

Ramco Industries Limited

Ref.:RIL/BIH/423/18-19/MoEF

Date: 26.10.2018

To

The Director,
Ministry of Env. and Forest, Climate Change
Ranchi Regional Office (ECZ),
Bungalow No. A-2, Shyamali Colony,
Ranchi-834 001

Sub: Half yearly compliance report for the period of April- 2018 to Sep- 2018.

Sir,

With reference to above we are submitting here with the half yearly compliance report of the Environment clearance condition including result of the monitored data for your kind information and record please.

Receipt of the same may kindly be acknowledged.

Yours Faithfully,

For, Ramco Industries Limited,


Pankaj Kumar

Works Manager

CC: Monitoring Cell, MoEFCC, Delhi

CPCB, Calcutta.

✓ BSPCB, Patna

✓ File copy.

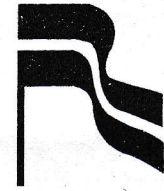
Encl:

1. Half Yearly compliance report.
2. Work place, Ambient & stack monitoring report, Quarterly.
3. Stack monitoring report, Monthly.
4. Ambient report weekly.
5. Green belt development of our site.
6. Medical Checkup & associated Picture.
7. Production Details.

Regd. Office : 47, P.S.K. Nagar, Rajapalayam - 626
Head Office : "Auras Corporate Centre", VI Floor, 98

POSTAL ORDER NO: 477035733562
OF INDIA SO (802152)
Counter No: 1, 29/10/2018, 13:23
TO: THE DIRECTOR, P. O. R
RANCHI REGIONAL OFFICE, Ranchi
FROM: THE RAMCO, JHAR
IN 1000000
Amt: 100.00 (Cash) To: 10.20
(Track on www.indiapost.gov.in)
Call: 1000 244 8000

Kolkata



Plot No. A1,
BIADA Industrial Area,
Opp. Mahathin Mai Temple
Bihya - 802152
Dist : Bhojpur (BIHAR)
Ph. - 06181 - 241016, 241070

बिहार राज्य प्रदूषण नियंत्रण पर्षद्
पाटलीपुत्र औद्योगिक क्षेत्र, पटना-10
29 OCT 2018
C
प्राप्त किया
25171

POSTAL ORDER NO: 477035733562
OF INDIA SO (802152)
Counter No: 1, 29/10/2018, 13:24
TO: THE DIRECTOR, RANCHI
RANCHI REGIONAL OFFICE, Ranchi G.P.O.
FROM: THE RAMCO, JHAR
IN 1000000
Amt: 100.00 (Cash) To: 10.20
(Track on www.indiapost.gov.in)
Call: 1000 244 8000

Ranchi

POSTAL ORDER NO: 4770357335740
OF INDIA SO (802152)
Counter No: 1, 29/10/2018, 13:25
TO: THE DIRECTOR, NEW DELHI
RANCHI REGIONAL OFFICE, Lodi Road NO
FROM: THE RAMCO, JHAR
IN 1000000
Amt: 100.00 (Cash) To: 10.20
(Track on www.indiapost.gov.in)
Call: 1000 244 8000

Delhi

Chennai - 600 004.

vi. Bags containing asbestos fiber shall be stored in enclosed area to avoid fugitive emissions of asbestos fiber from damaged bags, if any	The bags containing asbestos are stored in an enclosed asbestos fiber storage area of about 925 sq. m.
vii. Proper house keeping shall be maintained within the plant premises, process machinery, exhaust and ventilation systems shall be laid in accordance with factories act. Better house keeping practices shall be adopted for improvement of the environment within the work environment also. These includes ; a. All monitoring transfer points shall be connected to dust extraction system. b. Leakages or dust from machines and ducts shall be plugged. c. Floor shall be cleaned by vacuum cleaner only. d. Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises.	We have complied with the said condition. Proper housekeeping facility with vacuum cleaning of the floor is provided in the plant area. We have a complete closed circuit manufacturing process with enclosed belt conveyer. The asbestos bags are being brought through conveyer to BOD.
viii. Area and stacks shall be undertaken by the project proponents, in addition, the Asbestos fibre count in the work zone area shall be monitor by an independent monitoring agency like;NIOS-ITRC/NCB or any other approved agency and report submitted to the Ministry's Regional Office at Bhubaneswar SPCB and CPCB.	We have our own laboratory set up for workplace. We are sending fibre count slide to the R & D center, Chennai with the Phase contrast Microscope Olympus BX-50, every month wise. In addition to that the Asbestos fibre count in the work zone and the stack are tested by a competent & approved third party monitoring agency (by J R Lab). The details of tested datas at our site by the third party is enclosed in ANNEXURE -1
ix .Total water requirement from ground water shall not exceed 80 cum/day . All the recommendations of the State Ground Water Deptt.,Govt. of Bihar shall be implemented in time bound manner.	We have a pond of holding capacity 2070 m3 for rain water harvesting. And we have three recharge pit in different angles to recharge ground water with rain. Daily monitoring is done for consumption of water and consumed as per limit 80cum/day.
x. After five years operation of plant, no ground water shall be used and only rain water shall be used.	At present we are taking water from our pond and ground . We applied to the MoEF for giving the permission to use continue the ground water. Proper inspection and all formalities done , now in waiting for final order in this regard .
xi. As reflected in the Environmental management plan, all the treated effluent shall be recycled 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.	We have complied the said condition. There is no discharge of process effluent and entire process water is recycled back into the system & It is ensured zero discharge. All waste water is used for green belt development through pond.
xii. The company shall ensure that the entire solid waste generated including process rejects, cement, fly ash, dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. Process sludge shall be 100% recycled and reuse in the process. Hazardous waste shall be ground in dust proof pulverizer with integrated bag filter and recycled back to the process. Asbestos fibres which	We have complied with the said condition. The entire Solid waste generated including process rejects, dust from bag filters and empty asbestos bags are recycled back in the manufacturing process.

For **RAMCO INDUSTRIES LTD.**

Pankaj

COMPLIANCE STATUS OF MoFF CONDITIONS

Letter No F.No.J-11011/17/2010-IA II (I)

CONDITIONS	COMPLIANCE STATUS
A - Specific conditions	
i. The project proponent shall adhere to the prescribed BIS standards and law regarding use and handling of asbestos, safety of employee etc. Raw material like asbestos fiber and cement shall be transported in closed containers. Asbestos fiber shall be brought in palletized form in impermeable Bags and under compress condition.	We are following the BIS standards as mention below- IS-11450-For determination of airborne asbestos fibre concentration in work environment. IS-11451-For Safety and health requirements. IS-11769 & IS-11770-For asbestos cement product. IS-12078-For handling of asbestos fibre. IS-12081-For Pictorial warning signs & precautionary notices for asbestos & product containing asbestos. The Raw materials are transported in closed containers. Asbestos is brought in impermeable bags under compressed condition. The bags are handled with fork lift for loading and unloading and for feeding on the BOD machine. Safety gadgets are being used by the workers.
ii. Only Chrysotile white asbestos fiber shall be used. Blue asbestos shall not utilized as raw material in the manufacturing process.	We use only CHRYSOTILE Fibre as raw material in the manufacturing process and we do not use blue asbestos .
iii. There shall be no manual handling/opening of asbestos fiber bags. The company shall install fully automatic asbestos fiber debagging system before commissioning the unit.	There is no manual handling/opening of asbestos Fibre bags. Fibre is stored in polythene woven bags and de bagged 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 emissions shall be controlled by brining cement in closed tankers, fly ash covered trucks and asbestos in impervious bags opening inside a closed mixer. Dust collectors shall be provided to Fibre mill, Bag opening device (BOD), Cement & Flyash silos to control emissions. Bag filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder , fiber mill and to cement silo to collect the dust and recycle it into the process fugitive emissions generated from hopper of Jaw Crusher & Pulverizer shall be channelized through hood with proper suction arrangement, Bag filter and stack.	Cement & Flyash are bought in closed Bulker. Fibre bags are opened in fully automatic closed circuit area – called BOD (Bag Opening Device). Duct collectors with cyclone type are used in cement, flyash, fibre silo. In above circuit and pulverized the positive fugitive emission are recycled and used in RM. Heavy duty vacuum cleaner is being used in Fibre mill area. Cement and fly ash are storage in separate silos.
v. The company shall comply with total dust emission limit of 2mg/Nm ³ as notified under the Environment (Protection) Act, 1986. Adequate measures shall be adopt to control the process emission and ensure that the stack emission of asbestos fiber shall not exceed the emission limit of 0.2 fiber/cc. Asbestos fiber in work zone environment shall be maintained with in 0.1fiber/cc.	We comply with the stated emission standards. The details of Stack Monitoring record and Work place Fibre counting record is attached in ANNEXURE -1 .

For RAMCO INDUSTRIES LTD.

Pankaj

<p>can not be further recycled due to contamination of iron dust shall be stored in SDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.</p>	
<p>xiii. The cut and damaged fibre bags shall immediately be repaired. 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.</p>	<p>It is ensured that we get fibre bags with intact. Damages if any, would immediately be sealed before unloading at our site. There is no manual handling /opening of the fibre bags. The fibre bags are fed into a Bag opening device (BOD) wherein bags are automatically shredded.</p>
<p>xiv. The company shall obtain a certificate from the supplier of chrysotile fibre that it does not contain any toxic or trace metals. A copy of certificate shall be submitted to the Ministry of Environment and forest.</p>	<p>We receive certificates from the suppliers for every lot. Chemical analysis report of chrysotile fibre from supplier has been sent to MoEF. A copy of certificate is attached for your reference. ANNEXURE -3</p>
<p>xv. Regular medical examination of the workers and health monitoring of all the employees shall be carried out and if cases of asbestos are detected, necessary compensation shall be arranged under the existing laws. A competent occupations 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, bloat 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 the directives of the Hon'ble supreme court.</p>	<p>Medical examination of employees carried out by competent occupational health physician periodically for Sputum test, Lungs Function Test (PFT), bloat tests for TLC,DLC,ESR, Hb, Chest X Ray and general medical check up.</p> <p>Pre employment tests are carried out as per factory act and all records pertaining to health checkup are maintained as per IS : 11451 and factory act.</p> <p>•The directive of Supreme court is followed strictly. All records are well maintained and available in office.</p> <p>A sample of medical report is attached for your reference. ANNEXURE -4</p>
<p>xvi. To educate the workers, all the work places where asbestos dust may cause 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.</p>	<p>We have provided display signs of Asbestos fibre for identifying the hazards and associated health effects, at various locations inside the factory. Picture attached for your reference. ANNEXURE -5</p>
<p>xvii. The company shall also undertake rain water harvesting measures and plan of action shall be submitted to the Ministry of Environment and forest within three months.</p>	<p>We made a pond with a size of 2070 m3 for a depth of 5 m for rain water harvesting system. Apart from these, we made three rain water recharge pit in tri angle position.</p>
<p>xviii. All the commitments made to the public during the public hearing / public consultation meeting held on 22nd Nov., 2010 shall be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubneswar.</p>	<p>Public hearing points are as follows:</p> <ol style="list-style-type: none"> 1. Controlling emission from chimney – it is well controlled and time to time checked by third party. There is no coal based activity. 2. Implementing rain water harvesting: Rain water harvesting pond and recharge pit are made available.
<p>xix. Green belt shall be developed in at least 33% of plant area as per the CPCB guidelines in consultation with DFO.</p>	<p>An effective green belt area is developed in consultation with DFO as per CPCB guidelines. Our developed green belt area is 8 acres which is 40% of</p>

For **RAMCO INDUSTRIES LTD.**

Pankaj K
(AUTHORISED SIGNATORY)

	our total land area. The details of green belt development of our site are attached in ANNEXURE – 6.
xx. At least 5% of the total cost of the project should be earmarked towards the corporate social responsibility and item wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubneswar. Implementation of such programme should be ensured accordingly in a time bound manner.	Under Corporate Social Responsibilities an amount of Rs.4264552 expended till 31 st September-2018.
xxi. The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such a fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. the housing may be in the form of temporary structures to be removed after the completion of the project.	We have provided all necessary infrastructure and facilities to our construction labour within the site.
B GENERAL CONDITIONS	
i. The projects authorities must strictly adhere to the stipulations made by the Bihar Pollution control board and the state government .	We strictly adhere to the stipulations made by the Bihar Pollution Control Board and the State Government.
ii. No further expansion/modifications in the plant shall be carried out with out prior approval of the ministry of environment and forests.	No further expansion/ modifications in the plant will be carried out without prior approval of the Ministry of Environment and Forests.
iii. The gaseous emissions from various process unit shall conform to the load / mass based standards notified by this Ministry on 19 th May, 1993 and standards prescribed from time to time. The state board may specify more stringent standards for the relevant parameters keeping in view the nature of the industry and its size and location.	<u>Our Gaseous emission details</u> Fibre dust emission fibre stack is 1.60 mg/Nm ³ against 2.0 mg/Nm ³ SPM in cement stack is 41.6 µg/m ³ against 100 µg/m ³ SPM in DG set 48.4 µg/m ³ against 75 µg/m ³
iv. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentration of PM 10, SO2 and NOx are anticipated in consultation with the SPCB. Data on ambient air quality and stack emission shall be regularly submitted to this Ministry including it's Regional Office at Bhubneswar and the SPCB /CPCB once in six months.	The ambient air quality at four places are monitored and copied with the stated condition. The report of Ambient Air Quality sampling is attached for your reference . Annexure – 2
v. Industrial waste water shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19 th May, 1993 and 31 st Dec., 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 .
vi. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including	Noise levels in around the Plant area is well under the limit and it is measured by third party agency – M/s. Shiva Test House (Patna) quarterly at different five

For **RAMCO INDUSTRIES LTD.**

Parbhik
(AUTHORISED SIGNATORY)

acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under EPA Rules, 1989 viz 75 dBA (daytime) and 70 dBA (nighttime).	places in the factory premises as well as shop floor. A report is enclosed for your reference ANNEXURE -2
vii. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	All first aid facilities are available with all resources. One doctor and compounder is available. Half yearly health check up through the third party – M/s. Ria Diagnostic, Bangalore is done.
viii. The company shall develop surface water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	We have complied with the said condition. Rain water harvesting pond of size 23x18x5 meter has been developed.
ix. The project proponent shall also comply with all the environmental protection measures and 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 and health care etc.	<ol style="list-style-type: none"> 1. Rs.23541 (35 Asbestos Sheets donation Ara Police station)CSR Activity at on Sep-2018. 2. Rs.4000 Smoke Fogging in Bihiya township for the eradication of mosquitoes 3. Park Development in Bihiya (In Progress Rs.80000 Approx) Likely complete. 4. 100 Nos MS drum donation to Gram panchyat Bihiya for Dustbin purpose.
x. Requisite amount shall be earmarked towards capital cost and recurring cost / annum for environment pollution control measures to implement the conditions stipulated by the Ministry of environment and forest as well as the State Government. An implementation schedule for implementing all the condition 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 purchase.	<p>Environmental Expenses details are</p> <p>Capital Expenses :-</p> <ul style="list-style-type: none"> • April 2018 to Sep- 2018 –Rs.00.00 <p>Recurring Expenses :-</p> <ul style="list-style-type: none"> • April-2018 to Sep- 2018 – Rs.734148.00
xi. A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad / Municipal Corporation, Urban Local Body and the Local NGO, If any, from whom suggestions/ Representations. If any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	We have complied with the said condition.
xii. The project proponent shall upload the status of compliance of the stipulated environment clearance condition, including results of monitor data on your website and 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 and the SPCB. The criteria pollutant levels namely: PM10, SO2, NOx, (ambient levels as well as stack emission) or critical sectoral parameters, indicated for the projects shall be monitored and	<p>The status of complains of the environment clearance condition along with all data has been being uploaded on the website and the same is being send to MoEF Ranchi, CPCB Calcutta, Monitoring cell MoEF Delhi and BSPCB Patna.</p> <p>The relevant display board for critical parameters has been displayed near the main gate in the public domain.</p>

For **RAMCO INDUSTRIES LTD.**

Pankaj K
 (AUTHORISED SIGNATORY)

<p>displayed at a convenient location near the main gate of the company in the public domain.</p>	
<p>xiii. The project proponent shall also submit Six Monthly report on the status of the compliance of the stipulated environmental condition including results of monitored data (both in hard copies as well as by e-mail) to the regional office of MOEF, the respective Zonal office of CPCB and the SPCB. The regional office of this ministry at Bhubaneswar /CPCB/SPCB shall monitor the stipulate condition.</p>	<p>The monitoring data has already been sent to the office along with the compliance report for the period of Oct-2017 to March-2018.</p>
<p>xiv. The environmental statement for each financial year ending 31st March in Formed – 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 condition and shall also be sent to the respective Regional office of MOEF at Bhubaneswar by Email.</p>	<p>Already sent for the financial year 2017-18 . A receipt of BSPCB is attached for your reference . ANNEXURE –7</p>
<p>xv. The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with SPCB and may also be seen at the Website of the Ministry of Environment and Forests at http://envfor.nic.in This shall be advertised within seven days from the date of the issue of the clearance letter , at least in two Local News Papers that are widely circulated in the region of which one shall be in the Vernacular language of the locality concerned and a copy of the same should be forwarded to the regional office at Bhubaneswar.</p>	<p>It is compiled and information given trough newspaper in the Vernacular language of the locality i.e. in Hindi.</p>
<p>xvi. Project authorities shall inform the regional office as well as the Ministry, the date of financial closer and final approval of the project by the concerned authorities and the date of commencing the land development work.</p>	<p>Complied & it was informed.</p>

For RAMCO INDUSTRIES LTD.

