RASHMI GROUP
A House of Infrastructure Solutions

RASHMI METALIKS LIMITED

REGD. & CORPORATE OFFICE : PREMLATA BUILDING, 39, SHAKESPEARE SARANI
6TH FLOOR, KOLKATA - 700 017, INDIA. TEL. : (033) 22894255/56, FAX : 2289-4254
Website : www.rashmigroup.com • CIN No. - U27109WB2004PLC097737

O/C

Ref. RML/ENV COMPL / June _2017

Date: 15.05.2017

To,

Ministry of Environment and Forests
Eastern Regional Office,
A/3 Chandra Sekhar Pur,
Bhubaneswar – 751023
State: Odisha

Sub. **Six Monthly (June- 2017) Compliance Report** for Period October 2016 to March 2017 for Steel plant (5, 00,000 TPA, MBF, SMS & Sponge Iron etc.) by **M/s Rashmi Metaliks Limited,** at Village-Gokulpur, P.O.-Shyamraipur, District-Paschim Midnapore (W.B.)

Ref: -

1. **EC: Ministry's letter No. J-11011/227/2007-I(A) dated : 12.06.2008**

Dear Sir,

With reference to the above, we are hereby submitting the six monthly compliance reports for period from October 2016 to March 2017 of EC No- **J-11011/227/2007-I(A) dated : 12.06.2008** for Steel plant (5, 00,000 TPA, MBF, SMS & Sponge Iron etc.) at - Village-Gokulpur, P.O.-Shyamraipur, District-Paschim Midnapore, (W.B.), in the name of **M/s Rashmi Metaliks Limited** in Hard Copy.

Here we would like to inform that EC for Sponge Iron Plant Unit (Capacity 6, 00,000 TPA (DRI Kilns-10 x 100 TPD & 3 x 350 TPD) along with AFBC, CFBC and upcoming 1 x 320 m^3 MBF at Gokulpur, Shyamraipur, Kharagpur, Dist- Paschim Medinipur, West Bengal, Pin – 721301 got transferred by MoEF, New Delhi vide File No: J-11011/227/2007-I A II (I) ; dated 6th January 2017 in the name of M/s Orissa Metaliks Private Limited, having registered office at, Grastin Place, 'Orbit', 3rd Floor, and Room No. 3B, Kolkata-700001 .

As per Environment Clearance, Special as well as General Condition wise status report along with monitoring data for the environmental parameters is enclosed for your kind perusal.

We assured that we will comply all the conditions laid down in the consent letter and also abide to follow all the Rules & Regulations.

Hope you will find the same in order.

Thanking you.

Yours Faithfully,

For, M/s Rashmi Metaliks Limited

Authorised Signatory

C.C:-

1. **The Member Secretary**
   West Bengal Pollution Control Board, Parivesh Bhawan,
   10A Block – LA, Sector – III, Kolkata – 700 91

2. **Monitoring Cell,**
   Ministry of Environment and Forests
   Paryavaran Bhawan
   CGO Complex, Lodi Road
   New Delhi - 110 003

Enclosures:-

1. Compliance Report for EC; Dated 12.06.2008
2. Copy of Latest Monitoring Report as Annexure-I
3. Copy of AAQM Report as Annexure-II.
4. Copy of EC transfer certificate as Annexure-III
5. Copy of Fugitive Emission Report as Annexure-IV
6. Cost incurred on Green Pelt development for year 2016-2017 as Annexure-V.
7. CREP Detail As Annexure-VI
8. Effluent, Leachate & Ground water sampling Report is enclosed as Annexure-VII
9. Copy of Ambient Noise Quality Monitoring Report Annexure-VIII.
10. Occupational Health Surveillance detail as Annexure-IX
11. Cost incurred for ESR activated financial year 2016-17 as Annexure-X.

SIX MONTHLY COMPLIANCE REPORT

FOR

M/s RASHMI METALIKS LIMITED

Project Name- Steel plant (5, 00,000 TPA, MBF & SMS)

EC NO- J-11011/227/2007-I (A) dated: 12.06.2008

Location: - Village-Gokulpur, P.O-Shyamraipur, District-Paschim Midnapore (W.B.)

RASHMI GROUP

M/S RASHMI METALIKS LIMITED

HALF YEARLY ENVIRONMENTAL COMPLIANCE STATUS

REPORT- June 2017

Period- October 2016 to March 2017

Project Name- Steel plant (5, 00,000 TPA, MBF & SMS)

Location: - Village-Gokulpur; Shyamraipur; District- Paschim Medinipur (W.B.)

(Reference: EC No-J -11011/227/2007-IA II (I); Dated 12.06.2008)

A.	Specific Conditions :	Comments:
i)	Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. On-line stack monitoring facilities for all the stacks should be provided and sufficient air pollution control devices shall be provided and sufficient air pollution control devices shall be provided to keep the emission levels below 100 Mg/Nm^3. Data on ambient air quality and stack emissions should be regularly submitted to this Ministry including its Regional Office at Bhubaneswar, CPCB and W B Pollution Control Board (WBPCB) once in six months.	• Adequate Measures have been taken for reducing the RSPM levels in the ambient air like 1. Fixed water sprinklers are provided at the potential internal roads and raw materials handling areas. 2. Three numbers of Mobile water sprinklers tankers have been engaged for regular water sprinkling in the haul roads of construction areas for control of fugitive dust emission. Management complies with all the conditions issued by Central & state Government Authorities. Regular reports of Monitoring and compliance are submitted to Ministry at regional office, Bhubaneswar regularly. We have already installed online Stack Monitoring devices (i.e. Opacity Meter) in our most of the major stacks and remaining will be installed shortly. P.O already been placed. • Ambient Air Quality monitoring Analysis reports (where mentioning PM10, PM2.5, SO_x and NO_x level) are attached in as **Annexure No. – I** for your ready reference. • Latest stack monitoring results which was done by WBPCB-Haldia regional office are attached in Analysis report **Annexure – II** for your ready reference
ii)	As proposed, electrostatic precipitator (ESP) shall be provided to DRI kilns to control emissions within 100mg/Nm^3. The waste gases from the DRI kiln shall be passed	For the said portion of unit EC got transferred by MoEF, New Delhi vide File No. J-11011/227/2007 I A II (I) ; dated 6th January 2017 in the name of M/s Orissa Metaliks Private Limited.

	through ,dust Settling Chamber (DSC) to settle the duct particles and after Burning Chamber (ABC).The hot gases from ABC shall be taken to gas cleaning plant to burn the combustibles and cleaned in ESP.	Copy of the EC transfer letter is enclosed as **Annexure-III.**
iii)	Dust extraction system comprising of dry fog system including pulse jet bag filters shall be provided to the blast furnace stock house. Dust extraction system shall also be provided to blast furnace Gas cleaning system and fume extraction system shall be provided to the electric arc furnace (EAF). Bag filters shall be provided at the transfer points to control fugitive emissions. Dust suppression system shall be provided to control duct from raw material handling and storage area. The water shall be sprayed in the After Burning Chamber (ABC).	• Pollution control equipments of latest technology and high efficiency have been installed in various units as per stability. All pollution control equipments such as ESP's , Bag filters, Bag Houses , Cyclones, agglomeraor, wet scrubbers etc. are designed to meet the prescribed standard as per CPCB guide line. • Pulse jet bag filter is installed at Blast Furnace stock house and also provided with dry fog system for preventing the fugitive emissions. • A closed circuit cooling system is provided for BF cooling. The furnace is cooled externally by spraying water at three different levels on the furnace shell. All the tuyeres and tuber coolers are having one inlet and one outlet pipe for cooling. Water for cooling water will enter through the inlet pipe and will come out from the outlet pipe. • Fugitive emission controls at all the vulnerable points have been considered by dust suppressions, dust / fumes extractions systems etc. as applicable in RMHS, Sinter Plant, and BF Stock house etc. • Fugitive Emission Analysis reports are attached as **Annexure – IV** for your ready reference.
iv)	Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the Ministry and regularly monitored Guidelines/Code of Practice issued by the CPCB shall be followed.	• Adequate steps have been taken like use of water sprinkles, mechanical sweepers etc for dust suppression in order to meet The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R No. 826(E) dated 16th November 2009. • Fugitive emission/ work zone monitoring reports are attached in Analysis Report **Annexure – IV.**
v)	Total water requirement from Public Health Engineering Department shall not exceed 8,160 m^3/day. Effluent treatment plant (ETP)	• We have already obtained 3030 KLD water extraction permission from Kangsabati river bed and Bore well from West Bengal state Water

