-24): 1986 RA 2019 APHA 23 rd Edition 4500 SO ₄ E

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Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA



Report No: ICU/HL/W/RN-013/2023

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	19.0	-	-	IS 3025(Pan-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(Pan-60) 2008, RA 2019 APHA 23 rd Edition 4500 F D
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

Sl. No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
BACTERIOLOGICAL PARAMETERS						
1.	Total Coliform	MPN/100 ml	BDL	Shall not be detectable in any 100 ml of sample	-	IS: 1622 (1981) (RA 2019)
2.	E. Coli	CFU/100ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622 (1981) (RA 2019)

BDL = Below Detection Limit (D.L. = 1.8 MPN/100 ml)

Remarks:

1) Chemical test Parameters: Compliance - The above mentioned test parameters are within 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. Palra

Parbati Golui
(Quality Manager)
Signatory Authority
Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note: 1. Information provided by customer
2. Sample is drawn by M/s. Indicative Consultant India
3. Sample submitted and identified by customer as: N.A.
4. Test results shown in this test report relate only to the sample (s) only.
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
6. The reproduction of the report except in full is invalid without written approval of the laboratory.
7. Once issued, the test report certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
8. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.
9. Location of Testing: Haldia Laboratory

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

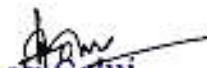


TEST REPORT

Date: 14.01.2023	: Report No: ICI/HIL/W/RN-014/2023	Format No: ICI/FM/H/67
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/W-014
Address	: Dewanmuro, Ayma, P.O.-Harialara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 03.01.2023
Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. +91-70 63511804	Sampling Time : 01:20 PM Analysis Start Date : 04.01.2023 Analysis complete Date : 13.01.2023
Work Order No.	: KHG/POB/0217/22-23, Dtd. 10.05.2022	
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	
Location	: GUEST HOUSE	
Material Specification	: IS 10500: 2012	

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	-	-	Visual
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS 3025(Part-5) 2018 APHA 23 rd Edition 2150 B
3.	pH (at 20°C)	-	6.55	6.5 to 8.5	No Relaxation	IS 3025(Part-11) 1983 RA 2017, APHA 23 rd Edition 4500-IT B
4.	Colour	Hazen Unit	<5.0	5	15	IS 3025(Part-4) 1983 RA 2017
5.	Conductivity	µS/cm	192.11	-	-	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	104.0	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	47.8	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	31.8	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness (as CaCO ₃)	mg/L	16.0	-	-	APHA 23 rd Edition 2340 C
11.	Calcium (as Ca)	mg/L	12.7	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	9.9	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	35.0	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	35.0	-	-	APHA 23 rd Edition 2320B
17.	Iron (as Fe)	mg/L	0.08	0.3 (Max)	No Relaxation	IS 3025(Part-31) 2003 RA 2019 APHA 23 rd Edition 3500-Fe B
18.	Sulfate (as SO ₄)	mg/L	13.5	200 (Max)	400 (Max)	IS 3025(Part-24) 1986 RA 2019 APHA 23 rd Edition 4500 SO ₄ F

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Parbati Gofui
Quality Manager
INDICATIVE CONSULTANT INDIA

INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



indicativeconsultantindia@gmail.com / indicativeconsultantindia.kol@gmail.com

Report No: IC/HL/W/RN-014/2023

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

Sl. No.	Parameters	Unit	Result	As Per IS: 10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
BACTERIOLOGICAL PARAMETERS						
1	Total Coliform	MPN/100 ml	BDL	Shall not be detectable in any 100 ml of sample	-	IS 1622 1981 (RA 2019)
2	E. Coli	CFU/100ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS 1622 1981 (RA 2019)

BDL = Below Detection Limit (D.L. - 1.8 MPN/100 ml)

Remarks:

1) Chemical test Parameters. Compliance - The above mentioned test parameters are within 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

Parbati Gouri
(Quality Manager)
Signature Authority
Parbati Gouri
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note: 1. Information provided by customer
2. Sample is drawn by M/s. Indicative Consultant India
3. Sample submitted and identified by customer as: N.A.
4. Test results shown in this test report relate only to the sample (s) only
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
6. The reproduction of the report except in full is invalid without written approval of the laboratory.
7. In case issued, the test report certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
8. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.
9. Location of Testing: Haldia Laboratory

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

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TEST REPORT

Date: 07.01.2023	Report No: ICI/HL/N/TC-001/2023	Format No: ICI/FM/11/68
Customer Name	M/s. RAMCO INDUSTRIES LTD.	
Address	Dewanmuro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur	
#Customer Representative Name & Contact No.	Mr. Tarakanth Bose Mob. No. 70 63511804	
#Work Order No.	KHG/POR/0217/22-23, Dtd: 10.05.2022	
#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 (Tt) : 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)
2023-N-001	03.01.2023	01:00 PM	79.83	81.2	78.3	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)
2023-N-002	03.01.2023	01:30 PM	80.49	81.7	78.6	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)
2023-N-003	03.01.2023	01:55 PM	79.52	81.3	77.6	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)
2023-N-004	03.01.2023	02:30 PM	82.10	83.5	80.4	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: A. Palra

Checked By: A. Palra

For, INDICATIVE CONSULTANT INDIA
Parbati Gola
Quality Manager
INDICATIVE CONSULTANT INDIA
Signatory Authority

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

- Note: 1. Information provided by customer
2. Sample is drawn by M/s. Indicative Consultant India
3. Sample submitted and identified by customer as: N/A
4. Test results shown in this test report relate only to the sample (s) only
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
6. Noise data was recorded at the customer site in presence of customer's representative
7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
8. The reproduction of the report except in full is invalid without written approval of the laboratory
9. Location of Testing: Plant Site & Report was generated from Haldia Laboratory



TEST REPORT

Date: 07.01.2023	Report No: ICI/HL/N/TC-002/2023	Format No: ICI/TC/HL/68
Customer Name	M/s. RAMCO INDUSTRIES LTD.	
Address	Dewanmari, Ayira, P.O.-Harintara, P.S.-Kharagpur, Paschim Medinipur.	
Customer Representative Name & Contact No.	Mr. Taraknath Bose Mob. No. 70 63511804	
Work Order No.	KHQ/POR/0217/22-23, Dtd. 10.05.2022	
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)
2023-N-005	03.01.2023	10:00 AM	52.55	53.8	51.4	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)
2023-N-006	03.01.2023	10:30 AM	62.01	63.3	60.4	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)
2023-N-007	03.01.2023	11:00 AM	57.61	58.8	56.5	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)
2023-N-008	03.01.2023	11:45 AM	64.03	64.8	62.9	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

by A. Patra

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA
Parbati Ghosh
Quality Manager
INDICATIVE CONSULTANT INDIA
(Quality Manager)
Signatory Authority

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

- Notes:
- Information provided by customer
 - 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.
 - Noise data was recorded at the customer site in presence of customer's representative.
 - Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 - The reproduction of the report except in full is invalid without written approval of the laboratory
 - Location of Testing: Plant Site & Report was generated from Haldia Laboratory

End of Report

Page 1 of 1



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. - Dewamare Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SQP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/1
		Report No.	: ENV/26/Feb./TR(A)/1/22-23

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.)	: 0.40
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	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 36.0	N.A.
2.	Barometric Pressure	mm of Hg.	—	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 11.66	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 5062.43	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 1.79	2.0

Remarks : Limit as per CPCB (Emission Regulation Part IV : COMDS/26/1985-87)
 : N.A. means Not Available.
 : Result relates only to the sample tested.

Reviewed By :

Indrani Chatterjee
 INDRANI CHATTERJEE
 Dy. Technical Manager, Chemical

Authorised Signatory :

Indrani Chatterjee
 INDRANI CHATTERJEE
 Technical Manager



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. - Dewannare Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/II
		Report No.	: ENV/26/Feb./TR(A)/II/22-23
		Type of Sample	: Stack Emission

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached 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	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 33.3	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 10.42	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS : 11255 (Part III)	: 2530.74	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 1.83	2.0

Remarks : Limit as per CPCB (Emission Regulation Part IV : COINDS/26/1986-87).
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By:

Indranil Bhattacharya

INDRANIL BHATTACHARYA
Dy. Technical Manager, General

Authorised Signatory:

[Signature]

Dr. Sanku K. Chatterjee
Technical Manager



TEST REPORT

FORMAT NO.: ENV/FM/10

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill - Dewannara Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/III
		Report No.	: ENV/26/Feb./TR(A)/III/22-23
		Type of Sample	: Stack Emission

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 part (mtr.) (from G.L.)	: 4.572
Capacity	: Rated - 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	LIMIT
1.	Flue Gas Temperature	°C	IS: 11255 (Part 1)	: 42.0	N.A.
2.	Barometric Pressure	mm of Hg	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS: 11255 (Part 3)	: 14.42	N.A.
4.	Quantity of Gas flow	Nm ³ /hr.	IS: 11255 (Part III)	: 2476.62	N.A.
5.	Concentration of Particulate Matter	mg/Nm ³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 1.80	2.0