Pankaj k.
(AUTHORISED SIGNATORY)

Trees details in Bihiya Plant are given below:

Sr. No.	Name of Trees	Qty. in Nos.
1.	Neem Tree	431
2.	Jack fruit Tree	52
3.	Mango Tree	211
4.	Semar Jiren Tree	98
5.	Semar Tree	252
6.	Amla Tree	40
7.	Guava Tree	131
8.	Pinut Tree	20
9.	Ashoka Tree	67
10.	Bakin Tree	265
11.	Sagwan Tree	59
12.	Jamun (Syzygium Cumini) Tree	148
13.	Lichee Tree	45
14.	Black Sheesham Tree	294
15.	Sheesham Tree	78
16.	Kadamb Tree	210
17.	Badahal Tree	52
18.	Bel (Shree phal) Tree	6
19.	Banyan Tree	48
20.	Peepal Tree	59
21.	Pakad Tree	70
22.	Gular Tree	27
23.	Gulmohor Tree	111
24.	Cheta Chap Tree (Forest tree)	185
25.	Arjun Tree (Forest tree)	78
26.	Brad Tree (Forest tree)	209
27.	Local Tree	310
Total numbers of Trees		3556

FOR RAMCO INDUSTRIES LTD.
Pabji
 (AUTHORISED SIGNATORY)

Am - 6



Ramco Industries Limited



Ref.: RIL/BIH/ 03 /18-19/BSPCB

Date:-13.04.2018

To
The Member Secretary,
BIHAR STATE POLLUTION CONTROL BOARD
Parivesh Bhavan
NSB-02, Patliputra Industrial Area,
Patna - 800 010

Plot No. A1,
BIADA Industrial Area,
Opp. Mahathin Mai Temple
Bihiya - 802152
Dist : Bhojpur (BIHAR)
Ph. - 06181 - 241016, 241070

Sub : Yearly Environmental Statement of Form-V for the Period of April-2017 to March-2018.

Sir,

With reference to above subject, we are submitting here with the environmental statement form-V for the period of April-2017 to March-2018, for your kind information and record please.

Receipt of the same may kindly be acknowledged.

Thanking you,
Yours faithfully,

For, Ramco Industries Limited,

Pankaj

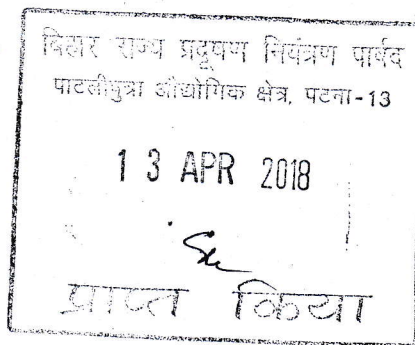
Pankaj Kumar
(Works Manager)

Encl:

1. Form-V
2. Stack monitoring, water and ambient air analysis report.
3. Work zone noise level & fibre count report.

CC: MoEF, Ranchi

✓ File copy.



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BIHAR (802152)
GSTIN No: APPLIEFOR12345
EF331577984IN
Counter No:1, (P-Code:001
Jachhe DIRECTOR,
RANCHI, PIN:834001
Promote RANCHI, BIHAR
13/04/2018 12:00:00
<Track on W>

Production Details

Month	Total Qty In Mt.
Apr-18	8003
May-18	8015
Jun-18	8700
Jul-18	10001
Aug-18	10070
Sep-18	9722
Total Production	54511



JR LABS

Ann-1

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
 PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
 AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR PIN- 802152

Sampler used : Samples collected by J R Labs using - Analyzed under : Olympus make, Japan,
 Spectro : SLE-PS-154:III, B X 40 Phase Contrast
 S K C AirLite & Microscope
 S K C 224-PCXR8:II

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
 (IS : 11450) Membrane
Sampling Duration : 60 minutes each Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
1	24.09.2018	<u>Static</u> Fibre Godown	Fibre bags were stored properly. Torn bags are sealed. Different Grades of Fibre bags are stored in the Fibre Godown.	< 0.1 (0.060)	---
2	24.09.2018	<u>Personal</u> B O D - E R Mill	The worker carrying the Sampler was engaged in feeding of fibre bags through the Roller Conveyor. Fibre bags are shifted through conveyor from Fibre Godown to B O D. E R Mill and Dust Collector in operation.	< 0.1 (0.064)	---
3	24.09.2018	<u>Static</u> E R Mill - Hydro disintegrator	The Static sample is collected from near E R Mill - Hydro disintegrator during the production of F C C sheets. E R Mill in Operation.	< 0.1 (0.048)	---

For J R LABS

Research Fibre Analyst





06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
S K C Side Kick 51 Ex, B X 40 Phase Contrast
Spectro : SLE-PS-154:I & Microscope
Envirotech - II

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
4	24.09.2018	<u>Personal</u> S F Drum - Cutter Off	The worker carrying the Sampler was cutting the sheets at green stage on main Machine along with another worker.	< 0.1 (0.068)	---
5	24.09.2018	<u>Static</u> Stripping	The Static sample is collected during the stripping of F C C sheets. Plant was in production.	< 0.1 (0.040)	---
6	24.09.2018	<u>Personal</u> M G section - Moulding	The worker carrying the Sampler was making R1 & R2 types of moulded articles during the period of sampling. Semi wet process.	< 0.1 (0.036)	---

For J R LABS

Research Fibre Analyst





06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
S K C 224-PCXR8:I, B X 40 Phase Contrast
Casella T13180 - I & Microscope
Casella T13180 - II

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
7	24.09.2018	<u>Personal</u> Salvaging Section	The worker carrying the Sampler was reclaiming the sheets. F C C rejected sheets were getting reclaimed. Wet process.	< 0.1 (0.080)	---
8	24.09.2018	<u>Personal</u> Ball Mill	The worker carrying the Sampler was engaged in operation of Ball Mill. Wet process.	< 0.1 (0.024)	---
9	24.09.2018	<u>Personal</u> Pulverizer	The worker carrying the Sampler was feeding broken F C C sheets through the chute of Pulverizer.	< 0.1 (0.096)	---

For J R LABS

Research Fibre Analyst





06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
Envirotech - I & B X 40 Phase Contrast
S K C AirLite Microscope

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
10	24.09.2018	<u>Personal</u> Fork Lift Operator	The Fork Lift Operator carrying the Sampler was engaged in different work activities like; shifting of sheets from Destacking area to Stock Yard during the period of sampling.	< 0.1 (0.092)	---
11	24.09.2018	<u>Personal</u> Q C Lab Assistant	The Q C Lab Assistant carrying the Sampler was engaged in different Lab activities during the period of sampling.	< 0.1 (0.028)	---

For J R LABS

Research Fibre Analyst



JR LABS

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ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
 PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
 AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
 Spectro : SLE-PS-154:II B X 40 Phase Contrast
 Microscope

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes (IS : 11450) Membrane
 Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
12	24.09.2018	<u>Static</u> Work Zone Area of the Plant	The Static sample is collected during the production of F C C sheets.	< 0.1 (0.036)	---

For J R LABS

Research Fibre Analyst





JR LABS

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No. 1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
Envirotech – III, B X 40 Phase Contrast
Casella AFC 123 & Microscope
S K C 224 – PCXR8: II

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
13	24.09.2018	<u>Static</u> Ambient Air: Stock Yard- Sheet Loading Area	The Static sample is collected from Stock Yard - Sheet Loading Area during loading of different sizes of F C C sheets into the Truck.	< 0.1 (0.052)	---
14	24.09.2018	<u>Static</u> Ambient Air: Near Main Gate	The Static sample is collected from near the Main Gate. Plant was in operation.	< 0.1 (0.072)	---
15	24.09.2018	<u>Static</u> Ambient Air :- Near Canteen	The Static sample is collected from near Canteen. Plant was in operation.	< 0.1 (0.056)	---

For J R LABS

Research Fibre Analyst



JR LABS

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health

T C : September'18 - Stack - E R M - A F C :

06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

FIBRE D E STACK

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Envirotech VSS1 **Analyzed under** : Olympus make, Japan,
B X 40 Phase Contrast
Microscope

Flow rate : 10 L P M **Specifications** : As per A I A - R T M 1
(IS:11450) & ISO:10397
Membrane Filter Method

Sampling Duration : 10 minutes

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.2 fibre per cc of air.

Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
24.09.2018	Fibre D E Stack connected to B O D & Edge Runner Mill	---	0.014	---

For J R LABS

Research Fibre Analyst

JRL ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES
 Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine,
 Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

T C : September'18 - Stack – Pulverizer - A F C :

06.10.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

FIBRE D E STACK

Project : M/s. RAMCO INDUSTRIES Ltd.,
 PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
 AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Envirotech VSS1 **Analyzed under** : Olympus make, Japan,
 B X 40 Phase Contrast
 Microscope

Flow rate : 10 L P M **Specifications** : As per A I A - R T M 1
 (IS:11450) & ISO:10397

Sampling Duration : 10 minutes **Membrane Filter Method**

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.2 fibre per cc of air.

Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
24.09.2018	Fibre D E Stack connected to Pulverizer	---	0.168	---

For J R LABS



Research Fibre Analyst



15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
 PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
 AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
 Casella AFC 123, B X 40 Phase Contrast
 S K C 224-PCXR8:I & Microscope
 Casella T13180 - II

Flow rate : 1.0 L P M

Specifications : As per A I A - R T M 1
 (IS : 11450) Membrane
 Filter Method

Sampling Duration : 60 minutes each

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
1	06.06.2018	<u>Static</u> Fibre Godown	Fibre bags were stored properly. Torn bags are sealed. Different Grades of Fibre bags are stored in the Fibre Godown.	< 0.1 (0.040)	---
2	06.06.2018	<u>Personal</u> B O D - E R Mill	The worker carrying the Sampler was engaged in feeding of fibre bags through the Roller Conveyor. Fibre bags are shifted through conveyor from Fibre Godown to B O D. E R Mill and Dust Collector in operation.	< 0.1 (0.092)	---
3	06.06.2018	<u>Static</u> E R Mill - Hydro disintegrator	The Static sample is collected from near E R Mill - Hydro disintegrator during the production of F C C sheets. E R Mill in Operation.	< 0.1 (0.088)	---

For J R LABS

Research Fibre Analyst





15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
S K C AirLite, B X 40 Phase Contrast
Casella T13180 - I & Microscope
S K C 224-PCXR8:II

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
4	06.06.2018	<u>Personal</u> S F Drum - Cutter Off	The worker carrying the Sampler was cutting the sheets at green stage on main Machine along with another worker.	< 0.1 (0.032)	---
5	06.06.2018	<u>Static</u> Stripping	The Static sample is collected during the stripping of F C C sheets. Plant was in production.	< 0.1 (0.084)	---
6	06.06.2018	<u>Personal</u> M G section - Moulding	The worker carrying the Sampler was making R1 & R2 types of moulded articles during the period of sampling. Semi wet process.	< 0.1 (0.052)	---

For J R LABS

Research Fibre Analyst



JR LABS

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
Envirotech - I, B X 40 Phase Contrast
S K C 224-PCXR8:I & Microscope
S K C Side Kick 51Ex

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B, = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
7	06.06.2018	<u>Personal</u> Salvaging Section	The worker carrying the Sampler was reclaiming the sheets. F C C rejected sheets were getting reclaimed. Wet process.	< 0.1 (0.072)	---
8	06.06.2018	<u>Personal</u> Ball Mill	The worker carrying the Sampler was engaged in operation of Ball Mill. Wet process.	< 0.1 (0.092)	---
9	06.06.2018	<u>Personal</u> Pulverizer	The worker carrying the Sampler was feeding broken F C C sheets through the chute of Pulverizer.	< 0.1 (0.080)	---

For J R LABS

Research Fibre Analyst



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ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
S K C 224-PCXR8:II & B X 40 Phase Contrast
S K C AirLite Microscope

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
10	06.06.2018	<u>Personal</u> Fork Lift Operator	The Fork Lift Operator carrying the Sampler was engaged in different work activities like; shifting of sheets from Destacking area to Stock Yard during the period of sampling.	< 0.1 (0.056)	---
11	06.06.2018	<u>Personal</u> Q C Lab Assistant	The Q C Lab Assistant carrying the Sampler was engaged in different Lab activities during the period of sampling.	< 0.1 (0.060)	---

For J R LABS

Research Fibre Analyst

B-305 & 309, Vasudha Apartments,
Quthbullapur Road, New Jeedimetla,
HYDERABAD - 500 067,
TELANGANA, INDIA.



☎ : 040-42300546, 27230750, 27230966

Fax : 040-23775321

E-mail : jrlabs@gmail.com

jrlabs@rediffmail.com



15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
Spectro : SLE-PS-154:I B X 40 Phase Contrast
Microscope

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes (IS : 11450) Membrane
Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV)
AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
12	06.06.2018	<u>Static</u> Work Zone Area of the Plant	The Static sample is collected during the production of F C C sheets.	< 0.1 (0.068)	---

For J R LABS

Research Fibre Analyst



15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

Project : M/s. RAMCO INDUSTRIES Ltd.,
 PLOT NO.A-1, BIADA-INDUSTRIAL AREA-OPP. MAHATHIN MAI TEMPLE
 AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Samples collected by J R Labs using **Analyzed under** : Olympus make, Japan,
 Spectro : SLE-PS-154:II, B X 40 Phase Contrast
 Spectro : SLE-PS-154:III & Microscope
 Envirotech - II

Flow rate : 1.0 L P M **Specifications** : As per A I A - R T M 1
Sampling Duration : 60 minutes each (IS : 11450) Membrane
 Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.1 fibre per cc of air.

Sl. No.	Date of Sampling	Location	Condition	Dust Concentration fibre /cc of air	Remarks
13	06.06.2018	<u>Static</u> Ambient Air: Stock Yard- Sheet Loading Area	The Static sample is collected from Stock Yard - Sheet Loading Area during loading of different sizes of F C C sheets into the Truck.	< 0.1 (0.040)	---
14	06.06.2018	<u>Static</u> Ambient Air: Near Main Gate	The Static sample is collected from near the Main Gate. Plant was in operation.	< 0.1 (0.072)	---
15	06.06.2018	<u>Static</u> Ambient Air :- Near Canteen	The Static sample is collected from near Canteen. Plant was in operation.	< 0.1 (0.020)	---

For J R LABS

Research Fibre Analyst



JR LABS

15

ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as 'No.1' Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh, U.K., World Health Organization Collaborating Centre for Occupational Health.

T C : June'18 - Stack - E R M - A F C :

15.06.2018

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

FIBRE D E STACK

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Envirotech VSS1 **Analyzed under** : Olympus make, Japan,
B X 40 Phase Contrast
Microscope

Flow rate : 10 L P M **Specifications** : As per A I A - R T M 1
(IS:11450) & ISO:10397
Membrane Filter Method

Sampling Duration : 10 minutes

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.2 fibre per cc of air.

Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
06.06.2018	Fibre D E Stack connected to B O D & Edge Runner Mill	---	0.067	---

For J R LABS

Research Fibre Analyst





JR LABS

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ENVIRONMENT & OCCUPATIONAL HEALTH SERVICES

Rated as "No.1" Laboratory for Counting of Asbestos Fibre by Institute of Occupational Medicine, Edinburgh U.K., World Health Organization Collaborating Centre for Occupational Health.

T C : June'18 - Stack - Pulverizer - A F C :

15.06.2017

REPORT ON RESPIRABLE ASBESTOS FIBRE DUST CONCENTRATION

FIBRE D E STACK

Project : M/s. RAMCO INDUSTRIES Ltd.,
PLOT NO.A-1, BIADA INDUSTRIAL AREA OPP. MAHATHIN MAI TEMPLE
AT & PO- BIHIYA, DT.- BHOJPUR, BIHAR, PIN- 802152

Sampler used : Envirotech VSS1 **Analyzed under** : Olympus make, Japan,
B X 40 Phase Contrast
Microscope

Flow rate : 10 L P M **Specifications** : As per A I A - R T M 1
(IS:11450) & ISO:10397

Sampling Duration : 10 minutes Membrane Filter Method

PERMISSIBLE EXPOSURE LIMIT VALUE (PELV) AS PER MoEF & P C B = 0.2 fibre per cc of air.