	shall be installed and all the treated wastewater including blow down water from Blast furnace, Sinter plant, Oxygen plant, SMS, Caster etc. Shall be recycled and reused in the process dust suppression and green belt development 'Zero' effluent discharge should be strictly followed and no wastewater should be discharged outside the premises.	Investigation Department. • But at this stage we are using only 1390 M^3/ day makeup water for basically cooling and spraying purpose. • Our plant has being designed as 'Zero 'effluent discharged concept and it will ensured by top management • Entire waste water which is generated from surface runoff and storm water is treated and recycled within plant premises for developing Green Belt, fire fighting , process makeup water for Iron ore Beneficiation • Our management has taken up eco- friendly (i.e. 3 R's , Reduce , Recycle & Reuse) philosophy for day to day plant operations , in this connection our management team trying to reduce the unit wise water consumptions and reuse the water after physical treatment in the same unit.
vi)	Prior 'Permission' for the withdrawal of 8,160 m^3/day water from the concerned department shall be obtained.	• We have already obtained 3030 KLD water extraction permission for industrial uses from West Bengal Water Investigation Department (SWID), Govt of West Bengal.
vii)	All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else. All the blast furnace (BF) slag shall be granulated and provided to cement manufactures for further utilization SMS slag shall also be properly utilized. All the other solid waste including broken refractory mass shall be properly disposed off in environment friendly manner.	• EC for Sponge Iron Plant Unit (Capacity 6, 00,000 TPA (DRI Kilns-10x100 TPD & 3x350 TPD) along with AFBC, CFBC and upcoming 1 x 320 m^3 MBF got transferred by MoEF, New Delhi vide File No: J-11011/227/2007-I A II (I) ; dated 6th January 2017 in the name of M/s Orissa Metaliks Private Limited . • MBF (1 x 215 m^3) – Slag is used for Cement Making in M/s Rashmi Cement Limited (sister concern) at Jhargram, West Bengal which is around 30 KM away from the project site. • SMS slag is crushed in metal recovery plant and is used in sinter plant and also used for internal road reappearing, low loaded block making etc. • Broken refractory mass, Kiln accretion are used for filling up the low lying areas, road construction etc. • Scales and scraps are recycled in SMS unit.

<table>
<tr><td>viii)</td><td>Coal and coke fines shall be recycled and reused in the process iron ore, fluxes, mill scale etc. Shall be recycled to sinter plant to produce sinter waste oil shall be sold to authorized recyclers/reprocesses.</td><td>• Iron ore fines are using in own sinter plant, Pellet plan-I
• Mill scales are re-cycled in SMS unit
• Used oils and lubricants are sold to CPCB authorized vendors/parties.</td></tr>
<tr><td>ix)</td><td>A time bound action plan shall be submitted to reduce solid waste, its proper utilization and disposal.</td><td>• Our plant design is based on 'Zero 'waste disposal concept and it will ensured by top management.
• All type of waste coming out from the different process will be re-used in other process after necessary treatment or changes.
• For examples :
➢ Iron Ore Fines : Pellet plant and Sinter plant
➢ SMS Slag : Crushed in metal recovery plant and reused in Sinter plant
➢ MBF Slag : Used in Cement Plant
➢ Mill Scales : Recycled in SMS unit
➢ Coke Fines : Used in Sinter Plant
• Our management has taken up eco- friendly (i.e. 3 R's , Reduce , Recycle & Reuse) philosophy for day to day plant operations , in this connection our management team trying to reduce the unit wise water consumptions and reuse the water after treatment in the same or other unit. The Inventorization of solid waste is :
<table>
<tr><th rowspan="2">Sr. No</th><th rowspan="2" colspan="2">Detail</th><th colspan="2">Total Quantity</th></tr>
<tr><th>During the Financial Year (2015-2016)</th><th>During the Financial Year (2016-2017)</th></tr>
<tr><td>A</td><td colspan="2">From Process</td><td>52000 TPA</td><td>50000 TPA</td></tr>
<tr><td>B</td><td colspan="2">From Pollution control facilities</td><td>52000 TPA</td><td>48000 TPA</td></tr>
<tr><td rowspan="3">C</td><td>1</td><td>Quantity recycled or re-utilized within the unit</td><td>67800 TPA</td><td>63300 TPA</td></tr>
<tr><td>2</td><td>Sold</td><td>3100 TPA</td><td>2700 TPA</td></tr>
<tr><td>3</td><td>Disposed</td><td>16100 TPA</td><td>12000 TPA</td></tr>
</table></td></tr>
<tr><td>x)</td><td>All the fly ash be utilized as per Fly Ash Notification, 1999 as amended in 2003.</td><td>• EC for Sponge Iron Plant Unit {Capacity 6, 00,000 TPA (DRI Kilns-10x100 TPD & 3x350 TPD) along with AFBC, CFBC and upcoming 1 x 320 m^3 MBF got transferred by MoEF, New Delhi vide File No: J-11011/227/2007-I A II (I) ; dated 6th January 2017 in the name of M/s Orissa Metaliks Private</td></tr>
</table>

<table>
<tr><td></td><td></td><td>Limitcd . No Fly ash is generated as on date from the current operational unit.</td></tr>
<tr><td>xi)</td><td>As proposed green belt shall be developed in 33% area within and around the plan premises as per the CPCB guidelines in consultation with DFO.</td><td>

In 2016 to 2017, planted 19,000 pieces plant / seedlings
In this year (2017-2018), Management has proposed to plant around 20,000 seedlings for Green Belt development around plant periphery.
We are very much hopeful that a very good green belt shall be developed in and around the factory for preventive the Air pollution, Soil conservation etc.

<table>
<tr><th>Sr. No.</th><th>Year</th><th>No of Seedling /Plantation done</th><th>Area</th><th>Survival Rate (Avg.)</th></tr>
<tr><td>1</td><td>2015-16</td><td>20,000</td><td rowspan="3">Plant Boundary; Road Side; Railway Sitting area ; Administrative & Canteen Area and Stock Yard</td><td>50 %</td></tr>
<tr><td>2</td><td>2016-17</td><td>19,000</td><td>68%</td></tr>
<tr><td>3</td><td>2017-18</td><td>20,000</td><td>----</td></tr>
</table>
The detail about the plantation done for the financial year 2016-2017 is enclosed as Annexure-V.
</td></tr>
<tr><td>xii)</td><td>All the recommendations made in the Charter on corporate Responsibility to Environment Protection (CREP) for the Steel plants shall be implemented.</td><td>

Complied (through continual improvement) in time bound frame

CREP Report enclosed as Annexure-VI.
</td></tr>
<tr><td>xiii)</td><td>DRI kiln should be provided with waste heat recovery boiler (WHRB) to make use of flue gases generated during the process.</td><td>EC for Sponge Iron Plant Unit {Capacity 6, 00,000 TPA (DRI Kilns-10x100 TPD & 3x350 TPD) along with AFBC, CFBC and upcoming 1 x 320 m^3 MBF got transferred by MoEF, New Delhi vide File No: J-11011/227/2007-I A II (I) ; dated 6th January 2017 in the name of M/s Orissa Metaliks Private Limited . No Fly ash is generated as on date from the current operational unit.</td></tr>
<tr><td>xiv)</td><td>All the char from DRI plant should be utilized in AFBC boiler of power plant and no char should be disposed off anywhere else.</td><td>EC for Sponge Iron Plant Unit {Capacity 6, 00,000 TPA (DRI Kilns-10x100 TPD & 3x350 TPD) along with AFBC, CFBC and upcoming 1 x 320 m^3 MBF got transferred by MoEF, New Delhi vide File No: J-11011/227/2007-I A II (I) ; dated 6th January 2017 in the name of M/s Orissa Metaliks Private Limited . No Fly ash is generated as on date from the current operational unit.</td></tr>
<tr><td>xv)</td><td>All the slag generated from the blast furnace should be granulated and used cement plants.</td><td>

Blast Furnace Slag from current operational 1 x 215 m^3 is used in own Cement Grinding unit at Jhargram under the M/s Rashmi cement Limited which is around 30 KM away from the RML project site .