Remarks : Limit as per CPCB (Emission Regulation Part IV, COINDS/26/1986-97).
: N.A. means Not Available
: Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Authorised Signatory:

[Signature]

DR. ANANT BHATTACHARYA
Senior Technical Officer (QA/QC)

DR. ANANT BHATTACHARYA
Senior Technical Officer (QA/QC)



TEST REPORT

FORMAT NO.: ENV/FM/3H

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	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/IV
		Report No.	: ENV/26/Feb./TR(A)/IV/22-23

A. GENERAL INFORMATION ABOUT STACK PROVIDED BY THE INDUSTRY

Stack Attached to	: D. G. Set - 725 KVA
Shape of Stack	: Circular
Materials of Construction	: M.S.
Capacity	: 725 KVA
Emission Due to	: Combustion of H.S.D.
Fuel Used	: H.S.D.
Working Fuel Consumption	: 145 liter/hr.
Pollution Control Device	: Nil

B. RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Flue Gas Temperature	°C	IS : 11255 (Part 1)	: 182.0	N.A.
2.	Barometric Pressure	mm of Hg.	--	: 757.0	N.A.
3.	Velocity of Gas flow	m/s	IS : 11255 (Part 3)	: 15.08	N.A.
4.	Quantity of Gas flow	Nm³/hr.	IS : 11255 (Part III)	: 1170.35	N.A.
5.	Concentration of SO ₂	mg/Nm³	IS 11255 (Part 2) : 2019	: 81.48	N.A.
6.	Concentration of CO ₂	% (v/v)	IS 13270 : 2019	: 8.0	N.A.
7.	Concentration of CO	% (v/v)	IS 13270 : 2019	: <1.0	1.0
8.	Concentration of Particulate Matter	mg/Nm³	IS 11255 (Part - 1) : 2019 & ASTM D 3685/D 3685M-98 (reapproved 2005) : Sec. 11 (Vol.11.07) : 2017	: 78.02	150.0

Remarks : Limit as per CPCB (Emission Regulation Part IV : COINDS/26/1986-87).
: N.A. means Not Available.
: Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Sr. Quality Manager, Client

Authorised Signatory:

Pratik

PRATIK
Regional Manager



TEST REPORT

FORMAT NO.: ENV/PM/32

Name of the Industry	Ramco Industries Ltd.	Type of Industry	Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	Vill. - Dewanmari Ayana, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	06.02.2023 - 07.02.2023
		Period of Analysis	10.02.2023 - 11.02.2023
		Date of Issue	13.02.2023
Sampling Plan & Procedure	ENV/SOP/01	Deviation from the Sampling Method and Plan	No
Sample Condition	Sealed	Sample ID No.	ENV/26/Feb./A/V
		Report No.	ENV/26/Feb./TR(A)/V/22-23
		Type of Sample	Ambient Air

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) : 24.0
2. Average Relative Humidity (%) : 58.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

Sl. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	36.28	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	76.18	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	6.41	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	25.0	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.23	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benz(a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 10th November, 2009.
: Result relates only to the sample tested.

Reviewed By:

Authorised Signatory:

INDRANIL BHATTACHARYA
Technical Manager, Quality

Technical Manager



TEST REPORT

FORMAT NO.: ENV/FM/17

Name of the Industry	: Ramco Industries Ltd.	Type of Industry	: Asbestos Cement Corrugated Sheet & Accessories Mfg. Unit
Address	: Vill. - Dewanmura Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 06.02.2023 - 07.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/VI
		Report No.	: ENV/26/Feb./TR(A)/VI/22-23

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) : 24.0
2. Average Relative Humidity (%) : 58.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	56.66	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	84.26	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	7.26	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	28.51	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.28	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	28.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
: Result relates only to the sample tested

Reviewed By :

Indrani Bhattacharya

Authorised Signatory :

[Signature]

ENVIROCHECK
By: [Signature]

Tested by: [Signature]



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	: 06.02.2023 - 07.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/VII
		Report No.	: ENV/26/Feb./TR(A)/VII/22-23

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) : 24.0
2. Average Relative Humidity (%) : 58.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

Sl. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	54.60	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	86.08	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	11.11	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	29.96	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.42	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA IO 3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA IO 3.2, 1999 & APHA 23-1 Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
Result relates only to the sample tested.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
by the Plant Manager, Ghent.

Authorised Signatory :

Authorised Signatory



TEST REPORT

FORMAT NO.: ENV/PM/37

Name of the Industry	: Ramen 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	: 06.02.2023 - 07.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 13.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
Sample Condition	: Sealed	Sample ID No.	: ENV/26/Feb./A/VIII
		Report No.	: ENV/26/Feb./TR(A)/VIII/22-23

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) : 24.0
2. Average Relative Humidity (%) : 58.0
3. Barometric Pressure (mm of Hg) : 757.0
4. Smell or Odour : No Remarkable Smell
5. Weather Condition : Clear

C) RESULTS

SL. NO.	PARAMETERS	UNIT	METHOD NO.	RESULTS	LIMIT
1.	Concentration of PM _{2.5}	µg/m ³	IS 5182 (Part 24) : 2019	36.22	60.0
2.	Concentration of PM ₁₀	µg/m ³	IS 5182 (PART 23) : 2019	75.34	100.0
3.	Concentration of SO ₂	µg/m ³	IS 5182 (Part 2) 2017 & ASTM D 2914-01, Sec. 11 (Vol. 11.07) : 2017	7.90	80.0
4.	Concentration of NO ₂	µg/m ³	IS 5182 (Part 6) 2017 & ASTM D 1607-91 : Sec. 11 (Vol. 11.07) : 2018	25.0	80.0
5.	Concentration of CO	mg/m ³	IS 5182 (Part 10) : 2019	0.18	2.0
6.	Concentration of Pb	µg/m ³	IS 5182 (Part 22) : 2019	<0.01	1.0
7.	Benzo (a) Pyrene (BaP)	ng/m ³	IS 5182 (Part 12) : 2019 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021/ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.36	1.0
8.	Benzene (C ₆ H ₆)	µg/m ³	IS 5182 (Part 11) 2017 & ASTM D 6209-98, Sec. 11 (Vol. 11.07) : 2021	<0.74	5.0
9.	Ozone (O ₃)	µg/m ³	IS 5182 (Part-9) : 2019	<10.0	100.0
10.	Ammonia (NH ₃)	µg/m ³	IS 5182 (Part 25) : 2018	<4.18	400.0
11.	Nickel (Ni)	ng/m ³	EPA 10.3.2, 1999	<0.02	20.0
12.	Arsenic (As)	ng/m ³	EPA 10.3.2, 1999 & APHA 23rd Ed 3114C : 2017	<0.01	6.0

Remarks : Limit as per National Ambient Air Quality Standards Central Pollution Control Board Notification, New Delhi, the 18th November, 2009.
Result relates only to the sample tested.

Reviewed By:

Indrani Bhattacharya

Authorised Signatory:

[Signature]

<End of Report>



TEST REPORT

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	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 16.02.2023
		Date of Issue	: 18.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Quality Control Lab
		ULR No.	: TC60142300000026P

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT (IS 10500:2012)	
				Acceptable	Permissible
1. Colour	IS 3025 (Part 4) : 2021	Hazen	1.0	5.0	15.0
2. Odour	IS 3025 (Part 5) : 2018	--	Odourless	Agreeable	Agreeable
3. pH	IS 3025 (Part 11) : 2022	--	6.82	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 4) : 2021	--	Acceptable	Agreeable	Agreeable
5. Turbidity	IS 3025 (Part 10) : 2017	NTU	<1.0	1.0	5.0
6. Total Dissolved Solids	IS 3025 (Part 16) : 2017	mg./l	119.0	500.0	2000.0
7. Aluminium	IS 15302 : 2018	mg./l	<0.02	0.03	0.2
8. Calcium	IS 3025 (Part 40) : 2019	mg./l	16.03	75.0	200.0
9. Chloride	IS 3025 (Part 32) : 2019	mg./l	14.0	250.0	1000.0
10. Iron	IS 3025 (Part 53) : 2019	mg./l	0.06	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46) : 2019	mg./l	6.72	30.0	100.0
12. Manganese	IS 3025 (Part 59) : 2017	mg./l	<0.05	0.1	0.3
13. Nitrate	IS 3025 (Part 34) : 2019	mg./l	1.80	45.0	No Relaxation
14. Sulfate	IS 3025 (Part 24) Sec. 1 : 2022	mg./l	18.20	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23) : 2019	mg./l	44.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21) : 2019	mg./l	68.0	200.0	600.0
17. Zinc	IS 3025 (Part 49) : 2019	mg./l	0.01	5.0	15.0
18. Mercury	IS 3025 (Part 48) : 2019	mg./l	<0.001	0.001	No Relaxation
19. Arsenic	IS 3025 (Part 37) : 2019	mg./l	<0.01	0.01	No Relaxation*
20. Chromium	IS 3025 (Part 52) : 2017	mg./l	<0.02	N.A.	N.A.
21. Silica	APHA 23rd Ed, 4500 SiO ₂ -C/F : 2017	mg./l	3.50	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.

d) Result relates only to the sample tested.

e) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

Reviewed By:

Authorised Signatory:

Dr. Technical Manager, Chennai



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	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 18.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Quality Control Lab
		ULR No.	: TC60142300000026P

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.

c) Result relates only to the sample tested.

d) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

Reviewed By :

Authorised Signatory :

PRIYANKA MUKHERJEE
Technical Manager, Microbiology



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. - Dewanmoro Ayma, P.O. - Hariatara, Kharagpur, Paschim Medinipur - 721304	Sampling Date	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 16.02.2023
		Date of Issue	: 18.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Guest House
		ULR No.	: TC601423000000027P

PARAMETERS	METHOD	UNIT	RESULTS	LIMIT (IS 10500:2012)	
				Acceptable	Permissible
1. Colour	IS 3025 (Part 4) : 2021	Hazen	1.0	5.0	15.0
2. Odour	IS 3025 (Part 5) : 2018	--	Odourless	Agreeable	Agreeable
3. pH	IS 3025 (Part 11) : 2022	--	6.80	6.5-8.5	No Relaxation
4. Taste	IS 3025 (Part 4) : 2021	--	Acceptable	Agreeable	Agreeable
5. Turbidity	IS 3025 (Part 10) : 2017	NTU	<1.0	1.0	5.0
6. Total Dissolved Solids	IS 3025 (Part 16) : 2017	mg./l	122.0	500.0	2000.0
7. Aluminium	IS 15302 : 2018	mg./l	0.02	0.03	0.2
8. Calcium	IS 3025 (Part 40) : 2019	mg./l	14.42	75.0	200.0
9. Chloride	IS 3025 (Part 32) : 2019	mg./l	16.0	250.0	1000.0
10. Iron	IS 3025 (Part 53) : 2019	mg./l	0.10	1.0*	No Relaxation
11. Magnesium	IS 3025 (Part 46) : 2019	mg./l	7.68	30.0	100.0
12. Manganese	IS 3025 (Part 59) : 2017	mg./l	<0.05	0.1	0.3
13. Nitrate	IS 3025 (Part 34) : 2019	mg./l	1.60	45.0	No Relaxation
14. Sulfate	IS 3025 (Part 24) Sec. 1 : 2022	mg./l	19.20	200.0	400.0
15. Total Alkalinity	IS 3025 (Part 23) : 2019	mg./l	48.0	200.0	600.0
16. Total Hardness (as CaCO ₃)	IS 3025 (Part 21) : 2019	mg./l	68.0	200.0	600.0
17. Zinc	IS 3025 (Part 49) : 2019	mg./l	<0.01	5.0	15.0
18. Mercury	IS 3025 (Part 48) : 2019	mg./l	<0.001	0.001	No Relaxation
19. Arsenic	IS 3025 (Part 37) : 2019	mg./l	<0.01	0.01	No Relaxation*
20. Chromium	IS 3025 (Part 52) : 2017	mg./l	<0.02	N.A.	N.A.
21. Silica	APHA 23 rd Ed., 4500 SiO ₂ -C/F : 2017	mg./l	3.80	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.

d) Result relates only to the sample tested.

e) Sample collected by Envirocheck and sent to lab for testing in sealed condition.

Reviewed By:

By: [Signature]

Authorized Signatory:

INDRANI BHALLACHARYA
Regional Manager, Chemical



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	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 11.02.2023
		Date of Issue	: 18.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Drinking Water
Sample Condition	: Sealed	Location	: Tap of Guest House
		ULR No.	: TC601423000000027P

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.

c) Result relates only to the sample tested.

d) Sample collected by Envirocheck and sent to lab in sealed condition.

Reviewed By :

Authorised Signatory :

PRIYANKA MUKHERJEE
Technical Manager, Microbiology

<End of Report>



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



FORMAT NO. ENV/FM/53

TEST REPORT

Name of Industry / Company / Factory / Office	: Ramco Industries Limited
Address	: Village - Dewanmari Ayma, P.O. - Hariatara, P.S. - Kharagpur, District - Paschim Medinipur, Pin- 721301.
Type of Industry	: Asbestos Cement Corrugated & Accessories Manufacturing Unit
Sampling Plan & Procedure	: ENV/SOP/02
Deviation from the Sampling Method & Plan	: No
Type of Sample	: Noise Level Study
Sample ID	: ENV/02/Feb/N
Date of Study	: 06/02/2023
Method No.	: IS 15575 (Part 2), 2022
Sample Monitored by	: Mr. Pappu Hazra
Report ID	: ENV/02/Feb/(TR)/N/22-23
Reporting Date	: 15/02/2023
Time of Duration of Noise	: 20 Minutes
Height from Ground Level	: 4 Feet

RESULT OF NOISE LEVEL STUDY

Sr. No.	Location Name	dB (A) - (Noise Data)										Time (Hours)	Min dB (A)	Max dB (A)	Leq dB (A)	Limit in LeqdB(A)
1.	Near Main Gate	49.8	52.5	53.7	49.0	53.9	52.8	54.8	54.0	50.1	50.9	11:00 - 11:20 A.M (Day Time)	49.0	54.6	52.52	A. Industrial Area (Day Time - 75.0) (Night Time - 70.0)
2.	Near Main Gate	49.2	49.5	43.9	39.3	40.5	41.6	43.8	44.1	41.1	42.8	10:00 - 10:20 P.M (Night Time)	39.5	44.1	42.21	
3.	Near Stock Yard	59.7	61.2	60.1	62.3	62.8	58.2	59.7	61.1	60.7	58.8	11:00 - 11:20 A.M (Day Time)	58.2	62.8	61.63	B. Commercial Area (Day Time - 65.0) (Night Time - 55.0)
4.	Near Stock Yard	55.6	57.7	59.5	53.7	52.4	60.4	58.3	58.7	56.5	55.4	10:30 - 10:50 P.M (Night Time)	52.4	60.4	57.53	
5.	Near Scrap Yard	65.7	66.6	64.8	63.8	66.5	58.2	64.9	65.0	67.5	65.2	12:00 - 12:20 P.M (Day Time)	63.8	67.5	65.84	C. Residential Area (Day Time - 55.0) (Night Time - 45.0)
6.	Near Scrap Yard	49.5	50.3	47.3	52.7	50.1	53.5	52.7	48.5	49.5	51.5	11:00 - 11:20 P.M (Night Time)	47.3	53.5	50.97	
7.	Back Side of the Plant	63.7	67.7	62.5	63.8	66.7	62.0	64.5	63.1	62.3	60.4	12:30 - 12:50 P.M (Day Time)	60.4	68.0	64.95	D. Silent Zone (Day Time - 50.0) (Night Time - 40.0)
8.	Back Side of the Plant	55.3	57.7	56.2	54.5	52.1	56.7	57.7	53.9	52.0	53.8	11:30 - 11:50 P.M (Night Time)	52.0	59.2	55.74	

> End of Report <



ENVIROCHECK

Recognised by MoEF&CC, WBPCB & JSPCB
Certified by ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018



** Mean of L_{eq} - Equivalent to Sound Energy		** Central Pollution Control Board, Ministry of Environment & Forests Government of India & Department of Environment, Government of West Bengal	
		** 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
PERMISSIBLE NOISE EXPOSURE FOR INDUSTRIAL WORKERS / Source : The Noise Pollution (Regulation and Control) Rules, 2000			
Hours		Limit in dB(A)	
8		90	
4		91	
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:

Indrani Bhattacharya

INDRANI BHATTACHARYA
Sr. Technical Manager, Chemical

Authorized Signatory:

Biswajit

Technical



FORMAT NO. ENV/FM/40

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	: 06.02.2023
		Period of Analysis	: 10.02.2023 - 15.02.2023
		Date of Issue	: 17.02.2023
Sampling Plan & Procedure	: ENV/SOP/01	Deviation from the Sampling Method and Plan	: No
		Type of Sample	: Domestic Effluent Water (Grab)
Location	: Septic Tank Outlet (Canteen Side)	Sample Condition	: Sealed
		Sample ID No.	: ENV/D6/Feb./W
Report No.	: ENV/06/Feb./TR(W)/22-23		

SL. NO.	PARAMETERS	TEST METHOD	UNIT	RESULTS	LIMIT
1.	pH	4500 H*B APHA 23 rd Edition, 2017	--	6.84	5.5 - 9.0
2.	Total Suspended Solids	2540 D APHA 23 rd Edition, 2017	mg/l	20.0	100.0
3.	Oil & Grease	5520 B/D APHA 23 rd Edition, 2017	mg/l	3.1	10.0
4.	Chemical Oxygen Demand	5200 B/C/D APHA 23 rd Edition, 2017	mg/l	60.0	250.0
5.	Biochemical Oxygen Demand for 5 days at 20°C	5210 B APHA 23 rd Edition, 2017	mg/l	24.0	30.0

Remarks : a) Limit as per Schedule VI inserted by Rule 2(d) of the Environment (Protection) Second Amendment Rules, 1993 notified vide G.S.R. 422(E) dated 19.05.1993, published in the Gazette No. 174 dated 19.05.1993.

b) Results relates only to the sample tested.

c) Sample collected by Envirocheck and sent to lab in sealed condition.