Date of sampling	Location	Condition	Dust concentration fibre /cc of air	Remarks
06.06.2018	Fibre D E Stack connected to Pulverizer	---	0.113	---

For J R LABS

Research Fibre Analyst



Regd. Office :
 10 Extn. ; (Chatterjee Lane)
 Gardanibagh
 PATNA - 800 001 (Bihar)



Laboratory Address :-
 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247533/ 2240752 ; TeleFax : 0612 - 2590705
 E.mail.: shpatna1@yahoo.co.in



ISO 18001:2007
 OHSAS Certified

RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986), BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD & ACCREDITED BY NABL

TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(a)</i> Dt: <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>18.09.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>30.09.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>01.10.18</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>01.10.18 / 04.10.18</i>			
Parameters	Method of Test	Results		
1. Stack Connected to		Fibre Circuit		
2. Stack No.		I		
3. Height of Stack (as reported)		30.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		49.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.9	
10. Volumetric Flow Rate (NM ³ /hr.)			2468.9	
11. Sampling Point			10 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.6	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	Not Detectable	---	



[Signature]
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

Office :
Extn. ; (Chatterjee Lane)
Gardanibagh
PATNA - 800 001 (Bihar)



Laboratory Address :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in

JAS ANZ



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OHSAS Certified

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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(b)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 30.09.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	01.10.18			
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 04.10.18			
Parameters	Method of Test	Results		
1. Stack Connected to	•	Cement / Fly Ash Circuit		
2. Stack No.		11		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		54.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.6	
10. Volumetric Flow Rate (NM ³ /hr.)			2307.5	
11. Sampling Point			5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	41.6	100.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	12.4	---	



[Signature]

Authorized Signatory
Quality Manager / Dy. Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

Office :

Patna ; (Chatterjee Lane)
 Patna - 800 001 (Bihar)



Laboratory Address :-
 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

JAS ANZ



ISO 18001:2007
 OHSAS Certified

SHIVA TEST HOUSE

Tel. : 0612 - 2247550/2240752 ; TeleFax : 0612 - 2590705
 E.mail.: sthpatna1@yahoo.co.in

RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986, BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD & ACCREDITED BY NABL

TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(c)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 30.09.18			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	01.10.18			
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 04.10.18			
Parameters	Method of Test	Results		
1. Stack Connected to	•	Pulveriser Plant		
2. Stack No.		III		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		47.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.3	
10. Volumetric Flow Rate (NM ³ /hr.)			313.8	
11. Sampling Point		5 m.		
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.87	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	10.1	---	



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 Rukunpura
 PATNA - 800 001 (Bihar)



Laboratory Address :-
 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 300 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
 E.mail.: sthpatna1@yahoo.co.in

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TEST REPORT

Ref. No. *RIL/TR/18-19/548(d)* Dt : *08.10.2018* Your Work Order No. *MANUAL/RIL/BIH* Dt : *18.09.2018*

[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>30.09.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>01.10.18</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>01.10.18 / 04.10.18</i>			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 1010 KVA		
2. Stack No.		IV		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		196.0		
9. Velocity, m/sec.	IS 11255 (Part-3)	10.3		
10. Volumetric Flow Rate (NM ³ /hr.)		323.2		
11. Sampling Point		3.5 m.		
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	48.4	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	33.2	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	218.1	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	14.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	42.0	150.00 mg / NM ³	



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Gardanibagh
PATNA - 800 001 (Bihar)



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01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail : sthpatna1@yahoo.co.in

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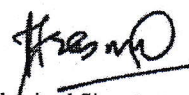
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(e)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 30.09.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	01.10.18			
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 04.10.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 750 KVA		
2. Stack No.		V		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		181.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	8.9	
10. Volumetric Flow Rate (NM ³ /hr.)			371.4	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	31.6	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	33.1	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	187.1	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	10.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	24.0	150.00 mg / NM ³	




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Quality Manager / Dy. Quality Manager

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Gardanibagh
PATNA – 800 001 (Bihar)



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01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA – 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 – 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in

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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(f)</i> Dt: <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>18.09.2018</i>						
[a] Name and address of the Customer			RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152			
[b] Details of Sample			Borewell Water			
[c] Sample Collected by			SHIVA TEST HOUSE on 30.09.18			
[d] Sampling Location			Near Godown			
[e] Method of Sampling			IS 3025, APHA			
[f] Sampling Environmental Condition			Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)			Plastic Bottle (02)			
[h] Sample Quantity			2 Litres			
[i] Items required to be tested			As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer			No			
[k] Date of receiving the sample in Laboratory			01.10.18			
[l] Analysis Start Date / Analysis Completion Date			01.10.18 / 04.10.18			
S.N.	Parameters	Limit as per IS 10500 : 2012		Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity, & pH	
		Limit (mg/l.) Desirable	Permissible Limit in the absence of alternative source			
1	Colour	5.0 Hazen Limit	25	IS 3025 (Part-4)	<5.00	
2	Odour	Agreeable	---	IS 3025 (Part-5)	Agreeable	
3	Taste	Agreeable	---	IS 3025 (Part-7))	Agreeable	
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	7.28	
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.0	
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-15)	411.0	
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	268.0	
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	48.1	
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-40)	36.0	
10	Iron as Fe	0.30	No relaxation	IS 3025 (Part-53)	0.16	
11	Residual Free Chlorine	0.20	1.00	IS 3025 (Part-26)	<0.1	
12	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	252.0	
13	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	18.0	
14	Sulphate as SO ₄	200.00	400.00	IS 3025 (Part-24)	15.7	
15	Nitrate as NO ₃	45.00	No relaxation	IS 3025 (Part-34)	5.1	
16	Fluoride as F	1.00	1.50	APHA (4500 F D)	0.48	



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Extn. : (Chatterjee Lane)
Gardanibagh
PATNA - 800 001 (Bihar)



Laboratory Address :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail. : sthpatna1@yahoo.co.in

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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(g)</i> Dt: <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>18.09.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	<i>Sewerwell Water</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>30.09.18</i>			
[d] Sampling Location	<i>Near Godown</i>			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C) <i>32</i> Humidity (%) <i>76</i>			
[g] Details of Sample Container (No. & Type of Container)	Glass Bottle (01)			
[h] Sample Quantity	300 ml			
[i] Items required to be tested	As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>01.10.18</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>01.10.18 / 04.10.18</i>			
BACTERIOLOGICAL EXAMINATION OF WATER AS PER IS 1622 - 1981				
<i>Coliform (Most Probable Number of Organisms per 100 ml. of sample and confidence limit using 1 tube of 50 ml., 5 tubes of 10 ml. and 5 tubes of 1 ml.)</i>				
Sample	Media Strength	No. of Tubes	Observation for Acid / Gas formation at 37 °C after	
			24 Hr.	48 Hr.
50 ml.	Double Strength	1	-	-
10 ml.	-- do --	5	-	-
1 ml.	Single Strength	5	-	-
Result - MPN Organisms Values -- Not Detected in 100 ml. (Limit : Shall not be Detectable in 100 ml.)				



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Quality Manager / Dy. Quality Manager

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 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2211300 / 2240752 ; TeleFax : 0612 - 2590705
 E.mail.: sthpatna1@yahoo.co.in

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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(h)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>						
[a] Name and address of the Customer			RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample			<i>Drinking Water</i>			
[c] Sample Collected by			SHIVA TEST HOUSE on <i>30.09.18</i>			
[d] Sampling Location			<i>from Canteen Aquaguard</i>			
[e] Method of Sampling			IS 3025, APHA			
[f] Sampling Environmental Condition			Temp. (°C)	32	Humidity (%)	76
[g] Details of Sample Container (No. & Type of Container)			Plastic Bottle (02)			
[h] Sample Quantity			2 Litres			
[i] Items required to be tested			As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer			No			
[k] Date of receiving the sample in Laboratory			<i>01.10.18</i>			
[l] Analysis Start Date / Analysis Completion Date			<i>01.10.18 / 04.10.18</i>			
		<i>Limit as per IS 10500 : 2012</i>				
S.N.	Parameters	Limit (mg/l.) Desirable	Permissible Limit in the absence of alternative source	Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity & pH	
1	Colour	5.0 Hazen Limit	25	IS 3025 (Part-4)	<5.00	
2	Odour	Agreeable	---	IS 3025 (Part-5)	Agreeable	
3	Taste	Agreeable	---	IS 3025 (Part-7))	Agreeable	
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	7.24	
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.00	
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-15)	249.0	
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	144.0	
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	32.0	
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-40)	15.5	
10	Iron as Fe	0.30	No relaxation	IS 3025 (Part-53)	0.13	
11	Residual Free Chlorine	0.20	1.00	IS 3025 (Part-26)	<0.1	
12	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	200.0	
13	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	14.0	
14	Sulphate as SO ₄	200.00	400.00	IS 3025 (Part-24)	12.8	
15	Nitrate as NO ₃	45.00	No relaxation	IS 3025 (Part-34)	2.1	
16	Fluoride as F	1.00	1.50	APHA (4500 F D)	0.34	

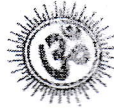


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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(i)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihaya Bhojpur - 802 152			
[b] Details of Sample	Drinking Water			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>30.09.18</i>			
[d] Sampling Location	from Canteen Aquaguard			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%) 76	
[g] Details of Sample Container (No. & Type of Container)	Glass Bottle (01)			
[h] Sample Quantity	300 ml			
[i] Items required to be tested	As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>01.10.18</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>01.10.18 / 04.10.18</i>			
BACTERIOLOGICAL EXAMINATION OF WATER AS PER IS 1622 - 1981				
Coliform (Most Probable Number of Organisms per 100 ml. of sample and confidence limit using 1 tube of 50 ml., 5 tubes of 10 ml. and 5 tubes of 1 ml.)				
Sample	Media Strength	No. of Tubes	Observation for Acid / Gas formation at 37 °C after	
			24 Hr.	48 Hr.
50 ml.	Double Strength	1	-	-
10 ml.	-- do --	5	-	-
1 ml.	Single Strength	5	-	-
Result - MPN Organisms Values -- Not Detected in 100 ml. (Limit : Shall not be Detectable in 100 ml.)				



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Extn. ; (Chatterjee Lane)
Gardani'bagh
PATNA - 800 001 (Bihar)



Laboratory Address :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(j)</i> Dt: <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>18.09.2018</i>				
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152		
[b] Details of Sample		<i>Effluent Sample</i>		
[c] Sample Collected by		SHIVA TEST HOUSE on <i>30.09.18</i>		
[d] Sampling Location		<i>from Final Discharge Point</i>		
[e] Method of Sampling		IS 3025, APHA		
[f] Sampling Environmental Condition		Temp. (°C)	32	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)		
[h] Sample Quantity		2 Litres		
[i] Items required to be tested		As per contract.		
[j] Whether any specific Method of Test has been suggested by the customer		No		
[k] Date of receiving the sample in Laboratory		<i>01.10.18</i>		
[l] Analysis Start Date / Analysis Completion Date		<i>01.10.18 / 04.10.18</i>		
S. N.	Parameters	Method of Test	Limit as per E (P) Rules Schedule VI	Result(in mg/l.) except pH, Colour
1	Colour	IS 3025 (Part-4)	Not Specified	Colourless
2	pH	IS 3025 (Part-11)	5.5 to 9.0	7.21
3	Suspended Solids	IS 3025(Part-17)	100.00	60.0
4	Oil & Grease	IS 3025 (Part-39)	10.00	<1.0
5	B.O.D.(3 days at 27°C)	IS 3025 (Part-44)	30.00	22.0
6	C.O.D.	APHA 5220 B	250.00	76.0
7	Dissolved Phosphate as P	APHA (4500-P-D)	5.00	1.1
8	Fluoride as F	APHA 4500 (F D)	5.00	0.32
9	Ammonical Nitrogen as N	IS 3025 (Part-34)	50.00	13.7
10	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	100.00	21.8



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 PATNA - 800 001 (Bihar)



Laboratory Address :-
 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538/ 2240752 ; TeleFax : 0612 - 2590705
 E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(k)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>				
[a]	Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152		
[b]	Sampling Environmental Condition	Temp. (°C)	32	Humidity (%) 76
[c]	Details of Sample	Monitoring of Ambient Noise Level at Ramco Bihiya		
[d]	Monitored by	SHIVA TEST HOUSE on 30.09.18		
[e]	Whether any specific Method of Test has been suggested by the party	No		
	Sampling Location	Time Weighted Average (TWA) of Noise Level in dB(A)		
1.	Near Main Gate	61.4		
2.	Near Office	58.1		
3.	Near Stripping Area	63.8		
4.	Near Fibre Mill	65.6		
5.	Near DG Room	71.6		
N.B.:	The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zone.			



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(l)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>			
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BiADA Industrial Area Bihiya Bhojpur - 802 152		
[b] Details of Sample	Monitoring of Respirable Dust in Work Zone Area		
[c] Sample Collected by	Shiva Test House on 30.09.18		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (^o C)	32	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger		
[h] Sample Quantity	04		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	01.10.18		
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 04.10.18		
S. N.	Sampling Point	Concentration of Respirable Dust (PM ₁₀)	
		[08 hrs.] (µg/M ³)	Limit as NAAQS Nov.'2009 (µg/M ³)
1	Fibre Mill Area	46.2	100.0
2	Hatscheck Machine Area	28.4	
3	Stripping Machine Area	24.6	
4	Pulverizer Area	36.1	



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SHIVA TEST HOUSE

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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(m)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>						
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152					
[b] Details of Sample	Monitoring of Ambient Air Quality					
[c] Sample Collected by	Shiva Test House on 30.09.18					
[d] Sampling Location	Premises of Ramco Bihya					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 32 Humidity (%) 76					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	12					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	01.10.18					
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 04.10.18					
Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. 2009
		Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	67.0	83.6	87.3	77.7	100 µg / m ³
		61.4	71.8	83.4	68.5	
		52.7	65.3	78.2	67.4	
2. Particulate Matter (PM _{2.5}), µg / m ³	USEPA	38.3	48.2	45.5	43.5	60 µg / m ³
		31.2	42.1	42.6	35.8	
		29.5	34.2	38.4	32.7	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	10.8	14.5	16.2	11.0	80 µg / m ³
		11.8	17.0	17.6	14.8	
		12.9	13.0	19.3	10.1	
		9.3	10.5	14.6	8.6	
		8.2	8.0	13.0	7.6	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	29.8	45.0	52.2	40.7	80 µg / m ³
		34.7	43.2	54.5	42.9	
		37.6	38.7	56.8	34.3	
		28.5	34.9	49.8	31.5	
		26.4	33.1	46.7	29.6	
29.4	36.5	45.1	33.6			
Average Value						
PM ₁₀		60.4	73.6	83.0	71.2	
PM _{2.5}		33.0	41.5	42.1	37.4	
SO ₂		10.5	12.5	15.4	10.3	
NO ₂		31.1	38.6	50.9	35.4	



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 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA – 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 – 2247538/ 2240752 ; TeleFax : 0612 - 2590705
 E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(n)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>						
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152					
[b] Details of Sample	Monitoring of Ambient Air Quality					
[c] Sample Collected by	Shiva Test House on 30.09.18					
[d] Sampling Location	Premises of Ramco Bihiya					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 32 Humidity (%) 76					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	5					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	01.10.18					
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 04.10.18					
Parameters	Method of Test	Sampling Station				Limit as per EPA Notification ($\mu\text{g} / \text{m}^3$)
		Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	
1. Carbon Monoxide (CO), mg / m^3	IS 5182 (Part-10)	0.18	0.88	0.15	0.11	4 mg / m^3
2. Lead (Pb), $\mu\text{g} / \text{m}^3$	IS 5182 (Part-22)	BDL	BDL	BDL	BDL	1 $\mu\text{g} / \text{m}^3$
3. Ammonia as NH_3 , $\mu\text{g} / \text{m}^3$	IS 5182 (Part-5)	NIL	NIL	NIL	NIL	400 $\mu\text{g} / \text{m}^3$
4. Ozone (O_3), $\mu\text{g} / \text{m}^3$	IS 5182 (Part-9)	8.9	12.1	16.4	10.2	180 $\mu\text{g} / \text{m}^3$
5. Benzene (C_6H_6), $\mu\text{g} / \text{m}^3$	IS 5182 (Part-22)	BDL	BDL	BDL	BDL	5 $\mu\text{g} / \text{m}^3$
6. Arsenic (As), ng / m^3	AAS Method	BDL	BDL	BDL	BDL	6 ng / m^3
7. Nickel as Ni, ng / m^3	AAS Method	BDL	BDL	BDL	BDL	20 ng / m^3
CO : BDL Denotes Below Detectable Limit < 21.09 ($\mu\text{g} / \text{m}^3$)		Pb : BDL Denotes Below Detectable Limit < 0.02 ($\mu\text{g} / \text{m}^3$)				



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Laboratory Address :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA – 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 – 2247538/ 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthatna1@yahoo.co.in

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TEST REPORT

Ref. No. <i>RIL/TR/18-19/548(o)</i> Dt : <i>08.10.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>18.09.2018</i>						
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152					
[b] Details of Sample	Monitoring of Ambient Air Quality					
[c] Sample Collected by	Shiva Test House on 30.09.18					
[d] Sampling Location	Premises of Ramco Bihya					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 32 Humidity (%) 76					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	1					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	01.10.18					
[l] Analysis Start Date / Analysis Completion Date	01.10.18 / 03.10.18					
Parameters	Method of Test	Sampling Station				Limit as per EPA Notification (µg / m ³)
		Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	
1. Benzo (a) Pyrene, (Particulate Phase only) ng / m ³	IS 5182 (Part-10)	<0.1	<0.1	< 0.1	< 0.1	1.0 ng / m ³



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Gardanibagh
PATNA - 800 001 (Bihar)



LABORATORY ADDRESS :-
01st FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 004 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240755 TeleFax : 0612 - 2590705
E.mail. : sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. RIL/TR/18-19/416(a) Dt : 18.08.2018 Your Work Order No. MANUAL/RIL/BIH/18 Dt. 10.04.2018