</td></tr>
</table>

A.	General Conditions :	Comments:
i)	The project authorities must strictly adhere to the stipulation made by the West Bengal State Pollution Control Board and the State Government.	• Adequate measure has been taken for pollution control and we are compiling with all condition issues by Central Pollution Control Board and State Pollution Control Board. Reports of Monitoring and compliance are submitted to Ministry, at regional office, Bhubaneswar on regular basis.
ii)	No further expansion or modifications in the plant shall be carried but without prior approval of the Ministry of Environment and Forests.	• Assured to comply
iii)	The Gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19th 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.	• All the necessary measures have been adopted for preventing the gaseous emission on priority basis. The load mass based standards for the financial year 2015-2016 is submitted in prescribed format with Environmental Statement to WBPCB, vide letter ref. no. **03 / RML/ENV _Statement / 2015-2016.** • **For the financial year 2017-2018 the** Environmental Statement to WBPCB will be submitted as per E (P) A Act.
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 PM10, 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 its Regional Office at Bhubaneswar and the SPCB/CPCB once in six months.	• Ambient air quality monitoring is carried out on quarterly basis for the relevant parameters as specified in the environment clearance i.e. PM10, PM2.5, SO_2, and NOx. The reports are regularly being submitted to MOEF and WBPCB. • Permanent AAQM stations are setup for in house monitoring.
v)	Industrial wastewater shall be properly collected, treated so as to conform to the standards prescribed under GSR 422 (E) dated 19th May, 1993 and 31st December, 1993 or as amended form time to time. The treated wastewater shall be utilized for plantation purpose.	• All types of the waste water are treated and thereafter being re-used in cooling, dust suppression, Green Belt Development and no waste water is discharged outside the project boundary. The detail about the Effluent, Leachate & Ground water sampling Report is enclosed as **Annexure-VII.**
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 acoustic hoods. Silencers, enclosures etc. on all sources of	• Ambient & Work Zone Noise monitoring Analysis (inside the plant in different units) reports are attached as **Annexure – VIII** for your ready reference.

	noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and dBA (night-time).	
vii)	Occupational health surveillance of then workers shall be done on a regular basis and records maintained as per the Factories Act.	• Occupational health surveillance of the workers is periodically accessed and records are being maintained as per the Factories Act 1948. Detail enclosed as **Annexure-IX.**
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.	• Yes, we have total 1, 00,000 KL (approx.) rain water harvesting ponds in our plant premises and harvested water are being used in our daily process as well as housekeeping purpose. Also we are recycling the water and after that reusing the water for industrial cooling or other purpose. And our expertise technical team always tries to find out the possibility for optimum use of the ground water by adopting the Reduce – Recycling – Reuse techniques (3 R's) within our existing facilities.
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.	• The environmental protection measures and safeguards recommended in the EIA / EMP report are adequately followed at the various stages of the project requirement. • The detail about the cost incurred for carrying ESR for financial year 2016-2017 is enclosed as **Annexure-X**.
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 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.	• Adequate funds have been deployed in CAPEX and OPEX and an itemised action plan has been drawn for implementing the stipulated conditions. An audit and review program is also in place to verify the implementation status and progress. The detail is: **Recurring Cost Incurred On Environmental Safeguard for 2016-17** Year / Particulars / Narration / Amount 2016-2017 / Green Belt Development / Maintenance, labour cost etc. / 3,80,370.00 2016-2017 / House Keeping / Labour charges, Drainage Cleaning and other materials / 60,06,000.00 2016-2017 / Analysis & Monitoring of Environmental Parameters / Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis / 10,18,300.00 2016-2017 / O & M on A.P.C. Devices / Operation & Maintenance cost, Electricity consumption etc. on A.P.C. Device installed / 4,80,00,000 TOTAL / 5,55,25,670.00
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 also be put	• Already Being Complied

	on the web site of the company by the proponent.	
xii)	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their 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 PM0,SO2,NOx)ambient levels as well as well as stack emissions) or critical sectoral parameters indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.	• Complied in regular basis
xiii)	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environment 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 and the SPCB. The Regional Office of this Ministry at Bhubaneswar/CPCB/SPCB shall monitor the stipulated conditions.	• Being Compiled with. Six monthly compliance reports are being submitted in regular basis. This report is being submitted as compliance to this point
xiv)	The environment statement for each financial year ending 31st 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 and shall also be sent to the respective Regional Office of the MOEF at Bhubaneswar by e-mail.	• Being Compiled With.
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 the SPCB and may also be seen at Website of the Ministry of Environment and Forests at http:/envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in	• Already being compiled

	two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwards to the Regional office at Bhubaneswar.	
xvi)	Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.	• Noted Private Company , no finance is needed from outside

.....

RASHMI METALIKS LTD.

Annexure-I

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak,
Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602. Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metaliks Ltd.	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, Kharagpur, Paschim Medinipur	
3. Category & Type		Red/Liquid Metal & Pig Iron Mfg. Unit	
4. Sampling Date		16/03/2017	
5. Duration of Sampling		33 min.	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		50.80	
8. Cross section of Stack at sampling point(m²)		5.3114	
9. Stack connected to		Blast Furnace.	
10. Emission due to(Furnace /Boiler)		Combustion of B.F. Gas	
11. Average operational hours of boiler/ furnace (per month)		720 Hrs/month	
12. APC System(if any)		Gas Cleaning Plant	
13. Working load of source (MT/hr)		15 MT/hr	
14. Fuel used		B.F. Gas	
15. Rated Fuel consumption (Kg or l/hr)		18000 Nm³/hr	
16.Working Fuel consumption (Kg or l/hr)		10000 Nm³/hr	
17.Nature of Furnace /Boiler		-	
18.Flue gas Temp. (°C)		145.0	
19. Flue gas velocity	9.27 m/sec.	20. Volume of flue gas drawn in m^3	1.023
21.Corrected flue gas volume(Nm3)	0.9876	22. Percentage CO_2	9.0%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.4094	25.Final wt of thimble (gm)	1.4193
26. Wt. of PM (mg)	9.9	27. Particulate matter (mg/Nm³)	10.02
28. Barometric Pressure Head	756 mm of Hg.	29. Diameter of the nozzle	9.525 mm
30.Others:-		31.Thimble No.	GF-163
32. Sampled by:		Sri R. Chakraborty, AEE, H.R.O.	

Junior Scientist

Subhajit Chowdhury 20/3/17
Scientist & In-Charge

SCIENTIST & IN-CHARGE
Haldia Regional Laboratory
W.B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Copy to: 1. Chief Engineer, O & E,WBPCB.
2. Sr. Environmental Engineer, Camac Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies)

RASHMI METALIKS LTD. KOL

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block-3, 40 flats complex, Priyambada Housing Estate, P.O. Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602. Phone: (03224)- 274847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metalliks Ltd.	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, Kharagpur, Paschim Medinipur	
3. Category & Type		Red	
4. Sampling Date		10.03.2017	
5. Duration of Sampling		31 min.	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		40.0	
8. Cross section of Stack at sampling point(m^2)		4.9107	
9. Stack connected to		Sinter Plant Tall ESP	
10. Emission due to(Furnace /Boiler)		Sinter Cooling	
11. Average operational hours of boiler/ furnace (per month)		720 Hrs/month	
12. APC System(if any)		ESP	
13. Working load of source (MT/hr)		50 MT/hr	
14. Fuel used		-	
15. Rated Fuel consumption (Kg or l/hr)		-	
16. Working Fuel consumption (Kg or l/hr)		-	
17. Name of Furnace /Boiler		-	
18. Flue gas Temp. (°C)		80.0	
19. Flue gas velocity	8.55 m/sec	20. Volume of Flue gas drawn in lit (m^3)	1.023
21. Corrected flue gas volume(Nm3)	0.9811	22. Percentage CO_2	6.2%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.4224	25. Final wt of thimble (gm)	1.4439
26. Wt. of PM (mg)	21.5	27. Particulate matter (mg/Nm^3)	21.91
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	9.525 mm
30. Others:-	-	31. Thimble No.	GF-164
32. Sampled by:		Sri R. Chakraborty, AEE, H.R.O.	

Junior Scientist

Subhajit Choudhury 28/03/17
Scientist & In-Charge

SCIENTIST & IN-CHARGE
Haldia Regional Laboratory
W.B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Copy to: 1. Chief Engineer, O & E, WBPCB.
2. Sr. Environmental Engineer, Canal Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies) Dept. of Environment, Govt. of W.B.

RASHMI METALIKS

WEST BENGAL POLLUTION CONTROL BOARD
HALDIA REGIONAL LABORATORY
Block S, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602, Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metaliks Ltd.	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, Kharagpur, Paschim Medinipur	
3. Category & Type		Red	
4. Sampling Date		10/03/2017	
5. Duration of Sampling		33 min.	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		50.0	
8. Cross section of Stack at sampling point(m²)		1.9107	
9. Stack connected to		Sinter Plant Head ESP	
10. Emission due to(Furnace / Boiler)		Sinter Process	
11. Average operational hours of boiler/ furnace (per month)		720 Hrs/month	
12. APC System(if any)		ESP	
13. Working load of source (MT/hr)		35 TPH	
14. Fuel used		B.F. Gas	
15. Rated Fuel consumption (Kg or Ltr)		-	
16.Working Fuel consumption (Kg or Ltr)		3800 Nm³/hr	
17.Nature of Furnace /Boiler		-	
18.Flue gas Temp. (°C)		130.0	
19. Flue gas velocity	8.99 m/sec.	20. Volume of Flue gas drawn in lit (m^3)	1.023
21.Corrected flue gas volume(Nm3)	0.9779	22. Percentage CO_2	7.0%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.4809	25. Final wt of thimble (gm)	1.5106
26. Wt of PM (mg)	29.7	27. Particulate matter (mg Nm^3)	30.37
28. Barometric Pressure Head	756 mm of Hg	29. Diameter of the nozzle	9.525 mm
30.Others:-		31.Thimble No.	GF-165
32. Sampled by:		Sri R. Chakraborty, AEE, H.R.O.	

