

Dewanmaro Ayma

# Ramco Industries Limited

Date: 27/04/2019

To,  
Director (S),  
Government of India,  
Ministry of Environment & Forests,  
Eastern Region,  
A/3, Chandrasekharapur,  
Bhubaneswar-751023.

## Sub: Six Month Compliance Report

Dear Sir,

We are submitting our six-month compliance report from October'18 to March'2019 duly complied with.

Kindly acknowledge the same.

Thanking you,

Yours faithfully,

For Ramco Industries Ltd.  
For Ramco Industries Ltd.

Abhijit Bandyopadhyay  
Deputy General Manager (E&F)  
(Dy. General Manager)



Encl:

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

## Note: For Publishing in website

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

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

EW183022874 IN IVR:6987183022874  
SP DHEKIA SO <721304>  
Counter No:1,29/04/2019,12:03  
To:THE DIRECTOR, MINISTRY OF E&F,  
PIN:751023, S.E Rly.Proj. Complex S.O.  
From:RAMCO INDU. LTD, DEWANMARO  
Wt:575gms  
Amt:106.20(Cash)Tax:16.20  
<Track on www.indiapost.gov.in>  
<Dial 1800 266 6868>  
EW183022755 IN IVR:6987183022755  
SP DHEKIA SO <721304>  
Counter No:1,29/04/2019,12:03  
To:THE ENVI. ENG. HALDIA REG. OFFI  
PIN:721602, Durgachak SO  
From:RAMCO INDU. LTD, DEWANMARO  
Wt:570gms  
Amt:76.70(Cash)Tax:11.17  
<Track on www.indiapost.gov.in>  
<Dial 1800 266 6868>

## COMPLIANCE STATUS OF Ministry of Environment and Forests

Letter No J-11011/22/2011-IA II (I), Dated 10<sup>th</sup> May, 2013

CONDITIONS	COMPLIANCE STATUS
<b>A. Specific conditions:</b>	
i. The project proponent shall adhere to the prescribed BIS standards and laws regarding use of asbestos, safety of employees etc. Raw Materials like asbestos fibre and cement should be transported in closed containers. Asbestos fibre should be brought in palletized form, in impermeable bags and under compressed condition	We strictly adhere to the prescribed BIS standards and law regarding use and handling of asbestos safety of employee etc. Raw materials like asbestos fiber and cement are always transported in closed containers. Asbestos fiber always brought in palletized form in impermeable bags and under compress condition.
ii. Only Chrysotile white asbestos fibre shall be used. Blue asbestos should not be utilized as a raw material in the manufacturing process.	We use only WHITE CHRYSOTILE Fibre as raw material in the manufacturing process and we do not use blue asbestos.
iii. There should be no manual handling/opening of asbestos fibre bags. The company should install fully automatic asbestos fibre debagging system	There is no manual handling/opening of asbestos fibre bags. Fibre is stored in polythene woven bags and unloaded in the automatic bag-opening device (BOD) wherein the bags are automatically shredded. Thus, no manual handling comes into picture due to installation of fully automatic asbestos fibre debagging system.
iv. Fugitive emission shall be controlled by bringing cement in closed tankers, flyash in covered trucks and asbestos in impervious bags inside a closed mixer. Dust collectors shall be provided to fibre mill, Bag opening device (BOD), cement and flyash silos to control emissions. Bag filters followed by wet washer shall be provided at automatic bag opening machine, bag shredder, fibre mill and to cement silo to collect the dust and recycle it into the process. Fugitive emissions generated from hopper of Jaw crusher and pulverizer shall be channelized through hood with proper suction arrangement, bag filter and stack.	Fly ash received in bulk tankers are conveyed pneumatically to the respective silos and there are no fugitive emissions. Bag filters followed by wet washer are provided at automatic bag opening machine bag shredder and fiber mill, Cement, Fly ash silos and rejected sheets pulverizer to collect the dust and recycle into the process. Asbestos fibre count is being monitored at pulverizer area found within the permissible limit.  Fugitive emission results at: 1. Pulverizer area- 0.096 f/cc
v. The company shall comply with total dust emission limit of 2mg/Nm <sup>3</sup> as notified under the Environment (protection) Act, 1986. Adequate measure should be adopted to control the	We are complying with total dust emission limit of 2mg/Nm <sup>3</sup> as notification under the Environment (Protection) Act, 1986. Adequate