Reviewed By :

Indrani Bhattacharya

INDRANI BHATTACHARYA
Dr. Technical Manager, Client

Authorised Signatory :

[Signature]

DR. [Name]
[Address]

<End of Report>



TEST REPORT

Date: 18.03.2023	Report No: ICD/HA/PTC-138/2023	Format No: ICI/FM/IC/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/PA-138
Address	Dewanmari, Ayma, P.O - Harinara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 13.03.2023
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Sampling Time : 10:30 AM
#Work Order No.	KHIG/POR/0217/22-23, Dtd. 10.03.2022	Analysis Start Date : 17.03.2023
#Sample Description	STACK AIR	Analysis complete Date : 17.03.2023
#Location	EDGE RUNNER MILL BOD & SLURRY MIXING	
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	Material of Construction	MLS
Emission due to	Stack ID at sampling point (M)	0.30
Fuel Used	At Bottom (M)	-
Rated Fuel Consumption	At Top (M)	0.30
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)	8.40
Pollution Control Device	d) Ht. of port from disturbance zone (M)	-
Whether Stack is provided with permanent Platform / Ladder : Yes		

B.] PHYSICAL DATA:

FLUE GAS TEMPERATURE (°C)		33	Steam Generation Capacity:	
Barometric Pressure (mm Hg)		756	a) Rated	-
Velocity of Gas flow (m/s)		8.71	b) Running	-
Quantity of Gas flow (Nm³/hr)		2104.35	Load : a) Rated	-
Pressure		-	b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm³)	1.8	IS 11255 (Part -1): 1985
02.	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	(RA 2019)
03.	Carbon mono oxide (as CO)-% (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	Carbon di oxide (as CO₂)-% (V/V)	<0.2	IS 13270:1992 (RA 2019)

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Mondal

Checked By: A. Patra

Parbati Golui
(Quality Manager)
Signatory AuthorityParbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIATest Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-36 from the date of issue unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

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TEST REPORT

Date: 18.03.2023	Report No: ICI/IL/A/PTC-139/2023	Format No: ICI/FM/01/55
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/PA-139
Address	Dewanmari, Ayra, P.O.-Harianara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date : 13.03.2023
#Customer Representative Name & Contact Number	Mr. Tarakanth Bose Mob. No +91-7063511804	Sampling Time : 11:25 AM
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 17.03.2023
#Sample Description	STACK AIR	Analysis complete Date : 17.03.2023
#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	Stack attached to	CEMENT & FLY ASH FEEDING SECTION	Shape of Stack	Circular
Emission due to	Feeding of Raw Material		Material of Construction	M.S
Fuel Used	-		Stack ID at sampling point (M)	0.40
Rated Fuel Consumption	-		At Bottom (M)	-
Working Fuel Consumption	-		At Top (M)	0.40
Calorific Value(Kcal/kg)	-		Height Details :	
Sulphur Content (% by Wt)	-		a) Total Ht. Of stack from GL(M)	15.00
Ash Content (% by Wt.)	-		b) Total Ht. Of stack from RL(M)	-
Pollution Control Device	Bag Filter		c) Ht. of sampling port from GL(M)	8.40
Whether Stack is provided with permanent Platform / Ladder : Yes			d) Ht. of port from disturbance zone (M)	-

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	31	Steam Generation Capacity:	
Barometric Pressure, (mm Hg)	756	a) Rated	-
Velocity of Gas flow (m/s)	9.13	b) Running	-
Quantity of Gas flow (Nm ³ /hr)	4029.69	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)	1.6	IS 11255 (Part -1) 1985 (RA 2019)
02.	Particulate Matter Normalised to 12% CO ₂ (V/V) - (mg/Nm ³)	-	
03.	Carbon mono oxide (as CO)-% (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	Carbon di oxide (as CO ₂)-% (V/V)	<0.2	IS 13270:1992 (RA 2019)

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-36 from the date of issue unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

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End of Report



INDICATIVE CONSULTANT INDIA



(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 18.03.2023	Report No: ICI/HI/A/PTC-140/2023	Format No: ICI/FM/11/58
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmari, Ayma, P.O.-Haristara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Tanaknath Bose Mob. No. +91-7063511804	Sampling Time
#Work Order No.	KHG/PDR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date
#Sample Description	STACK AIR	Analysis complete Date
#Location	PULVERIZER SECTION	
Sample Condition	In Glass Macrofiber Thimble	
Sampling Method	CPCB Emission Regulation (Part III)	

A] GENERAL INFORMATION ABOUT STACK:

Particulars of the Plant	Stack attached to	Shape of Stack	Circular
Emission due to	PULVERIZER SECTION	Material of Construction	MS
Fuel Used	Process Activity	Stack ID at sampling point (M)	0.26
Rated Fuel Consumption	-	At Bottom (M)	-
Working Fuel Consumption	-	At Top (M)	-
Calorific Value(Kcal/kg)	-	Height Details:	
Sulphur Content (% by Wt)	-	a) Total Ht. Of stack from GL(M)	15.00
Ash Content (% by Wt)	-	b) Total Ht. Of stack from RL(M)	-
Pollution Control Device	Bag Filter	c) Ht. of sampling port from GL(M)	6.70
Whether Stack is provided with permanent Platform / Ladder:	Yes	d) Ht. of port from disturbance zone (M)	-

B.] PHYSICAL DATA:

Flue Gas Temperature (°C)	36	Strum Generation Capacity:	
Barometric Pressure,(mm Hg)	756	a) Rated	-
Velocity of Gas flow (m/s)	7.97	b) Running	-
Quantity of Gas flow (Nm³/hr)	1462.28	Load - a) Rated	-
Pressure	-	b) Running	1 Ton/Hr.

C.] RESULT OF SAMPLING:

Sl. No.	Parameters	Result Obtained	Test Method
01.	Particulate Matter (mg/Nm³)	1.8	IS 11255 (Part-I): 1985 (RA: 2019)
02.	Particulate Matter Normalised to 12% CO₂ (V/V) - (mg/Nm³)	-	
03.	Carbon mono oxide (as CO₂)-% (V/V)	<0.2	IS 13270:1992 (RA 2019)
04.	Carbon di oxide (as CO₂)-% (V/V)	<0.2	IS 13270:1992 (RA 2019)

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Memorial

Checked By: A. Patra

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Thimbles) is 180 days & thimbles no. T-36 from the date of issue unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

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End of Report



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 22.03.2023	Report No: ICI/HL/A/RN-208/2023	Format No: ICI/FM/IL/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Harialara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Tanakrath Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KIIG/POR/0217/22-23, Dtd. 10.05.2022	Analysis complete Date
#Sample Description	AMBIENT AIR	
#Location	NEAR MAIN GATE	
Sample Condition	In Glass Microfibre Filter Paper & Plastic Bottle, Section of ambient air direct into analyser through Teflon tube and in Plastic Bottle	
Sampling Method	CPCB, Emission Regulation (Part III) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - I)	
Test Specification	National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi, Notification dated 18 th November 2009	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:00 AM to 06:00 PM	06:15 PM to 02:15 AM	02:30 AM to 10:30 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	82.07	91.55	78.15	83.92	IS 5182 (Part - 23) 2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	30.08	34.57	28.53	31.06	IS 5182 (Part - 24) 2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	16.55	19.66	15.52	17.24	IS 5182 (Part - 2) 2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	42.96	48.38	39.26	43.53	IS 5182 (Part - 6) 2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 11) 2006 (RA 2017)
7.	Ammonia (NH ₃)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	39.7	-	-	39.7	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2814	0.3166	0.3428	0.3136	Non-Dispersive Infrared Spectrometry Method
10.	Benzo(a)Pyrene (BaP)	ng / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 12) 2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	35.0	30.0	31.0	32.0	Hygrometer

BLQ- Below Limit of Quantification

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

PM₁₀-100 µg/m³, PM_{2.5}-60 µg/m³, SO₂-80 µg/m³, NO_x-80 µg/m³, Lead-1.0 µg/m³, Ammonia-400 µg/m³, 24 hours basis, Carbon monoxide-2 mg/m³, O₃-100 µg/m³, 8 hours basis, Benzene-5 µg/m³, Benzopyrene-1 ng/m³, Arsenic -6 ng/m³, Nickel-26 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 18th November 2009

Prepared By: N. K. Kishor

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Quality Manager)
Signatory Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

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, 7797506973

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



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 22.03.2023	Report No: ICI/HIL/A/RN-209/2023	Format No: ICI/FM/01/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmura, Ayma, P.O.-Haratara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Tarakanth Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis complete Date
#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)/ Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol. - 1)	
Test Specification	National Ambient Air Quality Standards vide Central Pollution Control Board, New Delhi Notification dated 18 th November 2009	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:30 AM to 06:30 PM	06:45 PM to 02:45 AM	03:00 AM to 11:00 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	84.26	89.97	76.26	83.50	IS 5182 (Part - 23):2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	32.64	35.53	27.84	32.00	IS 5182 (Part - 24):2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	17.55	19.66	15.52	17.58	IS 5182 (Part - 21):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	41.08	44.73	38.34	41.38	IS 5182 (Part - 6):2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 11):2006 (RA 2017)
7.	Ammonia (NH ₃)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	39.1	-	-	39.1	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2789	0.3061	0.3522	0.3124	Non-Dispersive Infrared Spectrometry Method
10.	Benz(a)Pyrene (BaP)	ng / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 12):2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	35.0	30.0	31.0	32.0	Hygrometer