Subhajit Choudhury 20/3/17
Junior Scientist

Scientist & In-Charge

SCIENTIST & IN-CHARGE
Haldia Regional Laboratory
W.B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Copy to: 1. Chief Engineer, O & E, WBPCB.
2. Sr. Environmental Engineer, Camac Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies)

RASHMI METALIKS LTD. KOL.

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602, Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metallics Ltd.	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, Kharagpur, Paschim Medinipur	
3. Category & Type		Red	
4. Sampling Date		10/03/2017	
5. Duration of Sampling		28 min.	
6. Name of Laboratory		M/s. Indigoeve Consultant India	
7. Height of Stack from ground (m)		30.0	
8. Cross section of Stack at sampling point(m^2)		1.1314	
9. Stack connected to		Coal Breeze	
10. Emission due to(Furnace /Boiler)		Coke Crushing	
11. Average operational hours of boiler /furnace (per month)		490 Hrs /month	
12. APC System(if any)		Bag Filter	
13. Working load of source (MT/hr)		3.2 Ton/hr	
14. Fuel used		-	
15. Rated Fuel consumption (Kg or l/hr)		-	
16. Working Fuel consumption (Kg or l/hr)		-	
17. Nature of Furnace /Boiler		-	
18. Flue gas Temp. (°C)		34.0	
19. Flue gas velocity	8.30 m/sec.	20. Volume of Flue gas drawn in lit (m^3)	1.036
21. Corrected flue gas volume(Nm3)	0.9903	22. Percentage CO_2	<0.2%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.5379	25. Final wt of thimble (gm)	1.5437
26. Wt. of PM (mg)	5.8	27. Particulate matter (mg/Nm^3)	5.86
28. Barometric Pressure Head	756 mm of Hg.	29. Diameter of the nozzle	9.525 mm
30. Others:-	-	31. Thimble No.	GP-166
32. Sampled by:		Sri R. Chakraborty, AEE, H.R.O.	

Junior Scientist

Subhajit Chaudhury 25/03/17

Scientist & In-Charge

SCIENTIST & IN-CHARGE
Haldia Regional Laboratory
W.B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Copy to: 1. Chief Engineer, O & E,WBPCB.
2. Sr. Environmental Engineer, Camac Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies)

RASHMI METALIKS LTD.

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602, Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metalliks Ltd.	
2. Address		Vill- Gokulpur, P.O.- Shyamsaipur, Kharagpur, Paschim Medinipur	
3. Category & Type		Red	
4. Sampling Date		10/03/2017	
5. Duration of Sampling		25 min.	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		30.0	
8. Cross section of Stack at sampling point(m^2)		1.1314	
9. Stack connected to		Flux Crushing & Screening	
10. Emission due to(Furnace /Boiler)		Lime Stone & Dolomite Crushing & Screening	
11. Average operational hours of boiler/ furnace (per month)		480 Hrs/month	
12. APC System(if any)		Bag Filter	
13. Working load of source (MT/hr)		5.2 Ton/hr	
14. Fuel used		-	
15. Rated Fuel consumption (Kg or l/hr)		-	
16.Working Fuel consumption (Kg or l/hr)		-	
17.Nature of Furnace /Boiler		-	
18.Flue gas Temp. (°C)		46.0	
19. Flue gas velocity	9.52 m/sec.	20. Volume of Flue gas drawn in lit (m^3)	1.025
21.Corrected flue gas volume(Nm3)	0.9798	22. Percentage CO_2	<0.2%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.4768	25.Final wt of thimble (gm)	1.5329
26. Wt. of PM (mg)	56.1	27. Particulate matter (mg/Nm^3)	57.25
28. Barometric Pressure /Head	756 mm of Hg.	29. Diameter of the nozzle	9.525 mm
30.Others:-	-	31.Thimble No	GF-167
32. Sampled by:		Sri R. Chakraborty, AEE, H.R.O.	

Junior Scientist

Mukhopadhyay 23/03/17

Scientist & In-charge

SCIENTIST & IN-CHARGE
Haldia Regional Laboratory
W.B. Pollution Control Board
Dept. of Environment, Govt. of W.B.

Copy to: 1. Chief Engineer, O & E,WBPCB.
2. Sr. Environmental Engineer, Canal Street, WBPCB.
3. Environmental Engineer, H.R.O. WBPCB (two copies)

RASHMI METALIKS LTD. KOL

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602. Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metaliks Limited	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, P.S.- KGP (I), Paschim Medinipur-721304	
3. Category & Type		Red	
4. Sampling Date		23/08/2016	
5. Duration of Sampling		54 min	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		35.96	
8. Cross section of Stack at sampling point(m^2)		1.131	
9. Stack connected to		Rolling Mill Re Heating Furnace	
10. Emission due to(Furnace /Boiler)		Combustion of Producer Gas	
11. Average operational hours of boiler/ furnace (per month)		720 Hrs.	
12. APC System(if any)		Nil	
13. Working load of source (MT/hr)		25 MT/Hr	
14. Fuel used		Producer Gas	
15. Rated Fuel consumption (Kg or l/hr)		-	
16.Working Fuel consumption (Kg or l/hr)		107 Nm^3	
17.Nature of Furnace /Boiler		-	
18.Flue gas Temp. (^{0}C)		261.0	
19. Flue gas velocity	13.12 m/sec.	20. Volume of Flue gas drawn in 3it (m^3)	1.02
21.Corrected flue gas volume(Nm3)	0.9384	22. Percentage CO_2	7.8%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.6007	25.Final wt of thimble (gm)	1.6243
26. Wt. of PM (mg)	23.6	27. Particulate matter (mg/Nm^3)	25.15
28. Barometric Pressure Head	748 mm of Hg.	29. Diameter of the nozzle	9.525 mm
30.Others:-		31.Thimble No.	GF-825
32. Sampled by:		Sri S. Dutta, AEE , H.R.O.	

Junior Scientist

Subhajit Choudhury 30/08/2016
Scientist & In-Charge

Copy to: 1. Chief Engineer, O & E,WBPCB.
2. Sr. Environmental Engineer, Camac Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies)

Haldia Regional Laboratory
W.B. Pollution Control Board

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E.), Pin-721 602, Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metaliks Limited	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, P.S.- KGP (J), Paschim Medinipur-721304	
3. Category & Type		Red	
4. Sampling Date		23/08/2016	
5. Dutration of Sampling		33 min.	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		35.0	
8. Cross section of Stack at sampling point(m^2)		0.7857	
9. Stack connected to		Hood Over Induction Furnace (20 MT)-3 Nos.(attached with a common stack)	
10. Emission due to(Furnace /Boiler)		Melting of Pig & Sponge Iron	
11. Average operational hours of boiler/ furnace (per month)		720 Hrs.	
12. APC System(if any)		Bag Filter	
13. Working load of source (MT/hr)		20 MT/hr (each)	
14. Fuel used		Electricity	
15. Rated Fuel consumption (Kg or l/hr)		-	
16.Working Fuel consumption (Kg or l/hr)		-	
17.Nature of Furnace /Boiler		-	
18.Flue gas Temp. (^{0}C)		38.0	
19. Flue gas velocity	7.52 m/sec.	20. Volume of Flue gas drawn in lit (m^3)	1.023
21.Corrected flue gas volume(Nm3)	0.9442	22. Percentage CO_2	1.6%
23. To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.6321	25.Final wt of thimble (gm)	1.6347
26. Wt. of PM (mg)	2.6	27. Particulate matter (mg/Nm^3)	2.75
28. Barometric Pressure Head	748 mm of Hg.	29. Diameter of the nozzle	9.525 mm
30.Others:-		31.Thimble No.	GF-826
32. Sampled by		Sri S. Dutta, AEE, H.R.O.	

Yubajit Choudhury 30/08/2016

Junior Scientist

Scientist & In-Charge

Copy to: 1. Chief Engineer, O & E,WBPCB.
2. Sr. Environmental Engineer, Canal Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies)

RASHMI METALIKS LTD. KOL.