<p>process emission and ensure that the stack emission of asbestos fibre should not exceed the emission limit 0.2f/cc. asbestos fibre in work zone environment shall be maintained within 0.1 fibre/cc.</p>	<p>measures have been adopted to control the process emission. We ensure that the stack emission of asbestos fiber will not exceed the emission limit of 0.2 fiber/cc. Asbestos fiber in work zone environment is maintained with in 0.1fiber/cc.</p> <p>Reports are enclosed herewith.</p>
<p>vi. Bag containing asbestos fibre shall be stored in enclosed area to avoid fugitive emissions of asbestos fibre from damaged bags, if any.</p>	<p>Bags containing asbestos fiber are stored in enclosed place to avoid fugitive emissions of asbestos fiber from damaged bags.</p>
<p>vii. Proper housekeeping shall be maintained within the plant premises. Process machinery, exhaust and ventilation shall e laid in accordance with Factories Act. Better housekeeping practices shall be adopted for improvement of the environment within the work environment also. These includes:</p> <ol style="list-style-type: none"> <li>All monitoring transfer points shall be connected to dust extraction system.</li> <li>Leakage or dust from machines and ducts shall be plugged.</li> <li>Floor shall be cleaned by vacuum cleaner only.</li> <li>Enclosed belt conveyer shall be used instead of manual transportation of asbestos within the premises.</li> </ol>	<p>Proper housekeeping maintained within the plant premises, process and machinery. Exhaust ventilation system is installed in accordance with factories Act.</p> <p>For better housekeeping, following practices are adopted for improvement of the environment within the work environment.</p> <ol style="list-style-type: none"> <li>Wet mopping being done in shop floor.</li> <li>Vacuum cleaning done at BOD &amp; ER mill are.</li> <li>Wet waste is collected in clarifier and recycled in the process.</li> <li>Process water is collected in two Cone tank and recycled in the process.</li> <li>Broken sheets are collected and pulverized &amp; reused in the process.</li> </ol> <ol style="list-style-type: none"> <li>1) BOD &amp; ER Mill-dust collector with bag filters &amp; wet scrubber attached and also fibre count is being monitored. Asbestos fibre count-0.028 f/cc</li> <li>2) Slurry mixer to storage tank- Connected to dust collector and also fibre count is being monitored. Asbestos count- 0.060 f/cc</li> </ol> <p>b) During monitoring of fugitive dust on 28.01.19 in BOD &amp;</p>