BLQ= Below Limit of Quantification

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

PM₁₀= 100 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO_x=80 µg/m³, Lead=1.0 µg/m³, Ammonia=400 µg/m³, 24 hours basis, Carbon mono oxide=2 mg/m³, O₃=100µg/m³, 8 hours basis, Benzene=5 µg/m³, Benzo(a)pyrene=1 ng/m³, Arsenic =6 ng/m³, Nickel=20ng/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

Prepared By: N. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Quality Manager)
Signatory Authority

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
 8. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

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, 7797506973

KOLKATA LABORATORY : B1-1/22/1-2, Santoshpur(M), Block-B, Maheshbala, Kolkata-700142, Mob. : 7797245819, 7797506973



TEST REPORT

Date: 22.03.2023	Report No: ICI/HLA/RN-210/2023	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmuro, Ayma, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:15 AM to 06:15 PM	06:30 PM to 02:30 AM	02:45 AM to 10:45 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	77.06	84.26	73.56	78.29	IS 5182 (Part - 23):2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	29.56	32.02	25.33	28.97	IS 5182 (Part - 24):2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	16.55	18.62	15.52	16.90	IS 5182 (Part - 2):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	41.08	45.65	37.43	41.39	IS 5182 (Part - 6):2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 11):2006 (RA 2017)
7.	Ammonia (NH ₃)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	40.6	-	-	40.6	Guidelines for Measurement of ambient air pollutant (Vol.1) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2744	0.2988	0.3412	0.3048	Non-Dispersive Infrared Spectrometry Method
10.	Benzo(a)Pyrene (BaP)	ng / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 12):2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	35.0	30.0	31.0	32.0	Hygrometer

BLQ= Below Limit of Quantification

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

PM₁₀=160 µg/m³, PM_{2.5}=60 µg/m³, SO₂=80 µg/m³, NO_x=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 18th November 2009

Prepared By: M. Mondal

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
 8. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

Page 1 of 1

End of Report



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 22.03.2023	Report No: ICI/HIL/A/RN-211/2023	Format No: ICI/FM/H/61
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No
Address	Dewanmari, Ayma, P.O.-Haristara, P.S.-Kharagpur, Paschim Medinipur, PIN - 721304	Sampling Date
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-7063511804	Analysis Start Date
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	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) / Air Sampling & Analysis 3 rd Edition, CPCB Guideline (Vol - 1)	

Sl. No.	Parameters	Unit	SAMPLING TIME			24 Hours Average	Test Method
			10:45 AM to 06:45 PM	07:00 PM to 03:00 AM	03:15 AM to 11:15 AM		
1.	Respirable Particulate Matter (PM ₁₀)	µg / m ³	81.48	85.37	72.54	79.80	IS 5182 (Part - 23):2006 (RA 2017)
2.	Respirable Particulate Matter (PM _{2.5})	µg / m ³	31.25	33.38	27.09	30.57	IS 5182 (Part - 24):2019
3.	Sulphur Dioxide (SO ₂)	µg / m ³	18.62	20.69	16.55	18.62	IS 5182 (Part - 2):2001 (RA 2017)
4.	Oxides of Nitrogen (NO _x)	µg / m ³	39.26	42.91	36.52	39.56	IS 5182 (Part - 6):2006 (RA 2017)
5.	Lead (Pb)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Guidelines for Measurement of ambient air pollutant (Vol. I) NAAQMS/36/2012-13 Atomic AAS Method
6.	Benzene (C ₆ H ₆)	µg / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 11):2006 (RA 2017)
7.	Ammonia (NH ₃)	µg / m ³	BLQ	BLQ	BLQ	BLQ	Method of Air Sampling & Analysis 3 rd Edition, 1988 Method No. 408
8.	Ozone (O ₃)	µg / m ³	40.5	-	-	40.5	Guidelines for Measurement of ambient air pollutant (Vol. I) NAAQMS/36/2012-13 (Chemical Method)
9.	Carbon Monoxide (CO)	mg / m ³	0.2756	0.3012	0.3466	0.3078	Non-Dispersive Infrared Spectrometry Method
10.	Benzo(a)Pyrene (BaP)	ng / m ³	BLQ	BLQ	BLQ	BLQ	IS 5182 (Part - 12):2004 (RA 2019)
11.	Arsenic (As)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
12.	Nickel (Ni)	ng / m ³	BLQ	BLQ	BLQ	BLQ	Atomic Absorption Spectrophotometric Method
13.	Ambient Temperature (Average)	°C	35.0	30.0	31.0	32.0	Hygrometer

BLQ= Below Limit of Quantification

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

PM₁₀= 100 µg/m³, PM_{2.5}= 60 µg/m³, SO₂=80 µg/m³, NO_x=50 µg/m³, Lead=1.0 µg/m³, Ammonia=400 µg/m³, 24 hours basis; Carbon monoxide=2 mg/m³, O₃=100 µg/m³, 8 hours basis, Benzene=5 µg/m³, Benzo(a)pyrene=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 18th November 2009

Prepared By: N. Mishra

Checked By: A. Patra

For, INDICATIVE CONSULTANT INDIA

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager

INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note:
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India.
 3. Sample submitted and identified by customer as: NA
 4. Test results shown in this test report relate only to the sample (s) only.
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory.
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report.
 8. Retention period of tested samples (Filter Paper) is 180 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

Page 1 of 1

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



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 21.03.2023	: Report No: ICI/IL/WRN-535/2023	Format No: ICI/FM/11/67
Customer Name	: M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/W-535
Address	: Dewarama, Ayna, P.O.-Haritala, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 13.03.2023
#Customer Representative Name & Contact Number	: Mr. Taraknath Bose Mob. No. +91-7063511804	Sampling Time : 02:05 PM
#Work Order No.	: KHG/POR/0217/22-23, Dtd. 10.05.2022	Analysis Start Date : 14.03.2023
#Sample Description	: DRINKING WATER	Analysis complete Date : 20.03.2023
Sample Condition	: In Plastic Bottle & Glass Bottle	
Sampling Method	: IS:3025 (Part 1): 1987 (RA 2019), APHA 23 rd Ed 2017	
# Location	: GUEST HOUSE	
Material Specification	: IS 10500: 2012	

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	-	-	Visual
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5) 2018 APHA 23 rd Edition 2150 B
3.	pH (at 24°C)	-	6.51	6.5 to 8.5	No Relaxation	IS:3025(Part-11):1983: RA 2017, APHA 23 rd Edition 4500-11 B
4.	Colour	Hazen Unit	<5.0	5	15	IS:3025(Part-4) 1983: RA 2017
5.	Conductivity	µS/cm	204.2	-	-	IS: 3025(Part-14) 1984: RA 2019 APHA 23 rd Edition 2310 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	51.1	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	36.8	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness (as CaCO ₃)	mg/L	14.3	-	-	APHA 23 rd Edition 2340 C
11.	Calcium (as Ca)	mg/L	14.7	75 (Max)	200 (Max)	IS:3025(Part-40) 1991: RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium (as Mg)	mg/L	3.5	30 (Max)	100 (Max)	IS:3025(Part-46) 1994: RA 2019 APHA 23 rd Edition 3500Mg B
13.	Chloride (as Cl)	mg/L	11.7	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	34.0	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	34.0	-	-	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	18.5	200 (Max)	400 (Max)	IS:3025(Part-24) 1986: RA 2019 APHA 23 rd Edition 4500 SO ₄ E

Page: 1 of 2

Pankaj Gotui
Quality Manager
INDICATIVE CONSULTANT INDIA

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



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

Report No: ICI/HL/W/RN-535/2023				#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	
19.	Phosphate (as P)	mg/L	<0.02	-	-	APHA 23 rd Edition 4500P D
20.	Silica (as SiO ₂)	mg/L	20.8	-	-	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

Sl No.	Parameters	Unit	Result	As Per IS:10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
BACTERIOLOGICAL PARAMETERS						
1.	Total Coliform	MPN/100 ml	BLQ	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
2.	E. Coli	CFU/100ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

LOQ= Limits of Quantification; BLQ= Below Limit of Quantification (LOQ- 1.8 MPN/100 ml)

Remarks:

- 1) Chemical test Parameters: Compliance – The above mentioned test parameters are within 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

Parbati Golui
(Quality Manager)
Signatory Authority
Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note :
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India
 3. Sample submitted and identified by customer as: N.A.
 4. Test results shown in this test report relate only to the sample (s) only
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