WEST BENGAL POLLUTION CONTROL BOARD

HALDIA REGIONAL LABORATORY

Block 5, 40 flats complex, Priyambada Housing Estate, P.O.-Khanjanchak, Durgachak, Haldia, Dist-Midnapore (E), Pin-721 602. Phone: (03224)- 276847

Analysis Report of Gaseous Emission

Analysis Done at Haldia Regional Laboratory :

1. Name of Industry		M/s Rashmi Metaliks Limited	
2. Address		Vill- Gokulpur, P.O.- Shyamraipur, P.S.- KGP (H), Paschim Medinipur- 721304	
3. Category & Type		Red	
4. Sampling Date		23/08/2016	
5. Duration of Sampling		35 min.	
6. Name of Laboratory		M/s. Indicative Consultant India	
7. Height of Stack from ground (m)		30.0	
8. Cross section of Stack at sampling point(m^2)		0.2828	
9. Stack connected to		Hood Over Induction Furnace (20 MT)-2 Nos.(attached with a common stack)	
10. Emission due to(Furnace /Boiler)		Melting of Pig & Sponge Iron	
11. Average operational hours of boiler/ furnace (per month)		720 Hrs.	
12. APC System(if any)		Bag Filter	
13. Working load of source (MT/hr)		20 MT/hr(each)	
14. Fuel used		Electricity	
15. Rated Fuel consumption (Kg or l/hr)		-	
16.Working Fuel consumption (Kg or l/hr)		-	
17.Nature of Furnace /Boiler		-	
18.Flue gas Temp. (^{0}C)		34.0	
19. Flue gas velocity	7.09 m/sec	20. Volume of Flue gas drawn in lit (m^3)	1.015
21.Corrected flue gas volume(Nm3)	0.9369	22. Percentage CO_2	1.2%
23.To be compensated at (%, if required)		-	
24. Initial wt of thimble (gm)	1.6233	25.Final wt of thimble (gm)	1.6310
26. Wt. of PM (mg)	8.7	27. Particulate matter (mg/Nm^3)	9.28
28. Barometric Pressure Head	748 mm of Hg.	29. Diameter of the nozzle	9.525 mm
30.Others:-		31.Thimble No.	GF-827
32. Sampled by:		Sri S. Dutta, AEE , H.R.O.	

Subhajit Chowdhury 30/08/2016

Junior Scientist

Scientist & In-Charge

Copy to: 1. Chief Engineer, O & E,WBPCB.
2. Sr. Environmental Engineer, Camac Street, WBPCB.
3. Environmental Engineer, H.R.O., WBPCB (two copies)

Haldia Regional Laboratory
West Bengal Pollution Control Board

RASHMI METALIKS LTD.

ENVIROCHECK

Environmental Laboratory
159 & 160, Rastraguru Avenue, Kolkata-700 028
Phone : 2529-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envicheck@cal2.vsnl.net.in

STACK GAS ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/I/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017

A. GENERAL INFORMATION ABOUT STACK

1.	Stack attached to	:	D. G. Set – 500 KVA
2.	Shape of Stack	:	Circular
3.	Material of Construction	:	M.S.
4.	Height of Stack from G. L. (mtr.)	:	6.096
5.	Stack I.D. at sampling point (mtr.)	:	0.3
6.	Height of sampling port from G. L. (mtr.)	:	Final Exhaust Point
7.	Emission due to	:	Combustion of H.S.D

(a) Type of Fuel Used : H.S.D (b) Fuel Consumption : 50 litr./hr.

Cal Value (K-Cal/kg) = 10800	Ash Content (% by Wt.) 0.01	Sulphur Content (% by Wt.) – 0.2

8.(a)	Permanent ladder & platform	No	(b) Pollution Control Device	:	Nil

B. RESULTS OF SAMPLING

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Flue Gas Temperature (°C)	IS : 11255 (Part 1)	:	167.0
2.	Barometric Pressure (mm of Hg.)	--	:	755.0
3.	Velocity of Gas flow (m/s)	IS : 11255 (Part 3)	:	14.41
4.	Quantity of Gas flow ($Nm^3/hr.$)	IS : 11255 (Part 3)	:	2463.97
5.	Concentration of SO_2 (mg/Nm^3)	IS 11255 (Part 2)	:	62.18
6.	Concentration of CO_2 % (v/v)	IS 13270	:	7.4
7.	Concentration of CO %(v/v)	IS 13270	:	<1.0
8.	Concentration of Particulate Matter (mg/Nm^3)	IS 11255 (Part – 1) & ASTM D 3685/D 3685M	:	23.43

Remarks : *All the information under column A are supplied by the respective industry.*

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD. KOL

Annexure-II

ENVIROCHECK

Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2329-9141
E-mail : envicheck@cal2.vsnl.net.in

AMBIENT AIR ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017 – 09.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/II/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017
7.	Particular of Plant	:	Integrated Steel Plant

A] GENERAL INFORMATION

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

B] METEOROLOGICAL INFORMATION

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

C] RESULTS

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Concentration of $PM_{2.5}$ ($\mu g/m^3$)	USEPA 1997a, 40 CFR Part 50, Appendix L	:	51.80
2.	Concentration of PM_{10} ($\mu g/m^3$)	IS 5182 (Part 23)	:	87.10
3.	Concentration of SO_2 ($\mu g/m^3$)	IS 5182 (Part 2) & ASTM D 2914-01	:	12.52
4.	Concentration of NO_x ($\mu g/m^3$)	IS 5182 (Part 6) & ASTM D 1607-91	:	35.01
5.	Concentration of CO (mg/m^3)	IS 5182 (Part 10) & ASTM D 3162-94	:	1.26
6.	Concentration of Pb ($\mu g/m^3$)	IS 5182 (Part 22) & ASTM D 4185-06	:	<0.01
7.	Benzo (a) Pyrene (BaP) (ng/m^3)	IS 5182 (Part 12) 2004 & ASTM D 6209-98	:	<0.36
8.	Benzene (C_6H_6) ($\mu g/m^3$)	IS 5182 (Part 11) 2006 & ASTM D 5466-01	:	<0.74
9.	Ozone (O_3) ($\mu g/m^3$)	IS 5182 (Part-IX)	:	<10.0
10.	Ammonia (NH_3) ($\mu g/m^3$)	NIOSH Manual of Analytical Method, 4th Edition 1994, Method 6015	:	<150.0
11.	Nickel (Ni) (ng/m^3)	IS 5182 (Part-22) 2004 & ASTM D 4185-06	:	<0.02
12.	Arsenic (As) (ng/m^3)	IS 5182 (Part 22) 2004 & ASTM D 4185-06	:	<0.01

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD.

ENVIROCHECK

Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envicheck@cal2.vsnl.net.in

AMBIENT AIR ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017 – 09.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/III/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017
7.	Particular of Plant	:	Integrated Steel Plant

A] GENERAL INFORMATION

1.	Location of Sampling	:	At Malancha Town (4 km. from plant)
2.	Duration of Sampling	:	24 hrs. (09:30 a.m. – 09:30 a.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	:	29.0
2.	Average Relative Humidity (%)	:	62.0
3.	Barometric Pressure (mm of Hg)	:	735.0
4.	Smell or Odour	:	No Remarkable Smell
5.	Weather Condition	:	Clear sky

C] RESULTS

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Concentration of $PM_{2.5}$ (µg/m³)	USEPA 1997a, 40 CFR Part 50, Appendix L	:	51.48
2.	Concentration of PM_{10} (µg/m³)	IS 5182 (Part 23)	:	82.50
3.	Concentration of SO_2 (µg/m³)	IS 5182 (Part 2) & ASTM D 2914	:	9.50
4.	Concentration of NO_x (µg/m³)	IS 5182 (Part 6) & ASTM D 1607	:	29.95

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD. KOL.

ENVIROCHECK

Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envicheck@cal2.vsnl.net.in

AMBIENT AIR ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017 – 09.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/IV/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017
7.	Particular of Plant	:	Integrated Steel Plant

A] GENERAL INFORMATION

1.	Location of Sampling	:	Gokulpur (Village) (1.5 m. from plant)
2.	Duration of Sampling	:	24 hrs. (10:00 a.m. – 10:00 a.m.)

B] METEOROLOGICAL INFORMATION

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

C] RESULTS

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Concentration of $PM_{2.5}$ (µg/m³)	USEPA 1997a, 40 CFR Part 50, Appendix L	:	51.44
2.	Concentration of PM_{10} (µg/m³)	IS 5182 (Part 23)	:	90.88
3.	Concentration of SO_2 (µg/m³)	IS 5182 (Part 2) & ASTM D 2914-01	:	6.49
4.	Concentration of NO_x (µg/m³)	IS 5182 (Part 6) & ASTM D 1607-91	:	25.03

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD.