[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 12.08.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1, 2, 3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	85
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.08.18			
[l] Analysis Start Date / Analysis Completion Date	13.08.18 / 16.08.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Fibre Circuit		
2. Stack No.		1		
3. Height of Stack (as reported)		30.0 m		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		41.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	7.3	
10. Volumetric Flow Rate (NM ³ /hr.)			3132.5	
11. Sampling Point			10 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.58	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	Not Detectable	---	



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 NEAR CANAL, RUKUNPURA,
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SHIVA TEST HOUSE

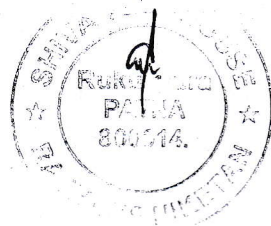
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TEST REPORT

Ref. No. RIL/TR/18-19/416(b) Dt : 18.08.2018 Your Work Order No. MANUAL/RIL/BIH/18 Dt : 10.04.2018				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 12.08.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	85
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.08.18			
[l] Analysis Start Date / Analysis Completion Date	13.08.18 / 16.08.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Cement / Fly Ash Circuit		
2. Stack No.		11		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		44.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.9	
10. Volumetric Flow Rate (NM ³ /hr.)			2507.8	
11. Sampling Point			5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	35.4	100.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	14.8	---	



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 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

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Ref. No. <i>RIL/TR/18-19/416(c)</i> Dt : <i>18.08.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18 Dt: 00.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD Plot No. A 1, BIADA Industrial Area Plot No. 1 Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>12.08.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>12.08.18</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>13.08.18 / 16.08.18</i>			
Parameters	Method of Test	Results		
1. Stack Connected to		Pulveriser Plant		
2. Stack No.		111		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		40.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.1	
10. Volumetric Flow Rate (NM ³ /hr.)			308.7	
11. Sampling Point			5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.21	2.0 mg / NM³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	11.6	---	



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 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

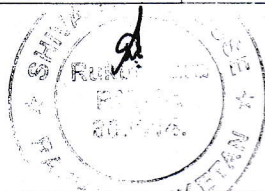
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 E.mail. : sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. RIL/TR/18-19/416(d) Dt : 18.08.2018 Your Work Order No. MANUAL/RIL/BIH/18 Dt : 10.04.2018				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 12.08.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1, 2, 3 & 7)			
[f] Sampling Environmental Condition	Temp (°C)	32	Humidity (%) 85	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.08.18			
[l] Analysis Start Date / Analysis Completion Date	13.08.18 / 16.08.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 1010 KVA		
2. Stack No.		IV		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		212.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	11.2	
10. Volumetric Flow Rate (NM ³ /hr.)			437.5	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	51.4	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	38.7	Not Specified	
14. Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	216.4	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	20.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	52.0	150.00 mg / NM ³	



Handwritten Signature
 18/8/18
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

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Office :
Chatterjee Lane)
Patna - 800 001 (Bihar)



LABORATORY ADDRESS :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. RIL/TR/18-19/416(e) Dt : 18.08.2018 Your Work Order No. MANUAL/RIL/BIH/18 Dt : 10.04.2018				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 12.08.18			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	32	Humidity (%)	85
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.08.18			
[l] Analysis Start Date / Analysis Completion Date	13.08.18 / 16.08.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 750 KVA		
2. Stack No.		V		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		32.0		
8. Flue Gas Temperature, °C		188.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	10.6	
10. Volumetric Flow Rate (NM ³ /hr.)			435.6	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	48.7	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	33.4	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	192.8	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	18.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	30.0	150.00 mg / NM ³	



[Signature]
18/8/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Gardenbagh
PATNA - 800 001 (Bihar)



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NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

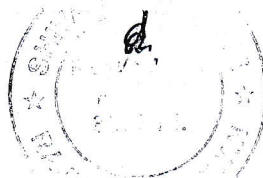
Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/374(a)</i> Dt : <i>02.08.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 27.07.18			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	34	Humidity (%)	82
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	27.07.18			
[l] Analysis Start Date / Analysis Completion Date	28.07.18 / 31.07.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Fibre Circuit		
2. Stack No.		1		
3. Height of Stack (as reported)		30.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		34.0		
8. Flue Gas Temperature, °C		46.0		
9. Velocity, m/sec.	IS 11255 (Part-3)	6.6		
10. Volumetric Flow Rate (NM ³ /hr.)		2787.0		
11. Sampling Point		10 m.		
		Concentration (mg / NM ³)	Limit as per I (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.43	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	Not Detectable	---	



[Signature]
02/08/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Kegd. Office :
6D Extn. : (Chatterjee Lane)
Gardanibagh
PATNA - 800 001 (Bihar)



LABORATORY ADDRESS :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2500005
E. mail. : sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/374(b)</i> Dt : <i>02.08.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on 27.07.18			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	34	Humidity (%)	82
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	27.07.18			
[l] Analysis Start Date / Analysis Completion Date	28.07.18 / 31.07.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Cement / Fly Ash Circuit		
2. Stack No.		11		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		34.0		
8. Flue Gas Temperature, °C		48.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	6.2	
10. Volumetric Flow Rate (NM ³ /hr.)			2602.5	
11. Sampling Point			5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	37.2	100.00 mg / NM³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	18.7	---	



Hanno
02/08/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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Gardanibagh
PATNA - 800 001 (Bihar)



LABORATORY ADDRESS :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/374(c)</i> Dt : <i>02.08.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur -- 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 27.07.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	34	Humidity (%)	82
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	27.07.18			
[l] Analysis Start Date / Analysis Completion Date	28.07.18 / 31.07.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Pulveriser Plant		
2. Stack No.		111		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		34.0		
8. Flue Gas Temperature, °C		43.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.8	
10. Volumetric Flow Rate (NM ³ /hr.)			347.7	
11. Sampling Point			5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.38	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	13.6	---	



Hanno
02/08/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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LABORATORY ADDRESS :-
01st FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 Fax : 0612 - 2590705
E.mail.: sthatna1@yahoo.co.in

IAS-AMZ

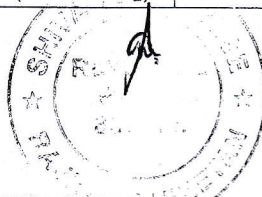


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TEST REPORT

Ref. No. <i>RIL/TR/18-19/374(d)</i> Dt : <i>02.08.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>27.07.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	34	Humidity (%)	82
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	27.07.18			
[l] Analysis Start Date / Analysis Completion Date	28.07.18 / 31.07.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 1010 KVA		
2. Stack No.		IV		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		34.0		
8. Flue Gas Temperature, °C		234.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	10.9	
10. Volumetric Flow Rate (NM ³ /hr.)			407.3	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	49.1	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	35.0	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	194.6	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	15.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	40.0	150.00 mg / NM ³	



[Signature]
02/08/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/374(e)</i> Dt : <i>02.08.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 27.07.18			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (^o C)	34	Humidity (%)	82
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	27.07.18			
[l] Analysis Start Date / Analysis Completion Date	28.07.18 / 31.07.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 750 KVA		
2. Stack No.		V		
3. Height of Stack (as reported)		9.0 m		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, ^o C		34.0		
8. Flue Gas Temperature, ^o C		210.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	9.8	
10. Volumetric Flow Rate (NM ³ /hr.)			384.4	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	44.6	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	31.8	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	181.6	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	10.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	22.0	150.00 mg / NM ³	



[Signature]
 02/08/18
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

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 Bihari Bazar
 Patna - 800 001 (Bihar)



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 01st FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

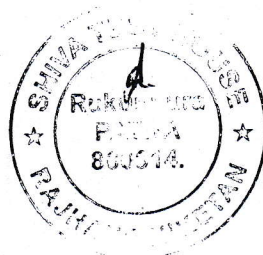
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 E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. RIL/TR/18-19/317(a) Dt: 17.07.2018		Your Work Order No. MANUAL/RIL/BIH Dt: 10.06.2018	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152		
[b] Details of Sample	Monitoring of Stack Emission		
[c] Sample Collected by	SHIVA TEST HOUSE on 20.06.18		
[d] Sampling Location	Premises of Ramco Bihiya		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Sample Quantity	1		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	21.06.18		
[l] Analysis Start Date / Analysis Completion Date	21.06.18 / 23.06.18		
Parameters	Method of Test	Results	
1. Stack Connected to		Fibre Circuit	
2. Stack No.		1	
3. Height of Stack (as reported)		30.0 m.	
4. Dia of Stack at Top (as reported)		0.4 m.	
5. Draft		Natural	
6. Material of Construction		M.S.	
7. Ambient Temperature, °C		31.0	
8. Flue Gas Temperature, °C		43.0	
9. Velocity, m/sec.	IS 11255 (Part-3)	5.9	
10. Volumetric Flow Rate (NM ³ /hr.)		2515.7	
11. Sampling Point		10 m.	
		Concentration (mg / NM ³)	Limit as per F (P) Rules Schedule I
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.25	2.0 mg / NM ³
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	Not Detectable	---



[Signature]
 17/07/18
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

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3. Test Report enclosed only for basis and not the product certificate.
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LABORATORY ADDRESS :-
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NEAR CANAL, RUKUNPURA,
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SHIVA TEST HOUSE

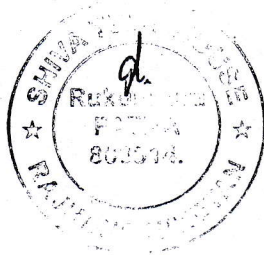
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(b)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>10.06.2018</i>			
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152		
[b] Details of Sample	<i>Monitoring of Stack Emission</i>		
[c] Sample Collected by	SHIVA TEST HOUSE on <i>20.06.18</i>		
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C) <i>31</i> Humidity (%) <i>72</i>		
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Sample Quantity	<i>2</i>		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	<i>21.06.18</i>		
[l] Analysis Start Date / Analysis Completion Date	<i>21.06.18 / 23.06.18</i>		
Parameters	Method of Test	Results	
1. Stack Connected to		Cement / Fly Ash Circuit	
2. Stack No.		II	
3. Height of Stack (as reported)		15.0 m.	
4. Dia of Stack at Top (as reported)		0.4 m.	
5. Draft		Natural	
6. Material of Construction		M.S.	
7. Ambient Temperature, °C		31.0	
8. Flue Gas Temperature, °C		45.0	
9. Velocity, m/sec.		IS 11255 (Part-3)	7.3
10. Volumetric Flow Rate (NM ³ /hr.)			3093.1
11. Sampling Point			5 m.
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	43.4	100.00 mg / NM³
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	15.1	---



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Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

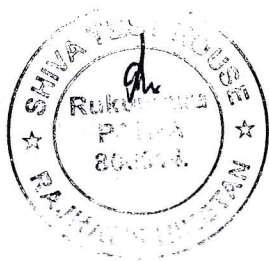
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(c)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt. <i>10.06.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>20.06.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	21.06.18			
[l] Analysis Start Date / Analysis Completion Date	21.06.18 / 23.06.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Pulveriser Plant		
2. Stack No.		111		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		31.0		
8. Flue Gas Temperature, °C		40.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	6.2	
10. Volumetric Flow Rate (NM ³ /hr.)			375.3	
11. Sampling Point			5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.46	2.0 mg / NM³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	10.8	---	



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Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

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E.mail.: sthpatna1@yahoo.co.in



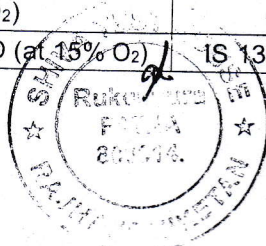
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TEST REPORT

Ref. No. *RIL/TR/18-19/317(d)* Dt: *17.07.2018* Your Work Order No. *MANUAL/RIL/BIH* Dt: *10.06.2018*

[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on 20.06.18			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%)	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	21.06.18			
[l] Analysis Start Date / Analysis Completion Date	21.06.18 / 23.06.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 1010 KVA		
2. Stack No.		IV		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		31.0		
8. Flue Gas Temperature, °C		216.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	9.7	
10. Volumetric Flow Rate (NM ³ /hr.)			375.8	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	46.2	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	31.0	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	166.3	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	18.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	45.0	150.00 mg / NM ³	



Asmita
17/07/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

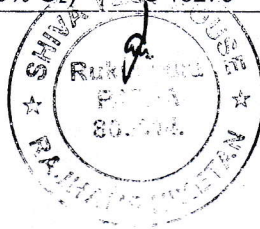
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(e)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>10.06.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 20.06.18			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	21.06.18			
[l] Analysis Start Date / Analysis Completion Date	21.06.18 / 23.06.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 750 KVA		
2. Stack No.		V		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		31.0		
8. Flue Gas Temperature, °C		195.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	9.1	
10. Volumetric Flow Rate (NM ³ /hr.)			368.4	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	40.2	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	27.7	Not Specified	
14. Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	152.1	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	12.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	25.0	150.00 mg / NM ³	



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SHIVA TEST HOUSE

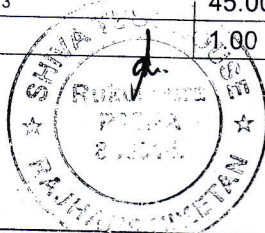
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TEST REPORT

Ref. No. RIL/TR/18-19/317(f) Dt: 17.07.2018 Your Work Order No. MANUAL/RIL/BIH Dt: 10.06.2018						
[a] Name and address of the Customer			RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample			Borewell Water			
[c] Sample Collected by			SHIVA TEST HOUSE on 20.06.18			
[d] Sampling Location			(Near Godown)			
[e] Method of Sampling			IS 3025, APHA			
[f] Sampling Environmental Condition			Temp. (°C)	31	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)			Plastic Bottle (02)			
[h] Sample Quantity			2 Litres			
[i] Items required to be tested			As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer			No			
[k] Date of receiving the sample in Laboratory			21.06.18			
[l] Analysis Start Date / Analysis Completion Date			21.06.18 / 23.06.18			
S.N.	Parameters	Limit as per IS 10500 : 2012		Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity, & pH	
		Limit (mg/l.) Desirable	Permissible Limit in the absence of alternative source			
1	Colour	5.0 Hazen Limit	25	IS 3025 (Part-4)	<5.00	
2	Odour	Agreeable	---	IS 3025 (Part-5)	Agreeable	
3	Taste	Agreeable	---	IS 3025 (Part-7))	Agreeable	
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	7.35	
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.0	
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-15)	368.0	
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	204.0	
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	60.0	
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-40)	13.1	
10	Iron as Fe	0.30	No relaxation	IS 3025 (Part-53)	0.21	
11	Residual Free Chlorine	0.20	1.00	IS 3025 (Part-26)	<0.1	
12	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	218.0	
13	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	40.0	
14	Sulphate as SO ₄	200.00	400.00	IS 3025 (Part-24)	9.2	
15	Nitrate as NO ₃	45.00	No relaxation	IS 3025 (Part-34)	5.3	
16	Fluoride as F	1.00	1.50	APHA (4500 F D)	0.51	



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17/07/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

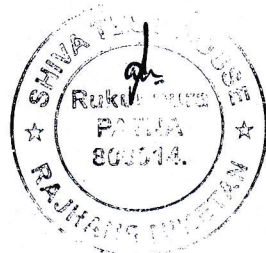
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(g)</i> Dt: <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>10.06.2018</i>				
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152		
[b] Details of Sample		<i>Borewell Water</i>		
[c] Sample Collected by		SHIVA TEST HOUSE on <i>20.06.18</i>		
[d] Sampling Location		<i>(Near Godown)</i>		
[e] Method of Sampling		IS 3025, APHA		
[f] Sampling Environmental Condition		Temp. (°C)	31 Humidity (%) 72	
[g] Details of Sample Container (No. & Type of Container)		Glass Bottle (01)		
[h] Sample Quantity		300 ml		
[i] Items required to be tested		As per contract.		
[j] Whether any specific Method of Test has been suggested by the customer		No		
[k] Date of receiving the sample in Laboratory		<i>21.06.18</i>		
[l] Analysis Start Date / Analysis Completion Date		<i>21.06.18 / 23.06.18</i>		
BACTERIOLOGICAL EXAMINATION OF WATER AS PER IS 1622 - 1981				
<i>Coliform (Most Probable Number of Organisms per 100 ml. of sample and confidence limit using 1 tube of 50 ml., 5 tubes of 10 ml. and 5 tubes of 1 ml.)</i>				
Sample	Media Strength	No. of Tubes	Observation for Acid / Gas formation at 37 °C after	
			24 Hr.	48 Hr.
50 ml.	Double Strength	1	-	-
10 ml.	-- do --	5	-	-
1 ml.	Single Strength	5	-	-
Result - MPN Organisms Values -- Not Detected in 100 ml. (Limit : Shall not be Detectable in 100 ml.)				