Page 2 of 2



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 21.03.2023	Report No: ICI/HL/W/RN-536/2023	Format No: ICI/FM/H/67
Customer Name	M/s. RAMCO INDUSTRIES LTD.	Sample ID No : 2023/W-536
Address	Dewanmuro, Ayima, P.O.-Hariatara, P.S.-Kharagpur, Paschim Medinipur.	Sampling Date : 13.03.2023
#Customer Representative Name & Contact Number	Mr. Taraknath Bose Mob. No. +91-70 63511804	Sampling Time : 02:30 PM
		Analysis Start Date : 14.03.2023
		Analysis complete Date : 20.03.2023
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	
#Sample Description	DRINKING WATER	
Sample Condition	In Plastic Bottle & Glass Bottle	
Sampling Method	IS:3025 (Part 1): 1987 (RA 2019), APHA 23 rd Edition 2017	
# Location	INSIDE OF THE PLANT	
Material Specification	IS 10500: 2012	

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	-	-	Visual
2.	Odour	-	Agreeable	Agreeable	Agreeable	IS:3025(Part-5):2018 APHA 23 rd Edition 2150 B
3.	pH (at 24°C)	-	6.52	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	198.2	-	-	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	118.0	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	51.1	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	34.8	-	-	APHA 23 rd Edition 2340 C
10.	Mg Hardness (as CaCO ₃)	mg/L	16.3	-	-	APHA 23 rd Edition 2340 C
11.	Calcium (as Ca)	mg/L	13.9	75 (Max)	200 (Max)	IS:3025(Part-40):1991 RA 2014 APHA 23 rd Edition 3500Ca B
12.	Magnesium (as Mg)	mg/L	4.0	30 (Max)	100 (Max)	IS:3025(Part-46):1994 RA 2019 APHA 23 rd Edition 3500Mg D
13.	Chloride (as Cl)	mg/L	10.8	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	32.0	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	32.0	-	-	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	17.0	200 (Max)	400 (Max)	IS:3025(Part-24):1986 RA 2019 APHA 23 rd Edition 4500 SO ₄ ²⁻ E

Page: 1 of 2

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

Report No: ICI/HL/W/RN-536/2023				#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	
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

Sl No.	Parameters	Unit	Result	As Per IS: 10500:2012		Method Followed
				Desirable Limit	Permissible limit in the absence of alternate source	
BACTERIOLOGICAL PARAMETERS						
1.	Total Coliform	MPN/100 ml	BLQ	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)
2.	E. Coli	CFU/100ml	Absent	Shall not be detectable in any 100 ml of sample	-	IS: 1622:1981 (RA 2019)

LOQ= Limits of Quantification; BLQ= Below Limit of Quantification (LOQ=1.8 MPN/100 ml)

Remarks:

2) Chemical test Parameters: Compliance – The above mentioned test parameters are within 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

Parbati Golui
(Quality Manager)

Signature Authority
Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

Test Witnessed By: Nil (Sampling was done in front of customer representatives)
Estimated Uncertainty: Not Required

- Note :
1. Information provided by customer
 2. Sample is drawn by M/s. Indicative Consultant India
 3. Sample submitted and identified by customer as: N.A.
 4. Test results shown in this test report relate only to the sample (s) only
 5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
 6. The reproduction of the report except in full is invalid without written approval of the laboratory
 7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
 8. Retention period of tested samples (Water) is 10 days from the date of issue of test report unless otherwise specified.
 9. Location of Testing: Haldia Laboratory

End of Report

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

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

KOLKATA LABORATORY : R1-1/22/1-2, Santoshpur(M), Block B, Mahabatala, Kolkata, West Bengal, India



TEST REPORT

Date: 17.03.2023	Report No: ICI/HL/N/TC-045/2023	Format No: ICI/FM/II/68	
Customer Name	M/s. RAMCO INDUSTRIES LTD.		
Address	Dewanmuro, Ayima, P.O.-Haritara, P.S.-Kharagpur, Paschim Medinipur.		
#Customer Representative Name & Contact No.	Mr. Taraknath Bose Mob. No. +91-70 63511804		
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022		
#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)
2023/N-214	13.03.2023	10:10 AM	53.89	55.30	52.6	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)
2023/N-215	13.03.2023	12:05 PM	61.82	63.2	59.4	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)
2023/N-216	13.03.2023	12:35 PM	60.41	62.4	57.4	As per note

#Noise Source/ Location: NEW 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)
2023/N-217	13.03.2023	02:55 PM	64.31	66.2	62.9	As per note

*Note:

NOISE STANDARD

Area Code	Category of Area/ Zone	Limits dB (A) L _{eq}	
		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

For, INDICATIVE CONSULTANT INDIA

Prepared By: *[Signature]*

Checked By: *[Signature]*

Parbati Golui

(Quality Manager)

Signatory Authority

Parbati Golui

Quality Manager

INDICATIVE CONSULTANT INDIA

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

- Note : 1. Information provided by customer
2. Sample is drawn by M/s. Indicative Consultant India
3. Sample submitted and identified by customer as: N.A.
4. Test results shown in this test report relate only to the sample(s) only
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
6. Noise data was recorded at the customer site in presence of customer's representative.
7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
8. The reproduction of the report except in full is invalid without written approval of the laboratory
9. Location of Testing: Plant Site & Report was generated from Haldia Laboratory

End of Report

Page 1 of 1



INDICATIVE CONSULTANT INDIA

(GOVT. REGISTERED TEST HOUSE)



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

TEST REPORT

Date: 17.03.2023	Report No: ICI/HL/N/TC-046/2023	Format No: ICI/FM/II/68
Customer Name	M/s. RAMCO INDUSTRIES LTD.	
Address	Dewanmura, Ayra, P.O.-Haritara, P.S.-Khamarpur, Paschim Medinipur.	
#Customer Representative Name & Contact No.	Mr. Tarakanth Bose Mob. No. 70 63511504	
#Work Order No.	KHG/POR/0217/22-23, Dtd. 10.05.2022	
#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)
Distance of Source	3.0 M	Difference (dt)
		18 Min
		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)
2023/N-218	13.03.2023	01:05 PM	76.49	78.2	75.0	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)
2023/N-219	13.03.2023	01:30 PM	78.62	79.6	77.4	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)
2023/N-220	13.03.2023	02:00 PM	79.03	80.6	77.2	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)
2023/N-221	13.03.2023	03:30 PM	80.47	81.5	79.6	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

For, INDICATIVE CONSULTANT INDIA

Prepared By: N. Koushal

Checked By: A. Patra

Parbati Golui
(Quality Manager)
Signatory Authority

Parbati Golui
Quality Manager
INDICATIVE CONSULTANT INDIA

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

- Note : 1. Information provided by customer
2. Sample is drawn by M/s. Indicative Consultant India
3. Sample mounted and identified by customer as: N.A.
4. Test results shown in this test report relate only to the sample (s) only
5. The test results referred in test report are based on observations & measurements under the stated environmental conditions.
6. Noise data was recorded at the customer site in presence of customer's representative.
7. Once issued, the test report/certificate is in public domain and laboratory is not responsible for the authenticity of photocopied test report
8. The reproduction of the report except in full is invalid without written approval of the laboratory
9. Location of Testing: Plant Site & Report was generated from Haldia Laboratory

End of Report

Page 1 of 1



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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01137

TEST REPORT

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Report No: 23020012.01

Discipline : Chemical

CUSTOMER DETAILS

Customer Name & Address: **M/s. Ramco Industries Limited.,**
Dewanmuro Ayma village Hariatara (PO) Hariatara,
Kharagpur -721304, West Bengal India.

Report Date: 17/02/2023

Group: Atmospheric pollution

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 23020012.01	Sampled On	: 01/02/2023
Sample Name	: Indoor Air Quality	Sample Received On	: 02/02/2023
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	: 03/02/2023
Customer Code	: NA	Test Completed On	: 17/02/2023

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	23020012.01	Stripping Area	01/02/2023	Area	1	10:15 AM	2:15 PM	240	240	0.04

Amr
17/02/2023 (G. Imran)

Verified By

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

For CVR LABS (P) LIMITED

Nirmala
K.B. NIRMALA
Authorised Signatory
24/02/23



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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011327

TEST REPORT

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Report No: 23020012.02

Discipline : Chemical

Report Date: 17/02/2023

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 : 23020012.02 Sampled On : 01/02/2023
Sample Name : Indoor Air Quality Sample Received On : 02/02/2023
Monitoring
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 : 03/02/2023
Customer Code : NA Test Completed On : 17/02/2023

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	23020012.02	Moulding Area	01/02/2023	Area	1	10:20 AM	2:20 PM	240	240	0.038

[Signature]
17/02/2023

Verified By

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

For CVR LABS (P) LIMITED

[Signature]
NIRMA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

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Report No: 23020012.03

Discipline : Chemical

CUSTOMER DETAILS

Customer Name & Address:

M/s. Ramco Industries Limited.,

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

Report Date: 17/02/2023

Group: Atmospheric pollution

Customer Reference: NA

SAMPLE DETAILS

Sample Code : 23020012.03

Sample Name : Indoor Air Quality
Monitoring

Sample Description : Asbestos Fibre

Sample Condition : Good

Sample Quantity : NA

Sampled By : CVR Labs

Customer Code : NA

Sampled On : 01/02/2023

Sample Received On : 02/02/2023

Sampling Location : -

Sampling Procedure : NIOSH 7400

Equipment Used : CVR/CH/067

Test Started On : 03/02/2023

Test Completed On : 17/02/2023

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	23020012.03	Drum cutter dry Area	01/02/2023	Area	1	10:25 AM	2:25 PM	240	240	0.042