ENVIROCHECK

Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envicheck@cal2.vsnl.net.in

AMBIENT AIR ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017 – 09.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/V/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017
7.	Particular of Plant	:	Integrated Steel Plant

A] GENERAL INFORMATION

1.	Location of Sampling	:	Kalaikunda Village
2.	Duration of Sampling	:	24 hrs. (10:30 a.m. – 10:30 a.m.)

B] METEOROLOGICAL INFORMATION

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

C] RESULTS

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Concentration of $PM_{2.5}$ (µg/m³)	USEPA 1997a, 40 CFR Part 50, Appendix L	:	49.79
2.	Concentration of PM_{10} (µg/m³)	IS 5182 (Part 23)	:	87.50
3.	Concentration of SO_2 (µg/m³)	IS 5182 (Part 2) & ASTM D 2914-01	:	5.00
4.	Concentration of NO_x (µg/m³)	IS 5182 (Part 6) & ASTM D 1607-91	:	28.49

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD. KOL.

Annexure-III

F. No. J-11011/604/2010-IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change

Indira Paryavaran Bhawan
Jor Bagh Road, Ali Ganj,
New Delhi – 110003
E-mail: satish.garkoti@nic.in
Tel: 011: 24695316

Dated: 3rd/6th January, 2017

To

The Director
M/s Orissa Metaliks Pvt Ltd.
1, Garstin Place
'Orbit', 3rd Floor, Room No 3B
Kolkata – 700 001

Subject: **Expansion of steel plant (0.5 MTPA MBF & SMS) by adding 1.5 MTPA Beneficiation cum Pellet Plant to produce 1.2 MTPA Pellet (2x0.6 MTPA) with Producer Gas Plant (75,000 Nm^3/hr) at Shyamraipur, Gokulpur, Kharagpur, District Paschim Medinipur, West Bengal by Rashmi Metaliks Ltd – Transfer of Environmental Clearance from M/s Rashmi Metaliks Limited to M/s Orissa Metaliks Private Limited regarding.**

Sir,

This has reference to your letter No. OMPL/EC/Transfer-Pellet/16-17/13 dated 21st November, 2016 regarding transfer of environmental clearance from M/s Rashmi Metaliks Limited to M/s Orissa Metaliks Private Limited.

2.0 It has been noted that the above mentioned project was accorded environmental clearance by the Ministry vide letter No. J-11011/604/2010-IA.II(I) dated 1.06.2012. The proponent has informed that 1.5 MTPA beneficiation cum pellet plant to produce 1.2 MTPA pellets (2x0.6 MTPA) with producer gas plant (75000Nm^3/hr) of M/s Rashmi Metaliks Private Limited has been transferred to M/s Orissa Metaliks Private Limited by virtue of order of Hon'ble Culcutta High Court for demerge of captioned unit.

3.0 No objection certificate/affidavit from M/s Rashmi Metaliks Limited in a non-judicial stamp paper for transferring the environmental clearance issued from M/s Rashmi Metaliks Limited to M/s Orissa Metaliks Private Limited and undertaking/affidavit from M/s Orissa Metaliks Private Limited in a non-judicial stamp paper stating to comply with the environmental safeguards mentioned in the environmental clearance letters issued to M/s Rashmi Metaliks Limited have been received.

4.0 After taking into consideration the aforesaid facts, the Ministry has decided to transfer the environmental clearance letter No. J-11011/604/2010-IA-II(I) dated 1.06.2012 from M/s Rashmi Metaliks Limited to ,M/s Orissa Metaliks Private Limited. The transfer of environmental clearance No. J-11011/604/2010-IA-II(I) dated 1.06.2012 is subject to transfer of all financial, legal (including Civil and Criminal) and other liabilities to M/s Orissa Metaliks Private Limited.

5.0 It is requested to obtain 'Consent to Establish' and 'Consent to Operate' from the concerned State Pollution Control Board in the name of M/s Orissa Metaliks Private Limited.

6.0 M/s Orissa Metaliks Private Limited shall comply with the all specific and general conditions stipulated in the environmental clearance letter No. J-11011/604/2010-IA-II(I) dated 1.06.2012.

7.0 In case, there is a change in the scope of the project, fresh environmental clearance shall be obtained.

This issues with the approval of the Competent Authority.

(Dr. Satish C. Garkoti)
Scientist 'F'

Copy to:

1. The Secretary, Department of Environment, Government of West Bengal.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi, 110 032.
3. The Chairman, West Bengal State Pollution Control Board, Paribesh Bhawan, Building No. 10-A, Block- LA, Sector 3, Salt Lake City, Kolkata 700 091.
4. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office (EZ), A/3, Chandersekharpur, Bhubaneswar 751023.
5. Guard File / Record File/Monitoring file.

Annexure-IV

ENVIROCHECK

Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envcheck@cal2.vsnl.net.in

FUGITIVE AIR ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/VI/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017
7.	Particular of Plant	:	Integrated Steel Plant

A) GENERAL INFORMATION

1.	Location of Sampling	:	Sinter Unit
2.	Duration of Sampling	:	08 hrs. (09:00 a.m. – 05:00 p.m.)

B) METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	:	32.0
2.	Average Relative Humidity (%)	:	78.0
3.	Barometric Pressure (mm of Hg)	:	755.0
4.	Smell or Odour	:	No Remarkable Smell

C) RESULTS

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Concentration of SPM (μg/m³)	IS 5182 (Part 4) & ASTM D 4096	:	234.48

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD.

ENVIROCHECK
Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envcheck@cal2.vsnl.net.in

FUGITIVE AIR ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Vill. – Gokulpur, P.O. – Shyamraipur, P.S. – Kahragpur (Local), Paschim Midnapore
3.	Date of sampling	:	08.03.2017
4.	Report No.	:	19A/EC/March/TR(A)/VII/16-17
5.	Analysis completed on	:	11.03.2017
6.	Reporting Date	:	15.03.2017
7.	Particular of Plant	:	Integrated Steel Plant

A] GENERAL INFORMATION

1.	Location of Sampling	:	Raw Materials Handling Plant (3)
2.	Duration of Sampling	:	08 hrs. (09:30 a.m. – 05:30 p.m.)

B] METEOROLOGICAL INFORMATION

1.	Average Temperature (°C)	:	31.2
2.	Average Relative Humidity (%)	:	72.0
3.	Barometric Pressure (mm of Hg)	:	755.0
4.	Smell or Odour	:	No Remarkable Smell

C] RESULTS

SL. NO.	PARAMETERS	METHOD NO.		RESULTS
1.	Concentration of SPM (μg/m³)	IS 5182 (Part 4) & ASTM D 4096	:	506.54

Date : 15.03.2017

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

Annexure-V

LIST OF PLANTATION DONE AND FINALCIAL BREAKUP

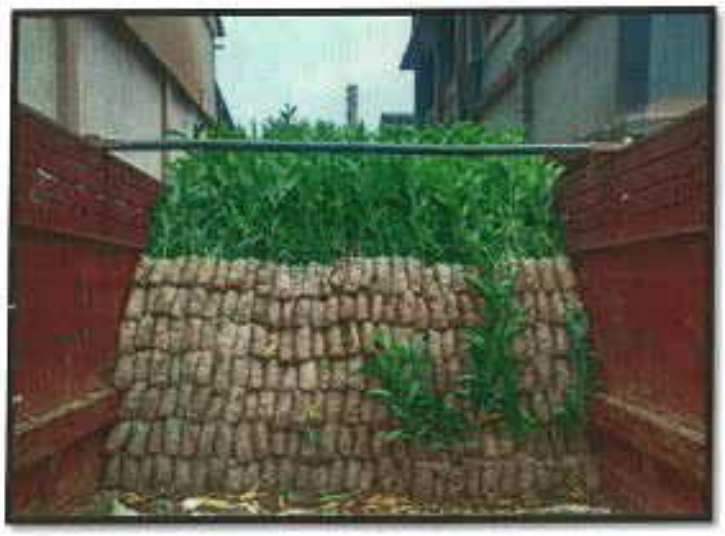
Sl. No.	Year	No of seedling / Plantation done	Area	List of Plants/ seeds	Quantity of Plants/ seeds	Rate per Plants/ seeds (Rs.)	Total cost of Plants/ seeds (Rs.)	Green Belt Development (Maintenance, labour cost etc.)	Total cost of Plantation & Green Belt Development (with Maintenance, labour cost etc.)	Survival Rate (Avg.)
1	2016-17	19,000	Plant Boundary, Rail Side, and Railway sitting Area, Administrative & Canteen Area and Stock Yards.	1.Akashmoni	7,500	12	90,000	9,13,630	13,00,000	68%
				2.Bakul	800	15	12,000			
				3. Mehagini	500	70	35,000			
				4. Banyan	300	15	4,500			
				5. Chhatim	150	12	1,800			
				6. Siris	250	22	5,500			
				7. Radhachura	1,500	17	25,500			
				8. Kadam	1,000	18	18,000			
				9. Devdaru	50	75	3,750			
				10.Sal	100	45	4,500			
				11. Arjun	1,500	27	40,500			
				12.Eucalyptas	3,000	12	36,000			
				13.Mango	1,000	75	75,000			
				14. Kathal	10	30	300			
				15. Jarul	500	15	7,500			
				16. Simul	100	17	1,700			
				17. White Siris	100	16	1,600			
				18. Aswatha	40	18	720			
				19. Neem(seedling)	500		12,500			
				20.Coconut	100	100	10,000			
				TOTAL	**19,000**		**3,86,370**			

ASHMI METALIKS LTD.