[Signature]
17/07/18
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Quality Manager / Dy. Quality Manager

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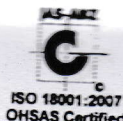
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01st FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2240705
E.mail.: sthpatna1@yahoo.co.in

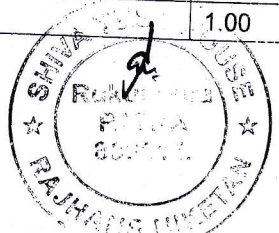


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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(h)</i> Dt: <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>10.06.2018</i>	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152
[b] Details of Sample	<i>Drinking Water</i>
[c] Sample Collected by	SHIVA TEST HOUSE on <i>20.06.18</i>
[d] Sampling Location	<i>from Canteen Aquaguard</i>
[e] Method of Sampling	IS 3025, APHA
[f] Sampling Environmental Condition	Temp. (°C) 31 Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)	Plastic Bottle (02)
[h] Sample Quantity	2 Litres
[i] Items required to be tested	As per contract.
[j] Whether any specific Method of Test has been suggested by the customer	No
[k] Date of receiving the sample in Laboratory	<i>21.06.18</i>
[l] Analysis Start Date / Analysis Completion Date	<i>21.06.18 / 23.06.18</i>

S.N.	Parameters	Limit as per IS 10500 : 2012		Method of Test	Results in mg/l. except colour, Odour, Taste, Turbidity & pH
		Limit (mg/l.) Desirable	Permissible Limit in the absence of alternative source		
1	Colour	5.0 Hazen Limit	25	IS 3025 (Part-4)	<5.00
2	Odour	Agreeable	---	IS 3025 (Part-5)	Agreeable
3	Taste	Agreeable	---	IS 3025 (Part-7))	Agreeable
4	pH	6.5 to 8.5	--	IS 3025 (Part-11)	6.68
5	Turbidity on NTU	1.00	5.00	IS 3025 (Part-10)	<1.00
6	Total Dissolved Solids (TDS)	500.00	2000.00	IS 3025 (Part-15)	274.0
7	Total Hardness as CaCO ₃	200.00	600.00	IS 3025 (Part-21)	186.0
8	Calcium as Ca	75.00	200.00	IS 3025 (Part-40)	52.0
9	Magnesium as Mg	30.00	100.00	IS 3025 (Part-40)	13.6
10	Iron as Fe	0.30	No relaxation	IS 3025 (Part-53)	0.15
11	Residual Free Chlorine	0.20	1.00	IS 3025 (Part-26)	<0.1
12	Total Alkalinity as CaCO ₃	200.00	600.00	IS 3025 (Part-23)	210.0
13	Chloride as Cl	250.00	1000.00	IS 3025 (Part-32)	28.0
14	Sulphate as SO ₄	200.00	400.00	IS 3025 (Part-24)	6.4
15	Nitrate as NO ₃	45.00	No relaxation	IS 3025 (Part-34)	4.1
16	Fluoride as F	1.00	1.50	APHA (4500 F D)	0.45



Handwritten Signature
17/07/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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LABORATORY ADDRESS :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
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SHIVA TEST HOUSE

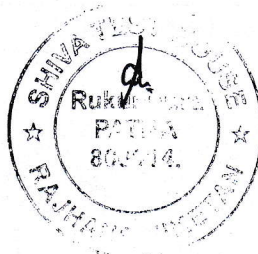
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(i)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>10.06.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	<i>Drinking Water</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>20.06.18</i>			
[d] Sampling Location	<i>from Canteen Aquaguard</i>			
[e] Method of Sampling	IS 3025, APHA			
[f] Sampling Environmental Condition	Temp. (°C) <i>31</i> Humidity (%) <i>72</i>			
[g] Details of Sample Container (No. & Type of Container)	Glass Bottle (01)			
[h] Sample Quantity	300 ml			
[i] Items required to be tested	As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	<i>21.06.18</i>			
[l] Analysis Start Date / Analysis Completion Date	<i>21.06.18 / 23.06.18</i>			
BACTERIOLOGICAL EXAMINATION OF WATER AS PER IS 1622 - 1981				
<i>Coliform (Most Probable Number of Organisms per 100 ml. of sample and confidence limit using 1 tube of 50 ml., 5 tubes of 10 ml. and 5 tubes of 1 ml.)</i>				
Sample	Media Strength	No. of Tubes	Observation for Acid / Gas formation at 37 °C after	
			24 Hr.	48 Hr.
50 ml.	Double Strength	1	-	-
10 ml.	-- do --	5	-	-
1 ml.	Single Strength	5	-	-
Result - MPN Organisms Values -- Not Detected in 100 ml. (Limit : Shall not be Detectable in 100 ml.)				



Hesno
17/07/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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01st FLOOR, RAJHANS NIKETAN
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247000, 2240752 ; TeleFAX : 0612 - 2590705
E.mail.: sthpatna1@yahoo.co.in

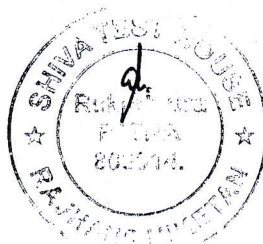
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(j)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>10.06.2018</i>					
[a] Name and address of the Customer		RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample		<i>Effluent Sample</i>			
[c] Sample Collected by		SHIVA TEST HOUSE on <i>20.06.18</i>			
[d] Sampling Location		<i>from Final Discharge Point</i>			
[e] Method of Sampling		IS 3025, APHA			
[f] Sampling Environmental Condition		Temp. (°C)	31	Humidity (%)	72
[g] Details of Sample Container (No. & Type of Container)		Plastic Bottle (02)			
[h] Sample Quantity		2 Litres			
[i] Items required to be tested		As per contract.			
[j] Whether any specific Method of Test has been suggested by the customer		No			
[k] Date of receiving the sample in Laboratory		<i>21.06.18</i>			
[l] Analysis Start Date / Analysis Completion Date		<i>21.06.18 / 23.06.18</i>			
S. N	Parameters	Method of Test	Limit as per E (P) Rules Schedule VI	Result (in mg/l.) except pH, Colour	
1	Colour	IS 3025 (Part-4)	Not Specified	Colourless	
2	pH	IS 3025 (Part-11)	5.5 to 9.0	6.98	
3	Suspended Solids	IS 3025 (Part-17)	100.00	44.0	
4	Oil & Grease	IS 3025 (Part-39)	10.00	<1.0	
5	B.O.D. (3 days at 27°C)	IS 3025 (Part-44)	30.00	18.0	
6	C.O.D.	APHA 5220 B	250.00	60.0	
7	Dissolved Phosphate as P	APHA (4500-P-D)	5.00	1.3	
8	Fluoride as F	APHA 4500 (F D)	5.00	0.42	
9	Ammonical Nitrogen as N	IS 3025 (Part-34)	50.00	15.0	
10	Total Kjeldahl Nitrogen as N	APHA (4500 N org)	100.00	27.0	



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BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
E.mail. : sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(k)</i> Dt: <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt: <i>10.06.2018</i>	
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152
[b] Sampling Environmental Condition	Temp. (°C) 31 Humidity (%) 72
[c] Details of Sample	<i>Monitoring of Ambient Noise Level at Ramco Bihiya</i>
[d] Monitored by	SHIVA TEST HOUSE on 20.06.18
[e] Whether any specific Method of Test has been suggested by the party	No
Sampling Location	Time Weighted Average (TWA) of Noise Level in dB(A)
1. Near Main Gate	69.7
2. Near Office	54.6
3. Near Stripping Area	65.4
4. Near Fibre Mill	67.2
5. Near DG Room	71.9
N.B.:	<i>The Ambient Air Quality Standards in respect of Noise as per Noise Pollution (Regulation and Control) Rules 2000 for Industrial area is 75.0 dB(A), for Commercial area is 65.0 dB(A), for Residential area is 55.0 dB(A) & for Silencence Zone is 50.0 dB(A) in daytime i.e. 6.00 am to 9.0 p.m. As per Rule 7(1&2) the authority shall take action against violator if the noise level exceed the ambient noise standards by 10 dB(A) or more against any area/zcne.</i>



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 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

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TEST REPORT

Ref. No. *RIL/TR/18-19/317(l)* Dt : *17.07.2018* Your Work Order No. *MANUAL/RIL/BIH* Dt : *10.06.2018*

[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152		
[b] Details of Sample	Monitoring of Respirable Dust in Work Zone Area		
[c] Sample Collected by	Shiva Test House on 20.06.18		
[d] Sampling Location	Premises of Ramco Bihya		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%) 72
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger		
[h] Sample Quantity	04		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	21.06.18		
[l] Analysis Start Date / Analysis Completion Date •	21.06.18 / 23.06.18		

S. N.	Sampling Point	Concentration of Respirable Dust (PM ₁₀)	Limit as NAAQS Nov '2009
		[08 hrs.] (µg/M ³)	(µg/M ³)
1	Fibre Mill Area	33.1	100.0
2	Hatscheck Machine Area	21.6	
3	Stripping Machine Area	32.4	
4	Pulverizer Area	48.2	



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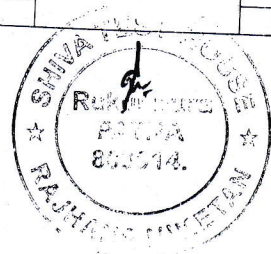
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TEST REPORT

Ref. No. *RIL/TR/18-19/317(m)* Dt : *17.07.2018* Your Work Order No. *MANUAL/RIL/BIH* Dt : *10.06.2018*

[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152		
[b] Details of Sample	Monitoring of Ambient Air Quality		
[c] Sample Collected by	Shiva Test House on 20.06.18		
[d] Sampling Location	Premises of Ramco Bihya		
[e] Method of Sampling	IS 5182 (Part - 14)		
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)	Filter Paper : Glass Impinger		
[h] Sample Quantity	12		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	21.06.18		
[l] Analysis Start Date / Analysis Completion Date	21.06.18 / 23.06.18		

Parameters	Method of Test	Sampling Station				Limit as NAAQS Nov. '2009
		Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	
1. Particulate Matter (PM ₁₀), µg / m ³	IS 5182 (Part-23)	55.7	58.2	54.4	47.2	100 µg / m ³
		50.4	68.4	51.4	50.4	
		48.8	51.6	46.7	47.2	
2. Particulate Matter (PM _{2.5}), µg / m ³	USEPA	30.5	33.8	29.7	25.6	60 µg / m ³
		26.1	40.2	27.6	27.1	
		23.8	31.1	24.4	25.1	
3. Sulphur Dioxide as SO ₂ , µg / m ³	IS 5182 (Part-2)	<5.0	11.4	<5.0	5.1	80 µg / m ³
		7.6	9.9	5.4	6.6	
		6.7	13.7	7.3	8.3	
		6.2	9.4	6.2	5.9	
		<5.0	8.4	5.1	6.6	
4. Nitrogen Dioxide as NO ₂ , µg / m ³	IS 5182 (Part-6)	<5.0	5.1	<5.0	<5.0	80 µg / m ³
		15.0	22.9	14.3	17.2	
		16.4	21.9	20.2	23.1	
		13.7	19.7	21.5	18.3	
		11.4	27.9	15.6	21.8	
Average Value		9.6	16.3	12.0	11.3	
		7.9	12.4	9.6	10.4	
PM ₁₀		48.3	49.7	47.5	45.1	
PM _{2.5}		25.1	28.6	25.5	24.2	
SO ₂		6.4	9.9	8.3	7.5	
NO ₂		11.5	18.9	14.5	15.9	



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 Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE
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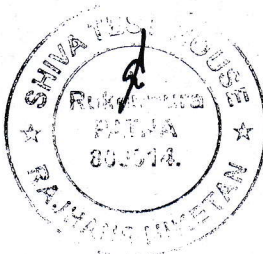
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(n)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>10.06.2018</i>						
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152					
[b] Details of Sample	<i>Monitoring of Ambient Air Quality</i>					
[c] Sample Collected by	<i>Shiva Test House on 20.06.18</i>					
[d] Sampling Location	<i>Premises of Ramco Bihya</i>					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C) 31 Humidity (%) 72					
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	5					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	<i>21.06.18</i>					
[l] Analysis Start Date / Analysis Completion Date	<i>21.06.18 / 23.06.18</i>					
Parameters	Method of Test	Sampling Station				Limit as per EPA Notification ($\mu\text{g} / \text{m}^3$)
		Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	
1. Carbon Monoxide (CO), mg / m^3	IS 5182 (Part-10)	0.45	1.24	0.24	BDL	4 mg / m^3
2. Lead (Pb), $\mu\text{g} / \text{m}^3$	IS 5182 (Part-22)	BDL	BDL	BDL	BDL	1 $\mu\text{g} / \text{m}^3$
3. Ammonia as NH_3 , $\mu\text{g} / \text{m}^3$	IS 5182 (Part-5)	NIL	NIL	NIL	NIL	400 $\mu\text{g} / \text{m}^3$
4. Ozone (O_3), $\mu\text{g} / \text{m}^3$	IS 5182 (Part-9)	6.2	24.3	9.4	11.6	180 $\mu\text{g} / \text{m}^3$
5. Benzene (C_6H_6), $\mu\text{g} / \text{m}^3$	IS 5182 (Part-22)	BDL	BDL	BDL	BDL	5 $\mu\text{g} / \text{m}^3$
6. Arsenic (As), ng / m^3	AAS Method	BDL	BDL	BDL	BDL	6 ng / m^3
7. Nickel as Ni, ng / m^3	AAS Method	BDL	BDL	BDL	BDL	20 ng / m^3
CO : BDL Denotes Below Detectable Limit < 21.09 ($\mu\text{g} / \text{m}^3$)		Pb : BDL Denotes Below Detectable Limit < 0.02 ($\mu\text{g} / \text{m}^3$)				



[Signature]
17/07/18
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Quality Manager / Dy. Quality Manager

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 Patna - 800 001 (Bihar)



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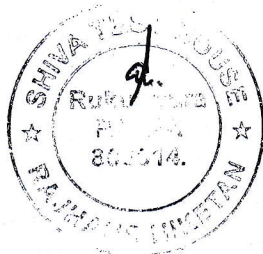


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TEST REPORT

Ref. No. <i>RIL/TR/18-19/317(o)</i> Dt : <i>17.07.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH</i> Dt : <i>10.06.2018</i>						
[a] Name and address of the Customer	Sr. General Manager (Works) RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152					
[b] Details of Sample	<i>Monitoring of Ambient Air Quality</i>					
[c] Sample Collected by	<i>Shiva Test House on 20.06.18</i>					
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>					
[e] Method of Sampling	IS 5182 (Part - 14)					
[f] Sampling Environmental Condition	Temp. (°C)	31	Humidity (%)	72		
[g] Details of Sample Container (No. & Type of Container)	Filter Paper ; Glass Impinger					
[h] Sample Quantity	1					
[i] Items required to be tested	As per contract					
[j] Whether any specific Method of Test has been suggested by the customer	No					
[k] Date of receiving the sample in Laboratory	21.06.18					
[l] Analysis Start Date / Analysis Completion Date	21.06.18 / 22.06.18					
Parameters	Method of Test	Sampling Station				Limit as per EPA Notification ($\mu\text{g} / \text{m}^3$)
		Near Office	Near Rear Gate	Near Stripping Area	Near Laboratory	
1. Benzo (a) Pyrene. (Particulate Phase only) ng / m^3	IS 5182 (Part-10)	<0.1	<0.1	< 0.1	< 0.1	1.0 ng / m^3



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/160(a)</i> Dt : <i>26.05.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on 20.05.18			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	36	Humidity (%) 62	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	20.05.18			
[l] Analysis Start Date / Analysis Completion Date	21.05.18 / 24.05.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Fibre Circuit		
2. Stack No.		I		
3. Height of Stack (as reported)		30.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		36.0		
8. Flue Gas Temperature, °C		44.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	7.1	
10. Volumetric Flow Rate (NM ³ /hr.)			3017	
11. Sampling Point			10 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.76	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	Not Detectable	---	



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Authorized Signatory
Quality Manager / Dy. Quality Manager

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Regd. Office :
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Gardanibagh
PATNA - 800 001 (Bihar)



LABORATORY ADDRESS :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
E.mail : sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/160(b)</i> Dt : <i>26.05.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 20.05.18			
[d] Sampling Location	Premises of Ramco Bihya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	36	Humidity (%)	62
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	20.05.18			
[l] Analysis Start Date / Analysis Completion Date	21.05.18 / 24.05.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Cement / Fly Ash Circuit		
2. Stack No.		11		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		36.0		
8. Flue Gas Temperature, °C		48.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	6.6	
10. Volumetric Flow Rate (NM ³ /hr.)			2770	
11. Sampling Point			5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	38.4	100.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	13.6	---	



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26/05/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
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SHIVA TEST HOUSE

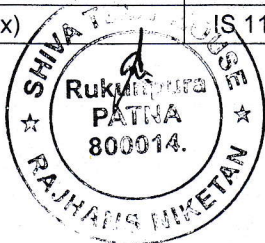
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/160(c)</i> Dt : <i>26.05.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>20.05.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	36	Humidity (%)	62
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	20.05.18			
[l] Analysis Start Date / Analysis Completion Date	21.05.18 / 24.05.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Pulveriser Plant		
2. Stack No.		111		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		36.0		
8. Flue Gas Temperature, °C		42.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.9	
10. Volumetric Flow Rate (NM ³ /hr.)			354.9	
11. Sampling Point			5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.28	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	12.1	---	



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Quality Manager / Dy. Quality Manager

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01st FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247500 / 2240752 ; TeleFax : 0612 - 2590705
E.mail.: sthatna1@yahoo.co.in