Signature
17/02/2023 (G. Duran)
Verified By

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

For CVR LABS (P) LIMITED

Signature
NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

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Report No: 23020012.04

Discipline : Chemical

Report Date: 17/02/2023

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 : 23020012.04

Sampled On : 01/02/2023

Sample Name : Indoor Air Quality
Monitoring

Sample Received On : 02/02/2023

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 : 03/02/2023

Customer Code : NA

Test Completed On : 17/02/2023

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	23020012.04	Auto Box Area	01/02/2023	Area	1	10:30 AM	2:30 PM	240	240	0.038

Signature
17/02/2023 (G. D. Manan)

Verified By

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

For CVR LABS (P) LIMITED

Signature
I. K. NIRMALA
Authorized Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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052340

TEST REPORT

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Report No: 23020012.05

Discipline : Chemical

Report Date: 17/02/2023

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:

SAMPLE DETAILS

Sample Code : 23020012.05 Sampled On : 01/02/2023
Sample Name : Indoor Air Quality Sample Received On : 02/02/2023
Monitoring
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 : 03/02/2023
Customer Code : NA Test Completed On : 17/02/2023

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	23020012.05	Fibre Godown	01/02/2023	Area	1	10:35 AM	2:35 PM	240	240	0.045

17/02/2023 (G. J. Jagan)

Verified By

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

For CVR LABS (P) LIMITED

Nirmala K.B
M.B. NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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012345

TEST REPORT

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Report No: 23020012.06

Discipline : Chemical

CUSTOMER DETAILS

Customer Name & Address:

M/s. Ramco Industries Limited.,

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

Report Date: 17/02/2023

Group: Atmospheric pollution

Customer Reference: NA

SAMPLE DETAILS

Sample Code : 23020012.06

Sampled On : 01/02/2023

Sample Name : Indoor Air Quality
Monitoring

Sample Received On : 02/02/2023

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 : 03/02/2023

Customer Code : NA

Test Completed On : 17/02/2023

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	23020012.06	Slurry Mixer	01/02/2023	Area	1	10:40 AM	2:40 PM	240	240	0.040

17/02/2023
Verified By

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

For CVR LABS (P) LIMITED

Nirmala K.B
K.A. NIRMALA
Authorized Signatory
17/02/2023



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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011312

TEST REPORT

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Report No: 23020012.07

Discipline : Chemical

CUSTOMER DETAILS

Customer Name & Address:

M/s. Ramco Industries Limited.,

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

Report Date: 17/02/2023

Group: Atmospheric pollution

Customer Reference: NA

SAMPLE DETAILS

Sample Code : 23020012.07

Sampled On : 01/02/2023

Sample Name : Indoor Air Quality
Monitoring

Sample Received On : 02/02/2023

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 : 03/02/2023

Customer Code : NA

Test Completed On : 17/02/2023

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	23020012.07	BOD Area	01/02/2023	Area	1	10:45 AM	2:45 PM	240	240	0.037

Signature (G. Dhan)
17/02/2023
Verified By

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

For CVR LABS (P) LIMITED
Signature
K. S. NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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011011

TEST REPORT

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Report No: 23020012.08

Discipline : Chemical

Report Date: 17/02/2023

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	: 23020012.08	Sampled On	: 01/02/2023
Sample Name	: Indoor Air Quality Monitoring	Sample Received On	: 02/02/2023
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	: 03/02/2023
Customer Code	: NA	Test Completed On	: 17/02/2023

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	23020012.08	Pulveriser Area	01/02/2023	Area	1	10:50 AM	2:50 PM	240	240	0.035

[Signature]
17/02/2023 (G. D. Mani)
Verified By

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

For CVR LABS (P) LIMITED

[Signature]
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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011011

TEST REPORT

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Report No: 23020012.09

Discipline : Chemical

CUSTOMER DETAILS

Customer Name & Address:

M/s. Ramco Industries Limited.,

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

Report Date: 17/02/2023

Group: Atmospheric pollution

Customer Reference: NA

SAMPLE DETAILS

Sample Code : 23020012.09

Sampled On : 01/02/2023

Sample Name : Indoor Air Quality
Monitoring

Sample Received On : 02/02/2023

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 : 03/02/2023

Customer Code : NA

Test Completed On : 17/02/2023

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	23020012.09	Ball Mill	01/02/2023	Area	1	10:50 AM	2:50 PM	240	240	0.039

Anura
17/02/2023
Verified By

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

For CVR LABS (P) LIMITED

Nirmala
K.B. NIRMALA
Authorized Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

Dignity Centre, II Floor, No. 2/9, Abdul Razack Street,
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011015

TEST REPORT

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Report No: 23020012.10

Discipline : Chemical

Report Date: 17/02/2023

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s. Ramco Industries Limited.,

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

Customer Reference:

SAMPLE DETAILS

Sample Code : 23020012.10

Sampled On : 01/02/2023

Sample Name : Indoor Air Quality
Monitoring

Sample Received On : 02/02/2023

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 : 03/02/2023

Customer Code : NA

Test Completed On : 17/02/2023

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	23020012.10	Fiber Stack	01/02/2023	Area	1	10:55 AM	11:25 AM	30	30	0.042

Signature
17/02/2023
Verified By (G. Daman)

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

For CVR LABS (P) LIMITED

Signature
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

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Report No: 23020012.11

Discipline : Chemical

Report Date: 17/02/2023

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 : 23020012.11

Sampled On : 01/02/2023

Sample Name : Indoor Air Quality
Monitoring

Sample Received On : 02/02/2023

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 : 03/02/2023

Customer Code : NA

Test Completed On : 17/02/2023

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	23020012.11	Pulveriser stack	01/02/2023	Area	1	11:30 AM	12:00 PM	30	30	0.034

Amrta (G. Jeyan)
17/02/2023
Verified By

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

For CVR LABS (P) LIMITED

Nikhil K. N. N. N.
17/02/2023
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

Page 1 of 2

Report No: 23020013.01

Discipline : Chemical

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	: 23020013.01	Sampled On	: 01/02/2023
Sample Name	: Solid	Sample Received On	: 02/02/2023
Sample Description	: Chrysotile Fiber	Sampling Location	: NA
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: -	Equipment Used	: CVR/CH/065
Sampled By	: CVR	Test Started On	: 03/02/2023
Customer Code	: NA	Test Completed On	: 06/02/2023

SL.NO	TEST PARAMETER (S)	TEST METHOD	UNIT	RESULTS
1	Lithium(Li)	BY ICPMS	ppm	Less than 5
2	Beryllium(Be)	BY ICPMS	ppm	Less than 5
3	Scandium(Sc)	BY ICPMS	ppm	Less than 5
4	Vanadium(V)	BY ICPMS	ppm	Less than 5
5	Zinc(Zn)	BY ICPMS	ppm	Less than 5
6	Arsenic(As)	BY ICPMS	ppm	Less than 5
7	Rubidium(Rb)	BY ICPMS	ppm	Less than 5
8	Strontium(Sr)	BY ICPMS	ppm	Less than 5
9	Yttrium(Y)	BY ICPMS	ppm	Less than 5
10	Antimony(Sb)	BY ICPMS	ppm	Less than 5
11	Caesium(Cs)	BY ICPMS	ppm	Less than 5
12	Barium(Ba)	BY ICPMS	ppm	Less than 5
13	Lanthanum(La)	BY ICPMS	ppm	Less than 5
14	Cerium(Ce)	BY ICPMS	ppm	Less than 5

Amrta
06/02/2023 (G. Duman)
Verified By

.....cont.....