Annexure-V

RASHMI GROUP

Green Belt Development Pictures



Annexure-VI

Status of Charter on Corporate Responsibility for Environment protection (CREP) RASHMI GROUP

Serial No.	Action points for Integrated Iron & Steel Industry			Action Plan
1	**Coke Oven Plants**			
	A	To meet the parameters PLD (% leaking colours), PLL (% leaking lids), PLO (% leaking off take), of the notified standards under EPA within three years by December 2005). Industry will submit time bound action plan and PER Chart along with the Bank Guarantee for the implementation or the time.		Not applicable
	B	To rebuild at least 40% of the coke oven batteries in next 10 years (by December 2012).		Not applicable
2	**Steel Melting Shop** Fugitive emissions – To reduce 30% by March 2004 and 100% by March 2008 (including installation of secondary Dedusting facilities).			RML has installed Spark arrestor system and bag filter of sufficient capacity ranging from 10,000-28,000 Nm^3/hr and are connected to metal stack of 35 meter height for better dispersion of pollutant.
3	**Blast Furnace** Direct inject of reducing agents _____ by June 2013.			Sized Coke of high quality with limestone as a reducing agent is being used.
4	**Solid Waste/Hazardous Waste Management**			
	A	Utilization of Steel/Melting shop (SMS)/Blast Furnace (BF) Slag as per the following schedule: • By 2004 – 70% • By 2006 – 80% and • By 2007 – 100%		Slag Utilization The slag generated from the plant are used for road making and land filling (filling of low lying area)
	Hazardous Wastes			
	B	**I**	Charge of tar sludge/ETP sludge to Coke Oven by June 2003.	Not Applicable
		II	Inventorization of the Hazardous waste as per Hazardous Waste (M & H). Rules, 1989 as amended in 2000 and implementation of the Rules by Dec. 2003. (tar sludge, acid sludge, waste Lubricating oil and type fuel falls in the category of Hazardous waste).	Inventorization completed. Used oils and lubricants are sold to CPCB authorized vendors/parties
5	**Water Conservation/Water Pollution**			
	A	To reduce specific water consumption to 5 m^3/t for long products and 8 m^3/t for flat products by December 2005.		As per water Cess submitted the average water consumption is within the prescribed limit
	B	To operate the Co-BP effluent treatment plant efficiently to achieve the notified effluent discharge standards. – by June 2003.		Not Applicable

				in Cement Plant, Mild Scale used again in SMS, Dust from Sinter plant re used in Sinter plant, rejected DI pipe re used in SMS of DIP section, Dolochar used in AFBC Boiler for Power Generation.
	G	To implement rainwater harvesting		RML have total 1, 00,000 KL (approx.) capacity rain water harvesting ponds in plant premises and harvested water are being used in daily process as well as housekeeping purpose.
	H	**Reduction Green House Gases by:**		
		I	Reduction in power consumption	-----
		II	Use of by- products gases for power generation	-----
		III	Promotion of Energy Optimisation technology Including energy/audit	
	I	To set targets for Resource Conservation such as Raw material, energy and water consumption to match International Standards.		Our management has taken up eco- friendly (i.e. 3 R's , Reduce , Recycle & Reuse) philosophy for day to day plant operations , in this connection our management team trying to reduce the unit wise water consumptions and reuse the water after physical treatment in the same unit
	J	Up- gradation in the monitoring and analysis facilities for air and water pollution. Also to impart elaborate training to the manpower so that realistic data is obtained in the environmental monitoring laboratories.		A separate Environment Management Cell is already in operational to manage all the environmental issues. A laboratory has been setup for monitoring and analysis of air and water pollution parameters. The manpower entrusted for environmental monitoring has been imparted training on regular basis.
	K	To Improve overall housekeeping.		To improve the housekeeping, dedicated team of workers, machinery are deployed forregular cleaning of spillage.Cleaning and maintenance of garland drains & storm water drains at regular interval. Apart from this high vacuum road sweeper are used for

Annexure-VII

ENVIROCHECK

Environmental Laboratory
189 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envcheck@cal2.vsnl.net.in

EFFLUENT WATER ANALYSIS REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Gokulpur, P.O. – Shyamraipur, P.S. – Kharagpur, Paschim Midnapore
3.	Report No.	:	Env/645/W/M(iii)/16-17
4.	Date of sampling	:	08.03.2017
5.	Reporting date	:	17.03.2017
6.	Type of sample	:	Industrial Effluent Water (grab)
7.	Collection & preservation of sample	:	APHA 22nd Edition, 1060
8.	Location of sample	:	Near Sinter Plant
9.	Sample collected in presence of	:	Company Representative

	PARAMETERS	TEST METHODS		RESULTS
1.	pH	APHA 22nd Edition, 4500-H+B	:	6.90
2.	Total Suspended Solids (mg./l)	APHA 22nd Edition, 2540 D	:	30.0
3.	Oil and Grease (mg./l)	APHA 22nd Edition, 5520 B/D	:	3.50
4.	COD (mg./l)	APHA 22nd Edition, 5220 B/C/D	:	70.0
5.	BOD [3 days, 27°C] (mg./l)	APHA 22nd Edition, 5210-B	:	<2.0

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD. KOL.

ENVIROCHECK
Environmental Laboratory
169 & 190, Rastraguru Avenue, Kolkata-700 028
Phone : 2579-2889/2891, 2549-7490
Fax : 2529-9141
E-mail : envcheck@cal2.vsnl.net.in

LECHATE STUDY REPORT

1.	Name of the Industry	:	Rashmi Metaliks Ltd.
2.	Address	:	Gokulpur, P.O. – Shyamraipur, P.S. – Kharagpur, Paschim Midnapore
3.	Date of sampling	:	08.03.2017
4.	Report No.	:	Env/646/L/M/16-17
5.	Reporting date	:	17.03.2017
6.	Type of Sample	:	Liquid Sample

Sl. No.	LOCATION	PARAMETERS (mg/kg.)						
		Fe	Zn.	Cr.	Cu	Ni	Pb	Cd
1.	Near Pellet Plant-I Area	680.0	52.0	2.80	16.50	7.20	5.0	<0.5
2.	Near DIP Plant	580.0	32.50	1.65	8.0	5.0	2.80	<0.5
3.	Near SMS Plant	168.50	36.50	1.80	7.0	3.82	3.50	<0.5

Authorised Signatory :

Dr. Ajoy Paul
(Scientist)

RASHMI METALIKS LTD.

Annexure-VIII

NOISE LEVEL SYUDY (AMBIENT)

1. Name of Industry : Rashmi Metaliks Ltd
2. Address : Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur
3. Date of Study : 08/03/17
4. Height from Ground Level : 4 ft
5. Location : Near Plant Main Gate (Kharagpur)

Time	Value db (A)		
	Max	Min	Leq
03.00PM - 03.20AM	64.1	58.2	63.26

ENVIROCHECK Kolkata 700 028 189 Rastraguru Avenue

Authorized Signatory & Stamp

RASHMI METALIKS LTD. KOL

NOISE LEVEL SYUDY (AMBIENT)

1. **Name of Industry** : **Rashmi Metaliks Ltd**
2. **Address** : **Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur**
3. **Date of Study** : **08/03/17**
4. **Height from Ground Level** : **4 ft**
5. **Location** : **Railway Sitting**

Time	Value db (A)		
	Max	Min	Leq
03.30PM – 03.50PM	64.5	62.1	63.80

ENVIROCHECK Kolkata 700 028 189, Rashtraguru Avenue

Authorized Signatory & Stamp

RASHMI METALIKS LTD. KOL

NOISE LEVEL SYUDY (AMBIENT)

1. **Name of Industry** : **Rashmi Metaliks Ltd**
2. **Address** : **Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur**
3. **Date of Study** : **08/03/17**
4. **Height from Ground Level** : **4 ft**
5. **Location** : **Malancho (Town) 4 km from Plant**

Time	Value db (A)		
	Max	Min	Leq
04.00PM - 04.20PM	64.1	61.2	63.10

ENVIROCHECK Kolkata 700 028 198, Rastraguru Avenue

Authorized Signatory & Stamp

RASHMI METALIKS LTD.