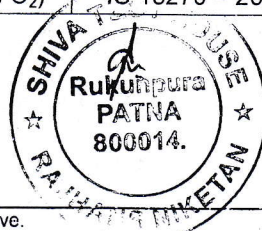


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TEST REPORT

Ref. No. <i>RIL/TR/18-19/160(d)</i> Dt: <i>26.05.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>			
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152		
[b] Details of Sample	<i>Monitoring of Stack Emission</i>		
[c] Sample Collected by	SHIVA TEST HOUSE on <i>20.05.18</i>		
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C) 36 Humidity (%) 62		
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Sample Quantity	5		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	<i>20.05.18</i>		
[l] Analysis Start Date / Analysis Completion Date	<i>21.05.18 / 24.05.18</i>		
Parameters	Method of Test	Results	
1. Stack Connected to		DG Set 1010 KVA	
2. Stack No.		IV	
3. Height of Stack (as reported)		9.0 m.	
4. Dia of Stack at Top (as reported)		0.15 m.	
5. Draft		Natural	
6. Material of Construction		M.S.	
7. Ambient Temperature, °C		36.0	
8. Flue Gas Temperature, °C		194.0	
9. Velocity, m/sec.	IS 11255 (Part-3)	11.6	
10. Volumetric Flow Rate (NM ³ /hr.)		470.6	
11. Sampling Point		3.5 m.	
		Concentration (mg / NM³)	Limit as per E (P) Rules Schedule I
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	51.3	75.00 mg / NM ³
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	34.6	Not Specified
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	172.3	710.00 mg / NM ³
15. NMHC (as C) (at 15% O ₂)	CPCB	24.0	100.00 mg / NM ³
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	36.0	150.00 mg / NM ³



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Quality Manager / Dy. Quality Manager

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 Extn. : (Chatterjee Lane)
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 PATNA - 800 001 (Bihar)



LABORATORY ADDRESS :-
 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
 E. mail. : sthatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/160(e)</i> Dt : <i>26.05.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on 20.05.18			
[d] Sampling Location	<i>Premises of Ramco Bihya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	36	Humidity (%) 62	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	20.05.18			
[l] Analysis Start Date / Analysis Completion Date.	21.05.18 / 24.05.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 750 KVA		
2. Stack No.		V		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		36.0		
8. Flue Gas Temperature, °C		185.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	10.2	
10. Volumetric Flow Rate (NM ³ /hr.)			421.9	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	44.8	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	33.1	Not Specified	
14. Oxides of Nitrogen (NO _x)	IS 11255 (Part-7)	158.4	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	16.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	30.0	150.00 mg / NM ³	



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 Authorized Signatory
 Quality Manager / Dy. Quality Manager

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PATNA - 800 001 (Bihar)

LABORATORY ADDRESS :-
01ST FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
E-mail : shpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/57(a)</i> Dt : <i>20.04.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur - 802 152			
[b] Details of Sample	Monitoring of Stack Emission			
[c] Sample Collected by	SHIVA TEST HOUSE on 12.04.18			
[d] Sampling Location	Premises of Ramco Bihiya			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	28	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	1			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.04.18			
[l] Analysis Start Date / Analysis Completion Date	13.04.18 / 16.04.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Fibre Circuit		
2. Stack No.		I		
3. Height of Stack (as reported)		30.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		28.0		
8. Flue Gas Temperature, °C		40.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	6.3	
10. Volumetric Flow Rate (NM ³ /hr.)			2712	
11. Sampling Point			10 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.62	2.0 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	Not Detectable	---	



[Signature]
20/04/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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01st FLOOR, RAJHANS NIKETAN,
NEAR CANAL, RUKUNPURA,
BAILEY ROAD,
PATNA – 800 014 BIHAR)

SHIVA TEST HOUSE

Tel : 0612 – 2247538 / 2240752 ; TeleFax : 0612 - 2590705
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TEST REPORT

Ref. No. <i>RIL/TR/18-19/57(b)</i> Dt : <i>20.04.2018</i> Your Work Order No. <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihiya Bhojpur – 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>12.04.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihiya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	28	Humidity (%) 70	
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	2			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.04.18			
[l] Analysis Start Date / Analysis Completion Date	13.04.18 / 16.04.18			
Parameters	Method of Test	Results		
1. Stack Connected to		Cement / Fly Ash Circuit		
2. Stack No.		11		
3. Height of Stack (as reported)		15.0 m.		
4. Dia of Stack at Top (as reported)		0.4 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		28.0		
8. Flue Gas Temperature, °C		43.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	5.8	
10. Volumetric Flow Rate (NM ³ /hr.)			2473	
11. Sampling Point			5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	36.2	100.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---	
14. Oxides of Nitrogen (NO ₂)	IS 11255 (Part-7)	11.7	---	



[Signature]
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Quality Manager / Dy. Quality Manager

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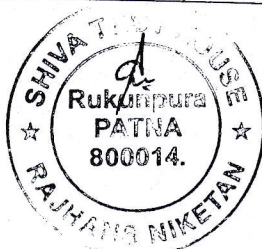
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TEST REPORT

Ref. No. *RIL/TR/18-19/57(c)* Dt : *20.04.2018* Your Work Order No. *MANUAL/RIL/BIH/18* Dt : *10.04.2018*

[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur – 802 152		
[b] Details of Sample	<i>Monitoring of Stack Emission</i>		
[c] Sample Collected by	SHIVA TEST HOUSE on <i>12.04.18</i>		
[d] Sampling Location	<i>Premises of Ramco Bihya</i>		
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)		
[f] Sampling Environmental Condition	Temp. (°C)	28	Humidity (%)
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger		
[h] Sample Quantity	2		
[i] Items required to be tested	As per contract		
[j] Whether any specific Method of Test has been suggested by the customer	No		
[k] Date of receiving the sample in Laboratory	<i>12.04.18</i>		
[l] Analysis Start Date / Analysis Completion Date	<i>13.04.18 / 16.04.18</i>		

Parameters	Method of Test	Results	
1. Stack Connected to	IS 11255 (Part-3)	Pulveriser Plant	
2. Stack No.		III	
3. Height of Stack (as reported)		15.0 m.	
4. Dia of Stack at Top (as reported)		0.15 m.	
5. Draft		Natural	
6. Material of Construction		M.S.	
7. Ambient Temperature, °C		28.0	
8. Flue Gas Temperature, °C		40.0	
9. Velocity, m/sec.		5.1	
10. Volumetric Flow Rate (NM ³ /hr.)		308.7	
11. Sampling Point		5 m.	
		Concentration (mg / NM ³)	
		Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	1.35	2.0 mg / NM ³
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	Not Detectable	---
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	10.4	---



[Signature]
20/04/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

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SHIVA TEST HOUSE

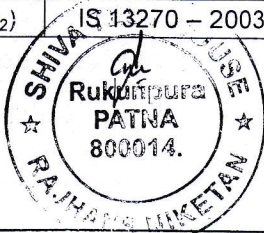
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E.mail.: sthpatna1@yahoo.co.in



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TEST REPORT

Ref. No. <i>RIL/TR/18-19/57(d)</i> Dt : <i>20.04.2018</i> Your Work Order No: <i>MANUAL/RIL/BIH/18</i> Dt : <i>10.04.2018</i>				
[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on <i>12.04.18</i>			
[d] Sampling Location	<i>Premises of Ramco Bihya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	28	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.04.18			
[l] Analysis Start Date / Analysis Completion Date	13.04.18 / 16.04.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 1010 KVA		
2. Stack No.		IV		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		28.0		
8. Flue Gas Temperature, °C		186.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	10.8	
10. Volumetric Flow Rate (NM ³ /hr.)			445.8	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	47.9	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	36.0	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	154.6	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	15.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	22.0	150.00 mg / NM ³	



20/04/18
Authorized Signatory
Quality Manager / Dy. Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory

Regd. Office :
 6D Extn. : (Chatterjee Lane)
 Gardanibagh
 PATNA - 800 001 (Bihar)



LABORATORY ADDRESS :-
 01ST FLOOR, RAJHANS NIKETAN,
 NEAR CANAL, RUKUNPURA,
 BAILEY ROAD,
 PATNA - 800 014 (BIHAR)

SHIVA TEST HOUSE

Tel. : 0612 - 2247538 / 2240752 ; TeleFax : 0612 - 2590705
 E.mail. : sthpatna1@yahoo.co.in



RECOGNISED AS ENVIRONMENTAL LABORATORY BY CENTRAL GOVT. UNDER ENVIRONMENT (PROTECTION) ACT 1986), BY DEPTT. OF INDUSTRY, FORESTS & ENVIRONMENT, GOVT. OF BIHAR AND BIHAR STATE POLLUTION CONTROL BOARD & ACCREDITED BY NABL

TEST REPORT

Ref. No. *RIL/TR/18-19/57(e)* Dt : *20.04.2018* Your Work Order No. *MANUAL/RIL/BIH/18* Dt : *10.04.2018*

[a] Name and address of the Customer	RAMCO INDUSTRIES LTD. Plot No. A 1, BIADA Industrial Area Bihya Bhojpur - 802 152			
[b] Details of Sample	<i>Monitoring of Stack Emission</i>			
[c] Sample Collected by	SHIVA TEST HOUSE on 12.04.18			
[d] Sampling Location	<i>Premises of Ramco Bihya</i>			
[e] Method of Sampling	IS 11255 (Part-1,2,3 & 7)			
[f] Sampling Environmental Condition	Temp. (°C)	28	Humidity (%)	70
[g] Details of Sample Container (No. & Type of Container)	Thimble & Glass Impinger			
[h] Sample Quantity	5			
[i] Items required to be tested	As per contract			
[j] Whether any specific Method of Test has been suggested by the customer	No			
[k] Date of receiving the sample in Laboratory	12.04.18			
[l] Analysis Start Date / Analysis Completion Date	13.04.18 / 16.04.18			
Parameters	Method of Test	Results		
1. Stack Connected to		DG Set 750 KVA		
2. Stack No.		V		
3. Height of Stack (as reported)		9.0 m.		
4. Dia of Stack at Top (as reported)		0.15 m.		
5. Draft		Natural		
6. Material of Construction		M.S.		
7. Ambient Temperature, °C		28.0		
8. Flue Gas Temperature, °C		174.0		
9. Velocity, m/sec.		IS 11255 (Part-3)	9.3	
10. Volumetric Flow Rate (NM ³ /hr.)			394.2	
11. Sampling Point			3.5 m.	
		Concentration (mg / NM ³)	Limit as per E (P) Rules Schedule I	
12. Particulate Matter (P.M.)	IS 11255 (Part-1)	41.6	75.00 mg / NM ³	
13. Sulphur Dioxide (SO ₂)	IS 11255 (Part-2)	32.4	Not Specified	
14. Oxides of Nitrogen (NOx)	IS 11255 (Part-7)	164.6	710.00 mg / NM ³	
15. NMHC (as C) (at 15% O ₂)	CPCB	12.0	100.00 mg / NM ³	
16. Carbon Monoxide as CO (at 15% O ₂)	IS 13270 - 2003	20.0	150.00 mg / NM ³	



[Signature]
 20/04/18
 Authorized Signatory
 Quality Manager / Dy. Quality Manager

1. This report applies only to sample tested as above.
2. Total Liability of our Laboratory is limited to invoiced amount.
3. Test Report endorsed only the tests and not the product certificate.
4. Test Report can not be reproduced partially or full for legal/court purpose without written permission of the Laboratory.

2018-08-29

COPY

QUALITY CERTIFICATE

REF Invoice No: F/TR/1102018080043

Consignee:

RAMCO INDUSTRIES LTD
AURAS CORPORATE CENTRE,
6TH FLR, 98 A DR RADHAKRISHNAN SALAI
MYLAPORE, CHENNAI 600004

Description of goods: CHRYSOTILE FIBRE OF RUSSIAN ORIGIN GRADES 5-65

Order No: 002/KON/IND/May-Dec 2018 dtd 2018-04-16

Packing	Containers Numbers	Quantity (bags)	Net weight KG	Gross weight KG
P.P, bags 50 kg each one	ZIMU 1008197	450	22 500	23 340
Stretch Wrapped / Thermo Shrink Film onto pallets of 1.25 MT (25 bags) - 10 pallets	ZIMU 1085594	450	22 500	23 340
	ZIMU 1115868	450	22 500	23 339
Stretch Wrapped / Thermo Shrink Film onto pallets of 1.00 MT (20 bags) - 10 pallets	ZIMU 1129310	450	22 500	23 340
	ZIMU 1165853	450	22 500	23 340
ON TO PALLETS AS PER PROFORMA INV NO. 081/ZSP/2018 DATED 06.07.2018	ZIMU 1260233	450	22 500	23 339
	ZIMU 1425668	450	22 500	23 340
TERMS: CIF CALCUTTA AS PER INCOTERMS 2010. LETTER OF CREDIT NUMBER 004LC01182000008 DATE 180721	ZIMU 2917024	450	22 500	23 340
	ZIMU 2985749	450	22 500	23 339
IMPORT AND EXPORT CODE 0488004489 EMAIL IDS: GSU@RIL.CO.IN, VUM@RIL.CO.IN, NBA@RIL.CO.IN HS CODE 25.24.90.21 ISSUING BANK: HDFC BANK LTD IV FLOOR NO 115 RADHAKRISHNAN SALAI MYLAPORE CHENNAI 600004 INDIA GOODS ARE FREELY IMPORTABLE AND NOT COVERED UNDER THE NEGATIVE LIST AS PER FOREIGN TRADE POLICY 2015-2020	ZIMU 3020870	450	22 500	23 339
	ZIMU 3035714	450	22 500	23 340
	ZIMU 3052650	450	22 500	23 339
	Total	5 400	270 000	280 075

IT IS HEREBY CERTIFIED THAT THE QUALITY OF THE GOODS MENTIONED IN THIS CERTIFICATE IS IN CONFORMITY WITH THE STANDARD GOST 12871-2013 AND THE GOODS MAY BE EXPORTED. QUALITY CHARACTERISTICS OF THE GOODS: REMAINDER ON THE MAIN SIEVE OF THE CONTROL APPARATUS: NOT LESS THAN MENTIONED BELOW IN %

Characteristic	Value
DUST(NOT MORE THAN IN %)	9
2 SIEVE	0
3 SIEVE	65

KONIMPEX Ltd.
24, Mickiewicza Str.
62-500 Konin, POLAND

H. Pańiak
Signature



RAMCO INDUSTRIES LIMITED BIHAR(STAFF)
 PLOT NO.A1,BIADA INDL AREA,BIHIYA-802152,DIST BHOJPUR(BIHAR)

Confidential

RIA DIAGNOSTICS - DOC NO: F - 8. 2. 4 - 01/ R1
MEDICAL SURVEILLANCE PROFORMA

SL. NO : 58

DATE : 23/04/2018

NAME : RAMSAI S DEPARTMENT : MAINTENANCE ELECTRICAL
 AGE/SEX : 29 MALE DURATION OF SERVICE : 7.6-Years
 E. NO : 10305 REG NO : 1,010,323
 EMERGENCY 1. : 8271870491 EMERGENCY 2. : -

PERSONAL HISTORY

DIET : Vegetarian BLOOD GROUP : 'O' POSITIVE
 ALLERGY : Nil

	SMOKING	ALCOHOL	TOBACCO CHEWING	SNUFF
QUANTITY	Nil	Nil	Nil	Nil
DURATION	Nil	Nil	Nil	Nil
TYPE	Nil	Nil	Nil	Nil

OBSTETRIC / MENSTRUAL HISTORY : Not Applicable

PRESENTING COMPLAINTS : No Complaints

PAST HISTORY : Not Significant

FAMILY HISTORY (Father, Mother, Siblings) : Not Present

GENERAL PHYSICAL EXAMINATION

DEFECTS / DISABILITY : No Epilepsy, No Knock Knee, No Flat Foot, No Disc Prolapse, No Club Foot, No Hernia and No Vericose Veins

HEIGHT : 182 Cms WEIGHT : 94 Kg BODY MASS INDEX : 28.378
 IDEAL WEIGHT RANGE : 77.00 - 82.00 Kg PULSE RATE : 70 b/mt BP : 138/90 mm Hg
 INSPIRATION / EXPIRATION: Cms - Cms

Your BMR : 2,066.60 kcal / day

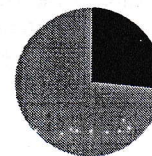
The Basal Metabolic Rate (BMR) is the rate your body burns energy (approx. 1600 kcal/day) during a normal resting state.
 The BMR is based on your lean weight, the greater your lean weight, more the calories you burn.