For CVR LABS (P) LIMITED

Nishu
R. S. N. S. S. S.
06/02/23
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

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Report No:23020013.01

Report Date: 06/02/2023

15	Praseodymium(Pr)	BY ICPMS	ppm	Less than 5
16	Neodymium(Nd)	BY ICPMS	ppm	Less than 5
17	Europium(Eu)	BY ICPMS	ppm	Less than 5
18	Gadolinium(Gd)	BY ICPMS	ppm	Less than 5
19	Terbium(Tb)	BY ICPMS	ppm	Less than 5
20	Dysprosium(Dy)	BY ICPMS	ppm	Less than 5
21	Holmium(Ho)	BY ICPMS	ppm	Less than 5
22	Ytterbium(Yb)	BY ICPMS	ppm	Less than 5
23	Erbium(Er)	BY ICPMS	ppm	Less than 5
24	Lutetium(Lu)	BY ICPMS	ppm	Less than 5
25	Thorium(Th)	BY ICPMS	ppm	Less than 5
26	Uranium(U)	BY ICPMS	ppm	Less than 5
27	Copper(Cu)	BY ICPMS	ppm	Less than 5
28	Lead(Pb)	BY ICPMS	ppm	Less than 5
29	Tholium(Tm)	BY ICPMS	ppm	Less than 5
30	Samarium(sm)	BY ICPMS	ppm	Less than 5

[Signature] (G. Imran)
06/02/2023

Verified By

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

For CVR LABS (P) LIMITED

[Signature]
K.B. NIRMALA
Authorized Signatory
06/02/2023

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

Page 1 of 11

Report No: 22110008.01

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s. Ramco Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.01	Sampled On	: 01/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.01	Stripping area	01-11-2022	Area	2	9:00 AM	1:00 PM	240	480	0.032

[Signature]
14/11/2022
Verified By

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

For CVR LABS (P) LIMITED

[Signature]
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

Page 2 of 11

Report No: 22110008.02

Report Date: 14/11/2022

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	: 22110008.02	Sampled On	: 01/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.02	Moulding area	01-11-2022	Area	2	9:05 AM	1:05 PM	240	480	0.042

For CVR LABS (P) LIMITED

Amra (G. Imran)
14/11/2022
Verified By

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

Nirmala K.B.
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

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Report No: 22110008.03

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s.Ramco Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.03	Sampled On	: 01/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.03	Drum Cutter Dry Area	01-11-2022	Area	2	9:10 AM	1:10 PM	240	480	0.038

g.murugan (G. Murugan)
14/11/2022

Verified By

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

For CVR LABS (P) LIMITED

Nirmala K.B
K.B. NIRMALA
Authorized Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

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Report No: 22110008.04

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s.Ramco Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.04	Sampled On	: 01/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.04	Auto Box area	01-11-2022	Area	2	9:15 AM	1:15 PM	240	480	0.048

G. Imran
14/11/2022 (G. Imran)
Verified By

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

For CVR LABS (P) LIMITED

N. S. M. S. S.
K.B. NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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012777

TEST REPORT

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Report No: 22110008.05

Report Date: 14/11/2022

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	: 22110008.05	Sampled On	: 01/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.05	Fibre Godown	01/11/2022	Area	2	9:20 AM	1:20 PM	240	480	0.034

Signature (G. D. S. S. S.)
14/11/2022

Verified By

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

For CVR LABS (P) LIMITED

Signature
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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012701

TEST REPORT

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Report No: 22110008.06

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s.Ramco Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.06	Sampled On	: 02/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.06	Slurry Mixer	02-11-2022	Area	2	9:00 AM	1:00 PM	240	480	0.038

June (G. Prasad)
14/11/2022
Verified By

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

For CVR LABS (P) LIMITED

Nirmala K.B
K.B. NIRMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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018771

TEST REPORT

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Report No: 22110008.07

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s.Rameo Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.07	Sampled On	: 02/11/2022
Sample Name	: workzone Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.07	Bod area	02-11-2022	Area	2	9:05 AM	1:05 PM	240	480	0.043

[Signature]
14/11/2022 (Gr. Director)

Verified By

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

For CVR LABS (P) LIMITED

[Signature]
K.B. NIRMALA
Authorized Signatory



CVR Labs (P) Limited

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TEST REPORT

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Report No: 22110008.08

Report Date: 14/11/2022

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	: 22110008.08	Sampled On	: 02/11/2022
Sample Name	: Indoor Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.08	Pulveriser Area	02-11-2022	Area	2	9:10 AM	1:10 PM	240	480	0.038

Amritha
14/11/2022 (G. Dharan)
Verified By

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

For CVR LABS (P) LIMITED

Narmada K.B
K.B. NARMALA
Authorized Signatory



CVR Labs (P) Limited

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TEST REPORT

Page 9 of 11

Report No: 22110008.09

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s.Rameo Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.09	Sampled On	: 02/11/2022
Sample Name	: Indoor Air Quality Monitoring	Sample Received On	: 03/11/2022
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	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.09	Ball Mill	02-11-2022	Area	2	9:15 AM	1:15 PM	240	480	0.046

Amr (G. Daman)
14/11/2022
Verified By

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

For CVR LABS (P) LIMITED

Nishu K. B. Wimala
K.B. WIMALA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

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TEST REPORT

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Report No: 22110008.10

Report Date: 14/11/2022

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	: 22110008.10	Sampled On	: 02/11/2022
Sample Name	: Indoor Air Quality Monitoring	Sample Received On	: 03/11/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CII/069
Sampled By	: CVR Labs	Test Started On	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.10	Fibre Stack	02-11-2022	Area	1	9:30 AM	10:00 AM	30	30	0.034

Anura (G. Dmatar)
14/11/2022
Verified By

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

For CVR LABS (P) LIMITED

N. Sankar
K.B. NARAYANA
Authorised Signatory



CVR Labs (P) Limited

CIN NO: U 74140TN1999PTC043582

01870

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TEST REPORT

Page 11 of 11

Report No: 22110008.11

Report Date: 14/11/2022

Discipline : Chemical

Group: Atmospheric pollution

CUSTOMER DETAILS

Customer Name & Address:

M/s.Ramco Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110008.11	Sampled On	: 02/11/2022
Sample Name	: Indoor Air Quality Monitoring	Sample Received On	: 03/11/2022
Sample Description	: Asbestos Fibre	Sampling Location	: -
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: NA	Equipment Used	: CVR/CH/070
Sampled By	: CVR Labs	Test Started On	: 04/11/2022
Customer Code	: NA	Test Completed On	: 14/11/2022

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	22110008.11	Pulveriser Stack	02-11-2022	Area	1	10:30 AM	11:00 AM	30	30	0.048

June (G. D. Man)
14/11/2022

Verified By

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

For CVR LABS (P) LIMITED

K.B. NIRMALA
K.B. NIRMALA
Authorised Signature

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

CIN NO: U 74140TN1999PTC043582

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

Page 1 of 2

Report No: 22110009.01

Report Date: 07/11/2022

Discipline : Chemical

Group: Miscellaneous

CUSTOMER DETAILS

Customer Name & Address:

M/S. Ramco Industries Limited.,

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

Customer Reference: NA

SAMPLE DETAILS

Sample Code	: 22110009.01	Sampled On	: 01/11/2022
Sample Name	: Solid	Sample Received On	: 03/11/2022
Sample Description	: Chrysotile Fibre	Sampling Location	: NA
Sample Condition	: Good	Sampling Procedure	: NIOSH 7400
Sample Quantity	: -	Equipment Used	: CVR/CH/065
Sampled By	: CVR	Test Started On	: 04/11/2022
Customer Code	: NA	Test Completed On	: 07/11/2022

SL.NO	TEST PARAMETER(S)	TEST METHOD	UNIT	RESULTS
1	Lithium(Li)	BY ICPMS	ppm	Less than 5
2	Beryllium(Be)	BY ICPMS	ppm	Less than 5
3	Scandium(Sc)	BY ICPMS	ppm	Less than 5
4	Vanadium(V)	BY ICPMS	ppm	Less than 5
5	Zinc(Zn)	BY ICPMS	ppm	Less than 5
6	Arsenic(As)	BY ICPMS	ppm	Less than 5
7	Rubidium(Rb)	BY ICPMS	ppm	Less than 5
8	Strontium(Sr)	BY ICPMS	ppm	Less than 5
9	Yttrium(Y)	BY ICPMS	ppm	Less than 5
10	Antimony(Sb)	BY ICPMS	ppm	Less than 5
11	Caesium(Cs)	BY ICPMS	ppm	Less than 5
12	Barium(Ba)	BY ICPMS	ppm	Less than 5
13	Lanthanum(La)	BY ICPMS	ppm	Less than 5
14	Cerium(Ce)	BY ICPMS	ppm	Less than 5

R. Karthick
07/11/2022
Verified By

.....Conf.....

For CVR LABS (P) LIMITED

N. Anand K.B.
R.B. NIRMALA
Authorised Signatory

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TEST REPORT

Page 2 of 2

Report No: 22110009.01

Report Date:07/11/2022

SLNO	TEST PARAMETER(S)	TEST METHOD	UNIT	RESULTS
15	Praseodymium(Pr)	BY ICPMS	ppm	Less than 5
16	Neodymium(Nd)	BY ICPMS	ppm	Less than 5
17	Europium(Eu)	BY ICPMS	ppm	Less than 5
18	Gadolinium(Gd)	BY ICPMS	ppm	Less than 5
19	Terbium(Tb)	BY ICPMS	ppm	Less than 5
20	Dysprosium(Dy)	BY ICPMS	ppm	Less than 5
21	Holmium(Ho)	BY ICPMS	ppm	Less than 5
22	Ytterbium(Yb)	BY ICPMS	ppm	Less than 5
23	Erbium(Er)	BY ICPMS	ppm	Less than 5
24	Lutetium(Lu)	BY ICPMS	ppm	Less than 5
25	Thorium(Th)	BY ICPMS	ppm	Less than 5
26	Uranium(U)	BY ICPMS	ppm	Less than 5
27	Copper(cu)	BY ICPMS	ppm	Less than 5
28	Lead(Pb)	BY ICPMS	ppm	Less than 5
29	Thulium(Tm)	BY ICPMS	ppm	Less than 5
30	Samarium(sm)	BY ICPMS	ppm	Less than 5

R. Kage (R. Parthick)
07/11/2022
Verified By

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

For CVR LABS (P) LIMITED

Nirmala K. S.
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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