	<p>Slurry mixer area there was no leakage observed and found all ducts are in good condition.</p> <p>c) We are cleaning the shop floor with the help of Vacuum Cleaner (Capacity-1800 LPM).</p> <p>d) Asbestos fibre is being transported from fibre godown through Forklift &amp; through roller conveyor fibre bag are fed into the BOD.</p>																				
<p>viii. Quarterly monitoring of pollutant (PM<sub>10</sub>, asbestos fibre count) in the work zone area and stack(s) shall be undertaken by the project proponents. In addition, asbestos fibre count including the fugitive dust in the work zone area shall be monitored by an independent monitoring agency like NIOH/ITRC/NCB or any other approved agency on six monthly basis and reports shall be submitted to the Ministry's Regional Office at Bhubaneswar, SPCB and CPCB.</p>	<p>Monitoring of Asbestos fibre count at work place is being done monthly at 9 locations by us &amp; found well within the norms.</p> <p>Half yearly monitoring of asbestos fibre count in work zone (including Fugitive dust) is being monitored by external agency, M/s CVR Lab, Chennai. Results are:</p> <table border="1"> <tr> <th>Workplace</th><th>F/cc</th></tr> <tr> <td>Fibre godown</td><td>0.069</td></tr> <tr> <td>BOD &amp; ER mill</td><td>0.060</td></tr> <tr> <td>Slurry mixer</td><td>0.060</td></tr> <tr> <td>Stripping</td><td>0.097</td></tr> <tr> <td>Moulding</td><td>0.098</td></tr> <tr> <td>Auto Box</td><td>0.096</td></tr> <tr> <td>Pulverizer</td><td>0.096</td></tr> <tr> <td>QC Lab</td><td>0.009</td></tr> <tr> <td>Ball mill</td><td>0.098</td></tr> </table> <p>Also fibre dust &amp; fibre count are being monitored in our fibre stack by M/s Indicative Consultant &amp; by CVR Lab. Results are: Fibre concentration-0.17 f/cc Total Dust- 1.72 mg/Nm<sup>3</sup>.</p>	Workplace	F/cc	Fibre godown	0.069	BOD & ER mill	0.060	Slurry mixer	0.060	Stripping	0.097	Moulding	0.098	Auto Box	0.096	Pulverizer	0.096	QC Lab	0.009	Ball mill	0.098
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	The reports are being submitted to State Pollution Control Board & Ministry once in 6 months.									
ix. As reflected in the Environmental Management Plan, all the treated effluent shall be recycle and reused in the manufacturing process. No process water shall be discharged outside the premises and 'zero' discharge shall be maintained. All the domestic waste water shall be treated in septic tank followed by soak pit and used for green belt development.	The entire process water is recycled and reused in the manufacturing process. There are no process water discharged outside the premises and we are maintaining ZERO discharge. The domestic waste water is treated in septic tank followed by soak pit and used for green belt development.									
x. The Company shall ensure that the entire solid waste generated including process rejects, cement, flyash, dust from bag filters and empty asbestos bag shall be recycled back in the manufacturing process. There will be no solid waste disposal outside the plant premises. Asbestos fibres which cannot be further recycled due to contamination of iron dust shall be stored in HDPE lined secured landfill. The disposal facilities for asbestos waste shall be in accordance with the Bureau of Indian Standard Code.	We ensure that the entire solid waste generated including process rejects, dust from bag filters and empty asbestos bags are recycled the manufacturing process. <table><tr><td>Waste type</td><td>Qty.</td><td>Remarks</td></tr><tr><td>Broken AC Sheets</td><td>42 MT/m onth</td><td>Reused in the process</td></tr><tr><td>Dust From dust collectors</td><td>0.71 MT/m onth</td><td>Reused in the process</td></tr></table>	Waste type	Qty.	Remarks	Broken AC Sheets	42 MT/m onth	Reused in the process	Dust From dust collectors	0.71 MT/m onth	Reused in the process
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Broken AC Sheets	42 MT/m onth	Reused in the process								
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xi. The cut and damaged fibre bags shall be repaired immediately. Empty fibre bags will be shredded into fine particles in a bag shredder and recycled into the process. Piling of AC sheets shall be done in wet condition only.	The cut and damaged fibre bags if any found are being repaired immediately by fixing the adhesive tape. Empty fiber bags are shredded into fine particles in a bag shredder and recycled into the process.									
xii. The Company shall obtain a certificate from the supplier of Chrysotile fibre that it does not any toxic or trace metals. A copy of certificate shall be submitted to the Ministry of Environment and Forest.	There is no toxic or trace elements found in the fibre supply.  Also we have attached reports from the Fibre suppliers for your reference.									





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





	<p>2) Fund towards Ambulance purchase.</p> <p>3) Construction for School building, etc.</p>
xix. The company shall provide housing for construction labour within the site with all necessary infrastructure & facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project.	We have provided all necessary infrastructure and facilities to our labour working in the site.
<b>B. General Conditions:</b>	
i. The project authorities must strictly adhere to the stipulations made by the West Bengal Pollution Control Board & the State Government.	We strictly adhere to the stipulations made by the West Bengal Pollution Control Board and the State Government.
ii. No further expansion/modification in the plant should be carried out without prior approval of the Ministry Of Environment and Forest.	No further expansion/ modifications in the plant will be carried out without prior approval of the Ministry of Environment and Forests.
iii. At least four ambient air quality monitoring stations should be established in the downward direction as well as where maximum ground level concentrations of PM10, SO2 & NOx are anticipated in consultation with the CPCB. Data on ambient air quality & stack emission shall be regularly submitted to this Ministry including its Regional Office at Bhubaneswar & the SPCB/CPCB in six months.	<p>We are monitoring ambient air quality in three locations of the plant by external agency. Next time we have to monitor in four locations.</p> <p>We are also sending those monitored results to MOEF, Bhubaneswar and State pollution control board.</p> <p>We have attached herewith the Ambient Air Quality Record done by M/s Indicative Consultant India.</p>
iv. Industrial waste water shall be properly collected, treated so as to conform to the standard prescribed under GSR 422 (E) dated 19 <sup>th</sup> May, 1993 & 31 <sup>st</sup> December, 1993 or as amended from time to time. The treated waste water shall be utilized for plantation purpose.	All our process water is 100% reused in our manufacturing process.
v. The overall noise levels in and around the plant area shall be kept well within the standard (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (day time) & 70 dBA (night time).	Noise levels in and around the Plant area are monitored regularly and is well under the limit.