Interpreting Your BODY MASS INDEX

Adult	Women	Men
Underweight	< 19.1	< 20.7
In normal range	19.1-25.8	20.7-26.4
Marginally overweight	25.8-27.3	26.4-27.8
Overweight	27.3-32.3	27.8-31.1
Very overweight or obese	> 32.3	> 31.1

Interpreting Your BODY FAT PERCENTAGE

73.68 FAT FREE MASS %
 26.32 FAT %



Classification	Women (% fat)	Men (% fat)
Athletes	14-20%	6-13%
Fitness	21-24%	14-17%
Acceptable	25-31%	18-25%
Obese	32% plus	25% plus

TUNING FORK TEST : Normal

LYMPH NODES : Not Palpable

ORAL CAVITY : Good Hygiene

PALLOR : No



Ria Diagnostics®

An ISO - 9001 : 2008 Certified Organisation

CMC VELLORE ACBI/CMC EXTERNAL QUALITY ASSESSMENT SCHEME
LAB No. 1863 GROUP No. 1



NAME : Mr. RAMSAI S
AGE : 29 Years
REF BY : RAMCO INDUSTRIES LIMITED BIHAR(STAFF)
COMPANY : RAMCO INDUSTRIES LIMITED BIHAR(STAFF)
DATE : 23-04-2018
SEX : MALE
REG. # : 1010323
E.NO/SL No : 10305 / 58

TEST	RESULT	NORMAL VALUE
<u>HEAMOGRAM</u>		
Hemoglobin	: 14.8 gms %	13.5 - 18.0 gms %
Total W B C count	: 9,100 Cells / Cumm	4,400 - 11,000 Cells / cumm
Differential Count	:	
Neutrophils	: 57 %	54 - 75 %
Lymphocytes	: 38 %	20 - 40 %
Eosinophils	: 02 %	01 - 06 %
Monocytes	: 03 %	02 - 10 %
Basophils	: 00 %	00 - 01 %
E S R	: 09 mm / hr	05 - 15 mm / hr
<u>URINE ROUTINE</u>		
Albumin	: Nil	
Sugar	: Nil	
LAB INVESTIGATION		
Sputum for AFB	: Negative	

TECHNICIAN

PATHOLOGIST


Dr. (Mrs.) K. Thungabhadra Rao, MBBS., PGD. Clin. Path (MAHE)
Consultant Pathologist

SL NO : 58









E. NO : 10305

REG NO : 1,010,323

VISUAL ACUITY

	DISTANT VISION	NEAR VISION	COLOUR VISION	CORRECTIONS
RIGHT	6/6	N/6	Normal	Normal
LEFT	6/6	N/6	Normal	Normal

SYSTEMIC EXAMINATION

RESPIRATORY SYSTEM 	Normal Vesicular Breath Sounds Heard, No Ronchi, No Crepitations
CARDIO - VASCULAR SYSTEM 	Apical Beat Normal, S1+S2 Heard Normal In Apical, Pulmonary, Aortic & Tricuspid Areas No Thrills/Murmurs
CENTRAL NERVOUS SYSTEM 	Cranial Nerves are Normal, No Abnormality Detected
ABDOMEN 	Soft, No Hepatosplenomegaly
SKIN 	Normal
LUNG FUNCTION TEST 	Normal Spirometry
AUDIOMETRY 	Bilateral Hearing Within Normal Limits
ELECTRO CARDIOGRAM (ECG) 	Not Applicable
CHEST X-RAY IMPRESSION	Not Applicable

LAB INVESTIGATION

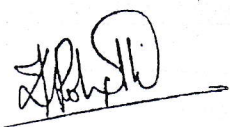
BLOOD HB % : Report Enclosed	URINE SUGAR / ALBUMIN : Report Enclosed
---------------------------------	--

DIETARY ADVICE

Type	Activity	Total Calories Needed Per Day
SEDENTARY WORK	little or no exercise	2479.92 kcal/day
MODERATE WORK	moderate exercise/sports 3-5 days/week	3203.23 kcal/day
HEAVY WORK	very hard exercise/sports & physical job	4112.53 kcal/day

ADVICE / REMARKS

1. Sputum for AFB & Asbestos Fibre - Negative
2. Advised Weight Reduction - Brisk Walk Regularly for 40 Minutes Every day.
3. Life Style Modifications Desired - Fat Free Diet/ Regular Exercises
4. Salt Restricted Diet
5. Clinically Healthy



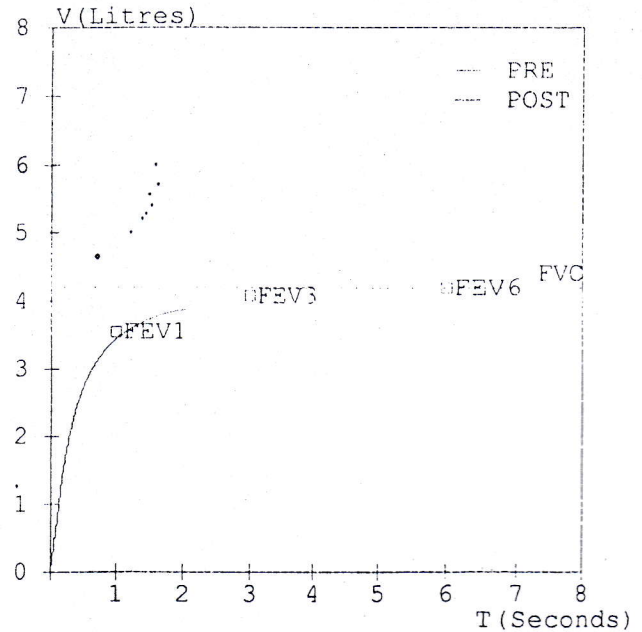
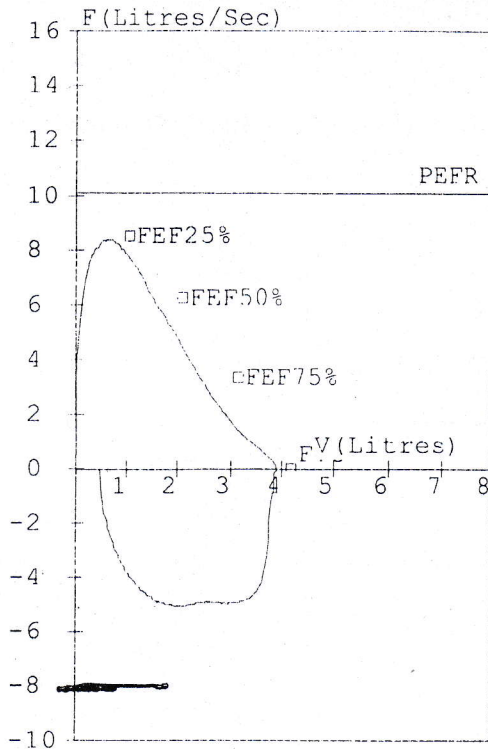
Dr. K ROHITH, MBBS, MD (KMC No 41280)
CONSULTANT IN OCCUPATIONAL HEALTH

RAMCO INDUSTRIES LIMITED (BIHAR)

PLOT NO.A1, BIADA INDL AREA, BIHIYA-802152, DIST BHOJPUR (BIHAR)

Patient: RAMSAI S
 Refd. By:
 Pred. Eqns: RECORDERS
 Date : 23-Apr-2018 12:25 PM

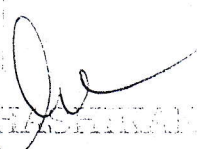
Age : 29 Years Gender : Male
 Height : 182 Cms Smoker : No
 Weight : 94 Kgs Eth. Corr: 100
 ID: RAMC58 Temp :



Spirometry (FVC Results)

Parameter	Pred	M. Pre	%Pred	M. Post	%Pred	%Imp
FVC (L)	04.20	03.89	093	---	---	---
FEV1 (L)	03.54	03.46	098	---	---	---
FEV1/FVC (%)	84.29	88.95	106	---	---	---
FEF25-75 (L/s)	04.66	04.16	089	---	---	---
PEFR (L/s)	10.09	08.31	082	---	---	---
FIVC (L)	---	03.41	---	---	---	---
FEV.5 (L)	---	02.74	---	---	---	---
FEV3 (L)	04.08	03.89	095	---	---	---
PIFR (L/s)	---	05.03	---	---	---	---
FEF75-85 (L/s)	---	01.41	---	---	---	---
FEF.2-1.2 (L/s)	08.25	07.82	095	---	---	---
FEF 25% (L/s)	08.52	07.83	092	---	---	---
FEF 50% (L/s)	06.26	04.94	079	---	---	---
FEF 75% (L/s)	03.34	01.93	058	---	---	---
FEV.5/FVC (%)	---	70.44	---	---	---	---
FEV3/FVC (%)	97.14	100.00	103	---	---	---
FET (Sec)	---	02.14	---	---	---	---
ExplTime (Sec)	---	00.07	---	---	---	---
Lung Age (Yrs)	029	030	103	---	---	---
FEV6 (L)	04.20	---	---	---	---	---
FIF25% (L/s)	---	04.40	---	---	---	---
FIF50% (L/s)	---	04.90	---	---	---	---
FIF75% (L/s)	---	04.94	---	---	---	---

NORMAL SPIROMETRY


 Dr. SHASHANK K DAS
 MBBS, DCCD
 PULMONOLOGIST
 KMC Reg. No. 11189

AUDIO GRAM

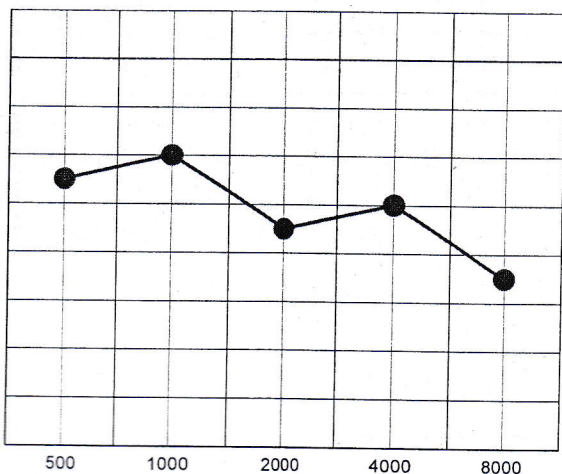


RIA DIAGNOSTICS DOC NO: F - 8. 2. 4. - 02

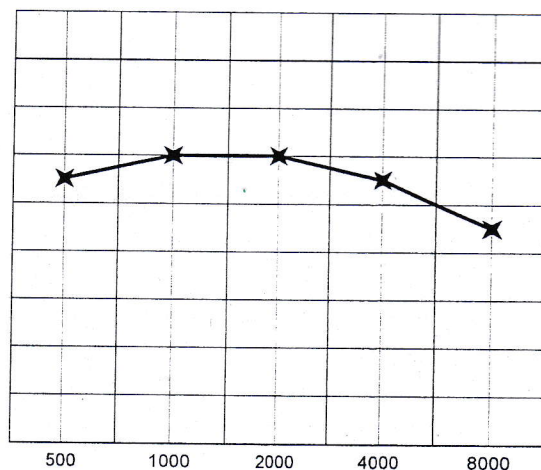
Name Of The Company : **RAMCO INDUSTRIES LIMITED BIHAR(STAFF)**
 PLOT NO.A1,BIADA INDL AREA,BIHIYA-802152,DIST BHOJPUR(BIHAR)

Name Of The Employee : Mr. RAMSAI S Date 23-Apr-2018
 Age : 29
 Sex : Male
 Employee No : 10305
 SI No : 58
 Department : MAINTENANCE ELECTRICAL

RIGHT (HERTZ)



LEFT (HERTZ)



(dB)

0
10
20
30
40
50
60
70
80

EAR	PURE TONE AVERAGE (dB)
RIGHT	Low Frequency : 27
	High Frequency : 38
LEFT	Low Frequency : 22
	High Frequency : 30

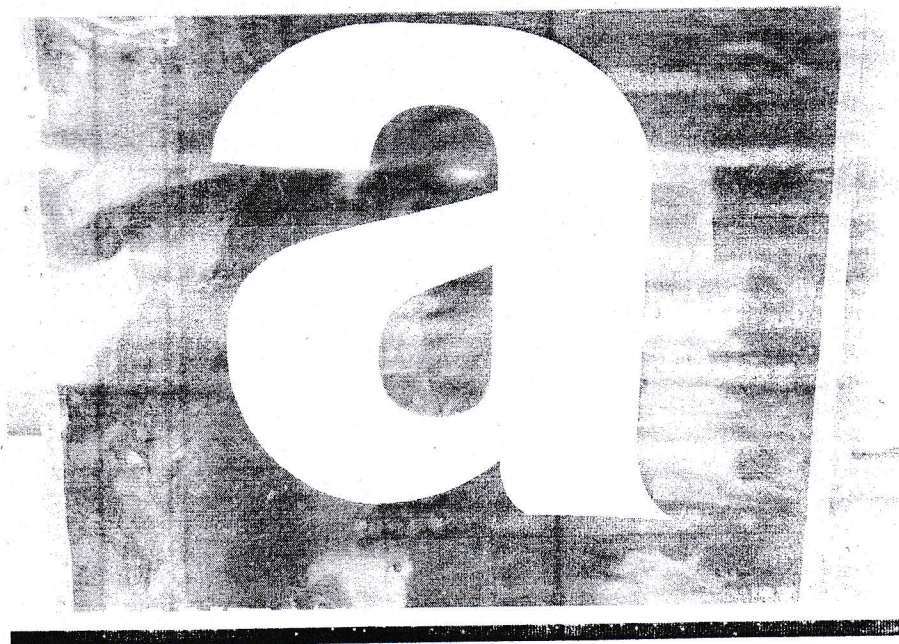
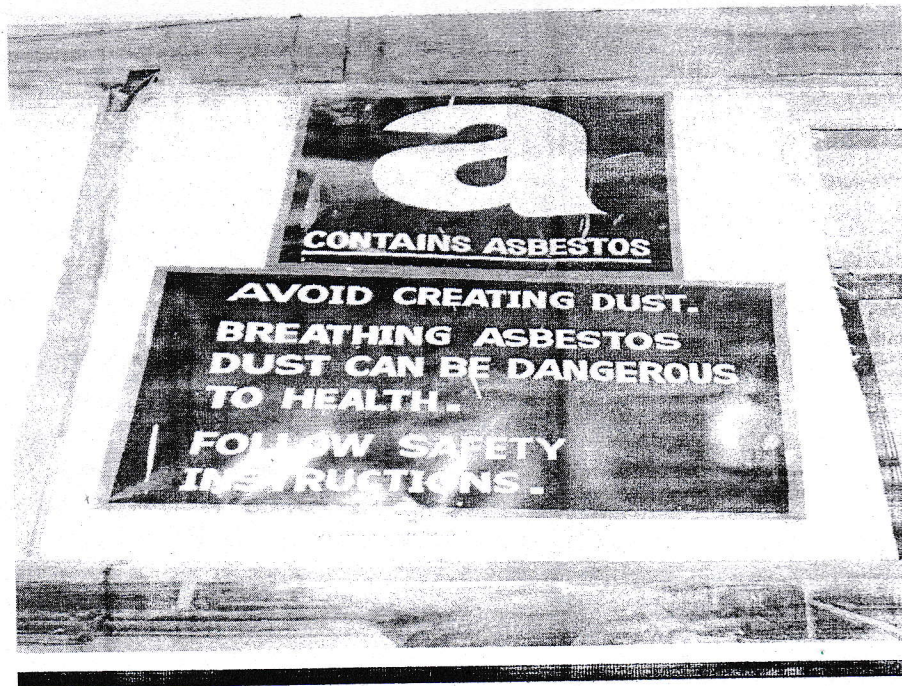
AUDIOLOGICAL INTERPRETATION :

Bilateral Hearing Within Normal Limits

RECOMMEDATION :

Audiologist / Doctor

Annexure-5



Medical Checkup



RAMCO INDUSTRIES LIMITED

Test Report

Details Of Sample :- Monitoring of Ambient Air Quality
Sample Collected by :- Mr.Ganesh
Sample Location :- Premises of Ramco Bihiya
Method of Sampling :- IS5182(Part-14)
Details Of Sample Container :- Filter paper:Glass Impinger

S.No.	Parameters	Sampling Station				Limit as NAAQS Nov 2009 ($\mu\text{g}/\text{m}^3$)
		Near Office	Main Gate	Stripping Area	Near Laboratory	
	Sample taken Date	01.04.18	02.04.18	03.04.18	05.04.18	
1	Particulate Matter (PM_{10}) $\mu\text{g}/\text{m}^3$	62.8	62.2	52.3	48.6	100
2	Particulate Matter ($\text{PM}_{2.5}$) $\mu\text{g}/\text{m}^3$	13.6	22.4	19.6	14.2	60
3	Sulphur Dioxide as SO_2 , $\mu\text{g}/\text{m}^3$	10.2	7.6	19.1	10.2	80
4	Nitrogen Dioxide as NO_2 , $\mu\text{g}/\text{m}^3$	18.6	9.2	11.1	13.2	80

For RAMCO INDUSTRIES LTD.

Ganesh
Checked by

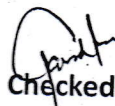
Parlyh
Verified by
(AUTHORIZED SIGNATORY)

RAMCO INDUSTRIES LIMITED

Test Report

Details Of Sample :- Monitoring of Ambient Air Quality
 Sample Collected by :- Mr.T.Mayappan
 Sample Location :- Premises of Ramco Bihiya
 Method of Sampling :- IS5182(Part-14)
 Details Of Sample Container :- Filter paper:Glass Impinger

S.No.	Parameters	Sampling Station				NAAQS Nov 2009
		Near Office	Main Gate	Strippin g Area	Near Laborat ory	
	Sample taken Date	01.05.18	02.05.18	03.05.18	04.05.18	
1	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	62.5	61.2	50.1	51.2	100
2	Particulate Matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	14.1	23.8	18.2	16.4	60
3	Sulphur Dioxide as SO ₂ , $\mu\text{g}/\text{m}^3$	13.3	7.9	18.2	11.4	80
4	Nitrogen Dioxide as NO ₂ , $\mu\text{g}/\text{m}^3$	16.7	9.9	15.1	13.4	80


 Checked by -

For RAMCO INDUSTRIES LTD

 Verified by
 AUTHORIZED SIGNATORY

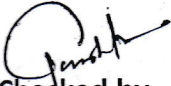
RAMCO INDUSTRIES LIMITED

Test Report

16

Details Of Sample :- Monitoring of Ambient Air Quality
Sample Collected by :- Mr.Ganesh
Sample Location :- Premises of Ramco Bihya
Method of Sampling :- IS5182(Part-14)
Details Of Sample Container :- Filter paper:Glass Impinger

S.No.	Parameters	Sampling Station				NAAQS Nov 2009
		Near Office	Main Gate	Strippin g Area	Near Laborat ory	
	Sample taken Date	01.06.18	02.06.18	03.06.18	04.06.18	
1	Particulate Matter (PM ₁₀) µg/m ³	52.8	50.3	50.7	63.4	100
2	Particulate Matter (PM _{2.5}) µg/m ³	17.8	23.7	19.5	45.1	60
3	Sulphur Dioxide as SO ₂ , µg/m ³	32.8	17.2	25.89	36.4	80
4	Nitrogen Dioxide as NO ₂ , µg/m ³	28.6	31.7	8.24	42.9	80


Checked by -

For RAMCO INDUSTRIES LTD.

Verified by
(AUTHORIZED SIGNATORY)

RAMCO INDUSTRIES LIMITED

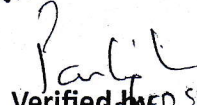
Test Report

Details Of Sample :- Monitoring of Ambient Air Quality
 Sample Collected by :- Mr.T.Mayappan
 Sample Location :- Premises of Ramco Bihiya
 Method of Sampling :- IS5182(Part-14)
 Details Of Sample Container :- Filter paper:Glass Impinger

S.No.	Parameters	Sampling Station				2009
		Near Office	Main Gate	Stripping Area	Near Laboratory	
	Sample taken Date	01.07.18	02.07.18	03.07.18	04.07.18	
1	Particulate Matter (PM ₁₀) µg/m ³	62.55	60.2	50.9	51.4	100
2	Particulate Matter (PM _{2.5}) µg/m ³	14.5	20.5	17.3	15.8	60
3	Sulphur Dioxide as SO ₂ , µg/m ³	12.85	7.54	18.42	11.69	80
4	Nitrogen Dioxide as NO ₂ , µg/m ³	14.95	11.42	14.53	13.54	80


 Checked by -

For RAMCO INDUSTRIES LTD.


 Verified by
 (AUTHORISED SIGNATORY)

RAMCO INDUSTRIES LIMITED

Test Report

Details Of Sample :- Monitoring of Ambient Air Quality
Sample Collected by :- Mr.Ganesh
Sample Location :- Premises of Ramco Bihiya
Method of Sampling :- IS5182(Part-14)
Details Of Sample Container :- Filter paper:Glass Impinger

S.No.	Parameters	Sampling Station				NAAQS Nov 2009
		Near Office	Main Gate	Strippin g Area	Near Laborat ory	
	Sample taken Date	01.08.18	02.08.18	03.08.18	04.08.18	
1	Particulate Matter (PM ₁₀) µg/m ³	52.4	51.4	50.8	60.5	100
2	Particulate Matter (PM _{2.5}) µg/m ³	19.4	23.4	19.8	56.25	60
3	Sulphur Dioxide as SO ₂ µg/m ³	32.7	17.6	20.8	36.4	80
4	Nitrogen Dioxide as NO ₂ µg/m ³	26.7	32.5	10.5	42.7	80

For RAMCO INDUSTRIES LTD.


Checked by -


Verified by
AUTHORIZED SIGNATORY

RAMCO INDUSTRIES LIMITED

Test Report

Details Of Sample :- Monitoring of Ambient Air Quality
Sample Collected by :- Mr.Maiyappan
Sample Location :- Premises of Ramco Bihiya
Method of Sampling :- IS5182(Part-14)
Details Of Sample Container :- Filter paper:Glass Impinger

S.No.	Parameters	Sampling Station				Limit as NAAQS Nov 2009
		Near Office	Main Gate	Strippin g Area	Near Laborat ory	
	Sample taken Date	01.09.18	02.09.18	03.09.18	04.09.18	
1	Particulate Matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	52.4	50.4	51.7	60.2	100
2	Particulate Matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	16.9	23.7	19.5	45.2	60
3	Sulphur Dioxide as SO ₂ $\mu\text{g}/\text{m}^3$	32.5	17.2	25.2	36.14	80
4	Nitrogen Dioxide as NO ₂ $\mu\text{g}/\text{m}^3$	28.7	31.7	8	42.5	80

T. Maiyappan
Checked by -

For RAMCO INDUSTRIES LTD.

P. Raju
Verified by
AUTHORISED SIGNATORY

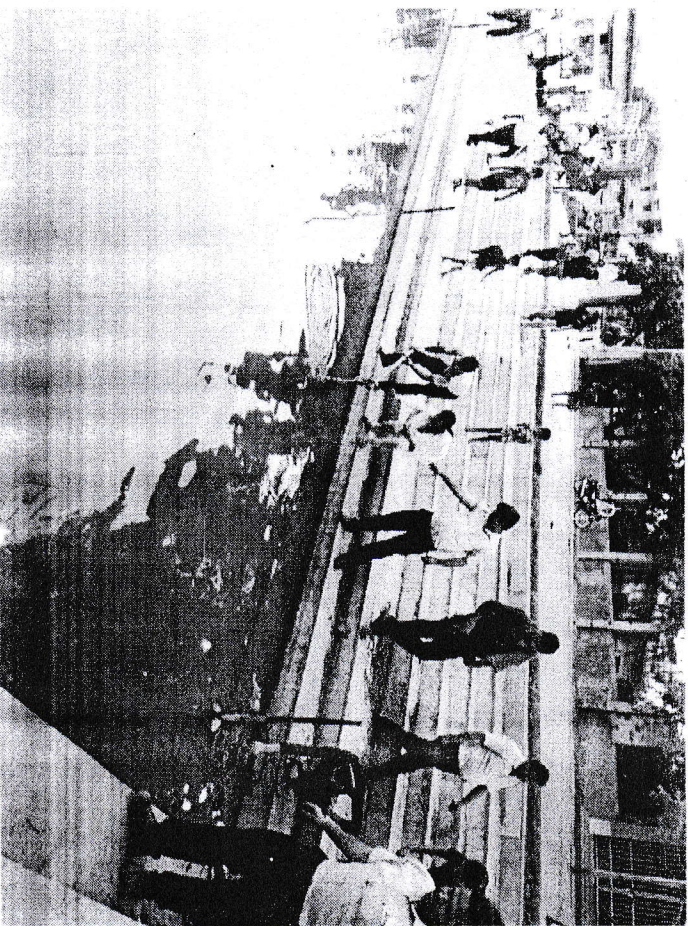
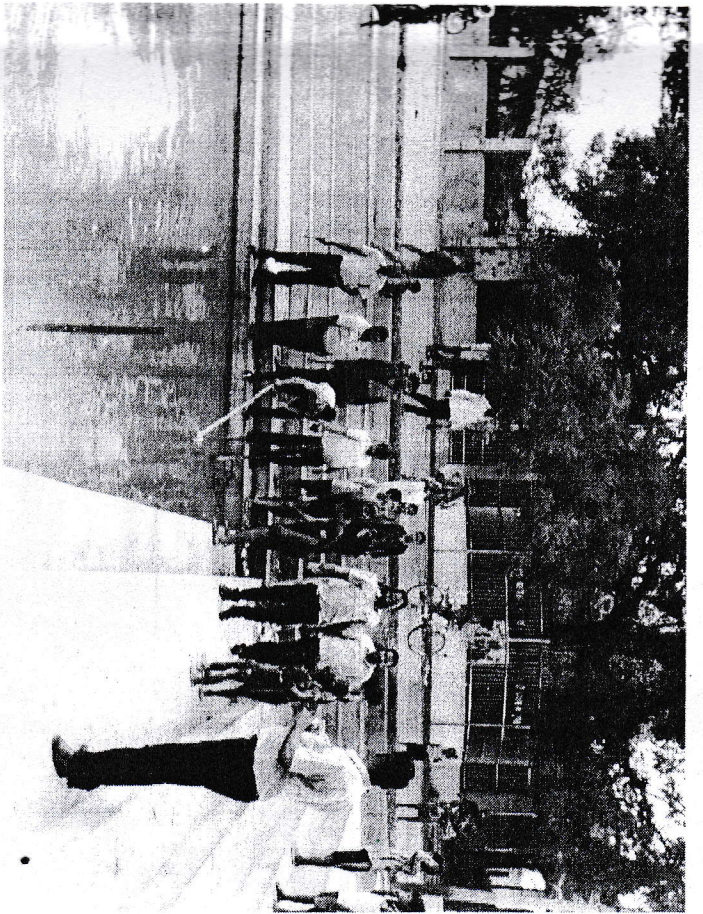
WORLD ENVIRONMENT DAY

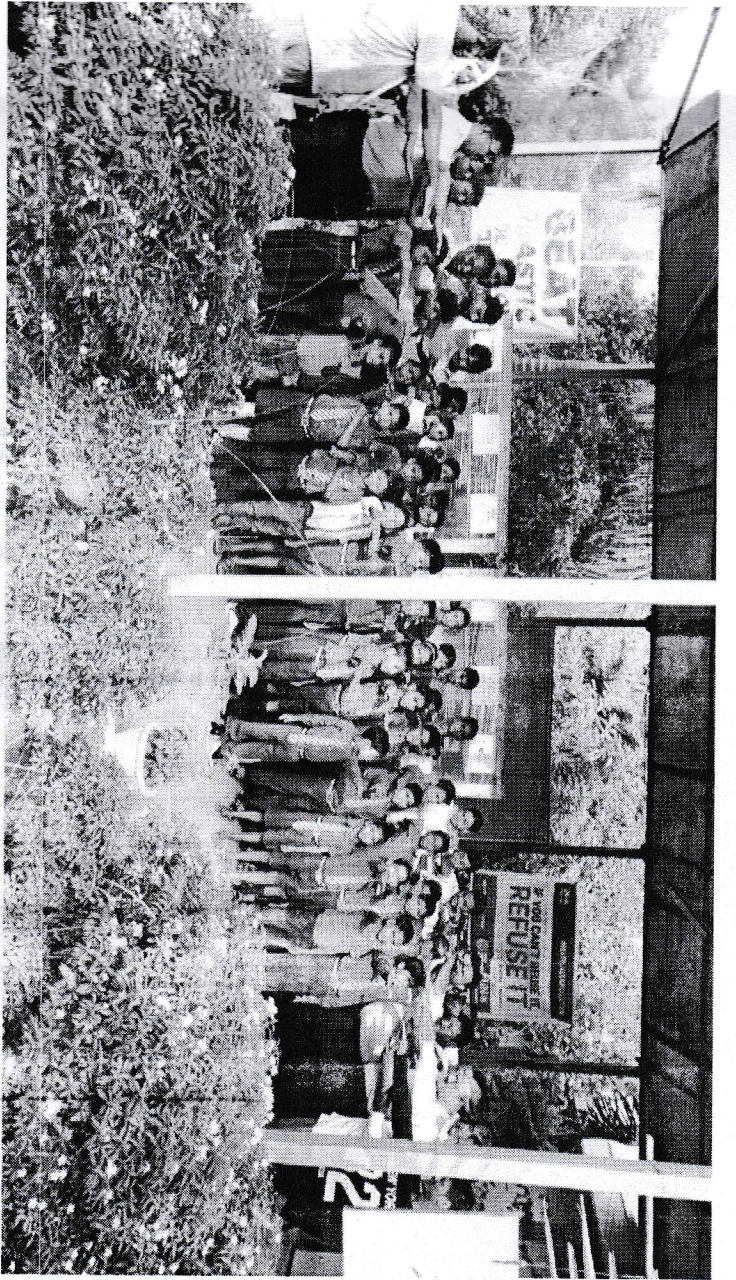
5TH JUNE 2018

THEME BEAT PLASTIC POLLUTION

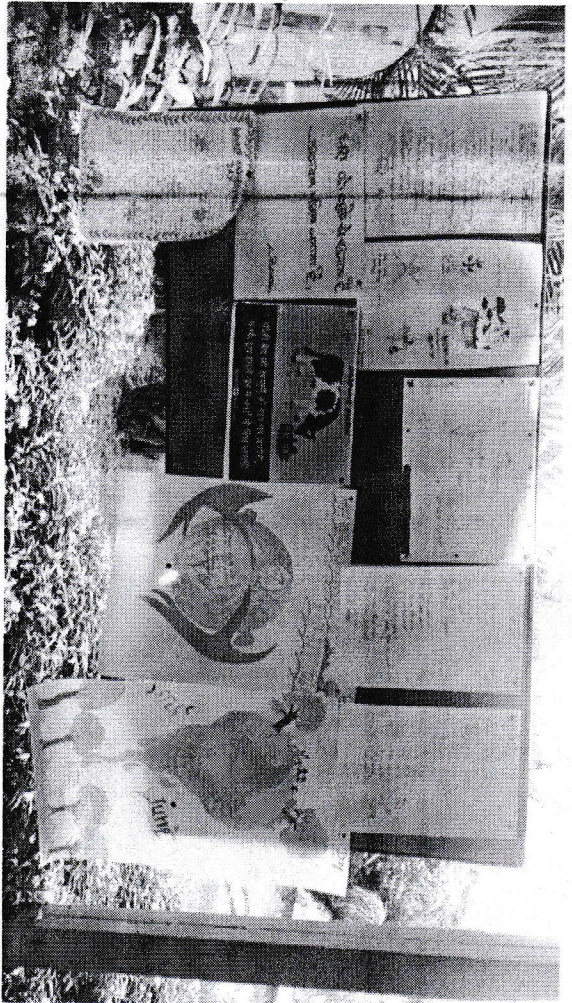
**RAMCO INDUSTRIES LTD
BIHIYA , BHOJPUR , BIHAR**

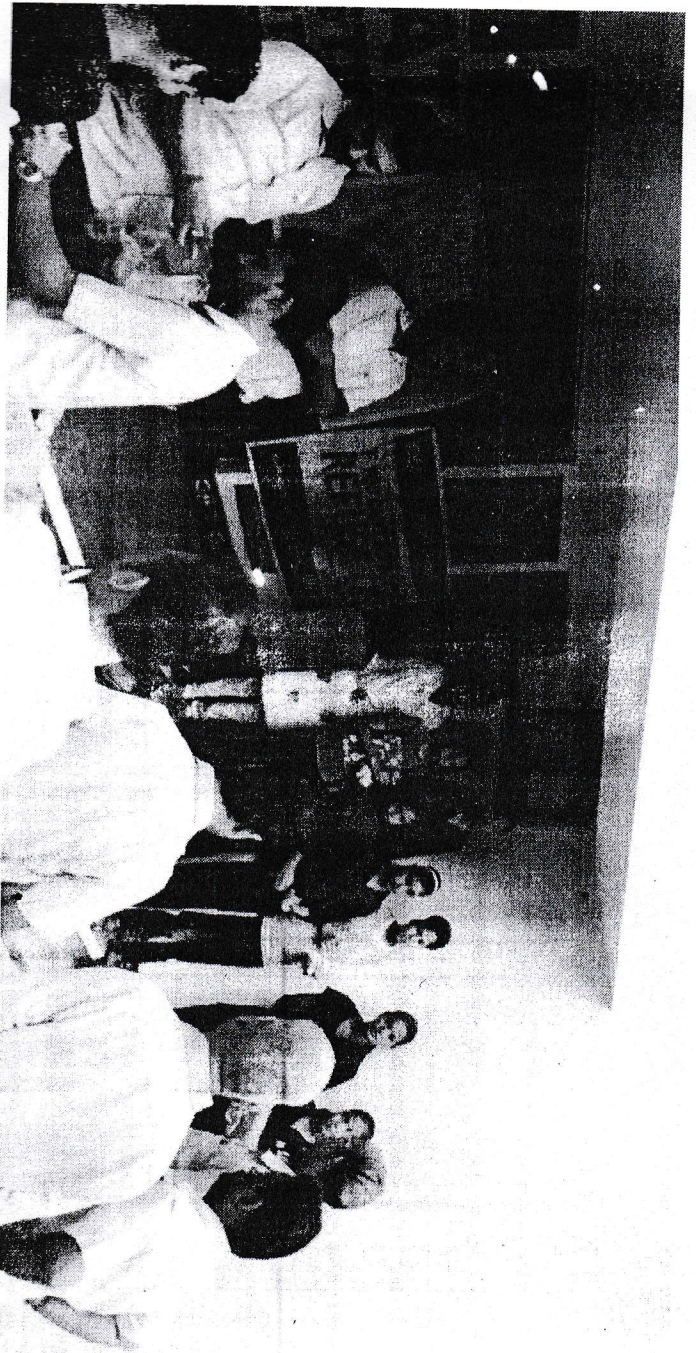
Cleaning of plastic waste in a nearby pond in Bihiya Village by employees of Ramco along with School children





School children participating in slogan, drawing & painting competition at Ramco premises





**Prize distribution - For
The contribution
done in pond cleaning
work On World on
Environment day**