vi.	Occupational health surveillance of the workers shall be done on a regular basis & records maintained as per the Factories Act.	Regular medical examination of the workers and health monitoring of all the employees are carried out by a competent occupational health physician. The occupational health monitoring is being done as per factories act.
vii.	The company shall develop rain water harvesting structure to harvest the rain water for utilization in the lean season besides recharging the ground water.	Rain water harvesting pond has been developed to augment ground water during rainy season.
viii.	The project proponent shall also comply with all the environmental protection measures & safeguards recommended in the EIA/EMP report. Further, the company must undertake socio-economic development activities in the surrounding villages like community development programmes, educational programmes, drinking water supply & health care etc.	We are complying with safe guards recommended in the EIA/EMP report. Also we are regularly doing C.S.R activities.
ix.	Requisite funds shall be earmarked towards capital cost & recurring cost/annum for environment pollution control measures to implement the conditions stipulated by the Ministry of Environment & Forests as well as the State Government. An implementation schedule for implementing all the conditions stipulated herein shall be submitted to the Regional office of the Ministry at Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	Environmental Expenses details are Recurring Expenses: - October, 2018 to March, 2019- Rs-867316/-  1) Garden Maintenance & Plantation- Rs-85888/- 2) Personal Protective equipment, like Nose mask, hand gloves, Gum boot, etc- Rs-436428/- 3) Environmental Monitoring jobs-345000/-
x.	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body & the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also put on the web site of the company by the proponent.	Copy of EC accorded has been sent to local panchayat & Zila parishad. We have uploaded our EC in our company website.
xi.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website & shall update the same periodically. It shall simultaneously be	We have uploaded the six monthly compliance reports in our company website.





	<p>sent to the Regional Office of the MoEF at Bhubaneswar. The respective Zonal office of CPCB &amp; the SPCB. The criteria pollutant levels namely; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels as well as stack emissions) or critical sectorial parameters, indicated for the projects shall be monitored &amp; displayed at a convenient location near the main gate of the company in the public domain.</p>	<p>We are regularly sending six monthly compliance reports to MOEF regional office every 6 months. We have also made available relevant critical parameters in display board near the main gate.</p>
xii.	<p>The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF, the respective Zonal Office of CPCB &amp; the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.</p>	<p>The monitoring data has already been sent to the office along with the compliance report for the period April-18 to September-18 in the month of October, 2018.</p>
xiii.	<p>The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned state Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions &amp; shall also be sent to the respective Regional Office of the MoEF at Bhubaneswar by e-mail.</p>	<p>We are regularly sending the Environmental statement (Form-V, year ending Mar/31<sup>st</sup>) to state pollution control board.  Also uploaded this in our website.</p>
xiv.	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the ministry &amp; copies of the clearance letter are available with the SPCB &amp; may also be seen at website of the Ministry of Environment &amp; Forests at <a href="http://envfor.nic.in">http://envfor.nic.in</a>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language to the Regional Office at Bhubaneswar.</p>	<p>We have informed the public through the local newspaper announcement that the project has been accorded environmental clearance by the ministry and copies of the clearance are available with state pollution control board/committee and may also see at website of the MoEF at <a href="http://envfor.nic.in">http://envfor.nic.in</a>.</p>
xv.	<p>Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure &amp; final approval of the project by the concerned authorities &amp; the date of commencing the land development work.</p>	<p>Information with date of financial closure and final approval given are informed to Ministry of Environment and Forest. Date of Financial closure-07.11.2012. Date of Final approval-03.08.2013.</p>