NOISE LEVEL SYUDY (AMBIENT)

1. **Name of Industry** : **Rashmi Metaliks Ltd**
2. **Address** : **Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur**
3. **Date of Study** : **08/03/17**
4. **Height from Ground Level** : **4 ft**
5. **Location** : **Gokulpur (Village) 1.5 km from Plant**

Time	Value db (A)		
	Max	Min	Leq
04.30PM – 04.50PM	60.9	54.2	56.18

ENVIROCHECK Kolkata

Authorized Signatory & Stamp

NOISE LEVEL SYUDY (SOURCE)

1. **Name of Industry** : **Rashmi Metaliks Ltd**
2. **Address** : **Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur**
3. **Date of Study** : **08/03/17 – 09/03/17 (24hrs)**
4. **Height from Ground Level** : **4ft**
5. **Location** : **Near SMS Plant**

Time	Value db (A)		
	Max	Min	Leq
06.00AM - 07.00AM	63.2	68.5	66.28
07.00AM - 08.00AM	62.8	67.5	65.18
08.00AM - 09.00AM	63.2	69.5	67.23
09.00AM - 10.00AM	64.5	67.8	66.12
10.00AM - 11.00AM	62.5	67.2	65.18
11.00AM - 12.00PM	63.5	67.8	65.28
12.00PM - 01.00PM	62.8	68.2	67.16
01.00PM - 02.00PM	61.2	68.5	65.38
02.00PM - 03.00PM	63.5	67.2	66.89
03.00PM - 04.00PM	62.8	67.5	65.38
04.00PM - 05.00PM	63.5	69.5	67.36
05.00PM - 06.00PM	62.8	69.5	68.12
06.00PM - 07.00PM	63.5	69.2	67.28
07.00PM - 08.00PM	64.5	68.2	67.10
08.00PM - 09.00PM	63.2	67.5	66.28
09.00PM - 10.00PM	64.2	69.1	68.10
10.00PM - 11.00PM	63.2	67.5	66.12
11.00PM - 12.00AM	62.8	68.2	65.89
12.00AM - 01.00AM	65.8	71.2	68.28
01.00AM - 02.00AM	67.5	69.2	68.26
02.00AM - 03.00AM	64.2	67.5	66.21
03.00AM - 04.00AM	61.2	67.5	64.46
04.00AM - 05.00AM	60.2	67.2	64.58
05.00AM - 06.00AM	61.8	67.5	65.23
		Average Leq :	**66.39**

ENVIROCHECK Kolkata 700 028 189, Rashtraguru Avenue

Authorized Signatory & Stamp

RASHMI METALIKS LTD. KOL.

NOISE LEVEL SYUDY (SOURCE)

1. **Name of Industry** : **Rashmi Metaliks Ltd**
2. **Address** : **Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur**
3. **Date of Study** : **08/03/17 – 09/03/17 (24hrs)**
4. **Height from Ground Level** : **4ft**
5. **Location** : **Near Sinter Plant**

Time	Value db (A)		
	Max	Min	Leq
06.00AM - 07.00AM	61.8	67.5	65.20
07.00AM - 08.00AM	62.8	65.8	64.28
08.00AM - 09.00AM	63.8	68.1	66.28
09.00AM - 10.00AM	62.8	67.2	65.18
10.00AM 11.00AM	63.2	69.2	67.23
11.00AM - 12.00PM	64.8	69.5	67.20
12.00PM - 01.00PM	62.8	68.3	66.12
01.00PM - 02.00PM	62.8	67.3	65.18
02.00PM - 03.00PM	60.2	67.8	64.23
03.00PM - 04.00PM	62.8	68.2	64.28
04.00PM - 05.00PM	61.8	67.5	66.28
05.00PM - 06.00PM	60.2	68.1	66.28
06.00PM - 07.00PM	62.5	69.2	67.26
07.00PM - 08.00PM	62.8	71.2	69.23
08.00PM - 09.00PM	63.5	67.2	65.18
09.00PM - 10.00PM	62.8	67.5	65.23
10.00PM - 11.00PM	63.2	68.5	65.38
11.00PM - 12.00AM	62.5	66.8	63.28
12.00AM - 01.00AM	61.2	67.2	65.23
01.00AM - 02.00AM	60.1	68.5	66.28
02.00AM - 03.00AM	62.8	67.5	65.46
03.00AM - 04.00AM	61.2	68.2	62.38
04.00AM - 05.00AM	62.8	69.8	67.12
05.00AM - 06.00AM	63.2	67.5	65.28
		Average Leq :	65.62

ENVIROCHECK Kolkata 700 028 189 Rastraguru Avenue

Authorized Signatory & Stamp

NOISE LEVEL SYUDY (SOURCE)

1. Name of Industry : Rashmi Metaliks Ltd
2. Address : Vill. – Gokulpur, P.O – Shyamraipur, Kharagpur (Local), Paschim Mednipur
3. Date of Study : 08/03/17 – 09/03/17 (24hrs)
4. Height from Ground Level : 4ft
5. Location : Near MBF Area

Time	Value db (A)		
	Max	Min	Leq
06.00AM - 07.00AM	61.2	68.5	66.23
07.00AM - 08.00AM	62.5	67.5	66.12
08.00AM - 09.00AM	64.8	68.1	65.69
09.00AM - 10.00AM	62.8	70.2	68.23
10.00AM - 11.00AM	63.8	71.5	69.20
11.00AM - 12.00PM	64.8	69.2	68.26
12.00PM - 01.00PM	63.5	68.1	66.47
01.00PM - 02.00PM	64.5	69.2	67.58
02.00PM - 03.00PM	64.2	70.2	69.36
03.00PM - 04.00PM	65.8	69.1	67.91
04.00PM - 05.00PM	66.2	68.2	67.21
05.00PM - 06.00PM	67.2	71.2	70.23
06.00PM - 07.00PM	69.2	73.5	71.38
07.00PM - 08.00PM	62.8	70.1	68.20
08.00PM - 09.00PM	64.5	71.2	69.68
09.00PM - 10.00PM	63.2	72.5	69.80
10.00PM - 11.00PM	62.5	68.5	66.23
11.00PM - 12.00AM	61.8	65.8	63.20
12.00AM - 01.00AM	63.8	68.2	64.23
01.00AM - 02.00AM	62.8	69.5	67.82
02.00AM - 03.00AM	63.8	68.2	67.83
03.00AM - 04.00AM	62.8	67.5	66.23
04.00AM - 05.00AM	61.8	68.5	66.23
05.00AM - 06.00AM	63.5	67.2	65.28
		Average Leq :	67.44

ENVIROCHECK Kolkata 700 028 189, Rashtraguru Avenue

Authorized Signatory & Stamp

RASHMI METALIKS LTD. KOL.

RASHMI GROUP

Annexure-IX

RASHMI METALIKS LTD.

OCCUPATIONAL HEALTH SURVEILLANCE REPORT

FOR the Year 2016-2017

SINTER PLANT

Age (Years)	No. of employees of Health Surveillance performed	Sex		Type of Testing							Doctors involved for testing	Remarks
		Male	Female	Blood Pressure			Eye Testing (Vision)		Lung Function Testing			
				Normal	High	Low	Normal	Defect	Normal	Infected		
20 to 24	84	84	0	84	0	0	84	0	84	0		
25 to 30	70	70	0	70	0	3	70	2	70	0		
30 to 39	65	65	0	65	0	1	65	1	65	0		
40 to 49	14	14	0	14	1	0	14	0	14	0		
50 to 60	8	8	0	8	1	0	8	1	8	0		
Total	241	214	0	214	2	4	214	4	214	0		

MDF PLANT

Age (Years)	No. of employees of Health Surveillance performed	Sex		Type of Testing							Doctors involved for testing	Remarks
		Male	Female	Blood Pressure			Eye Testing (Vision)		Lung Function Testing			
				Normal	High	Low	Normal	Defect	Normal	Infected		
20 to 24	66	66	0	66	0	1	66	0	66	0		
25 to 30	78	78	0	78	0	2	78	1	78	0		
30 to 39	65	65	0	65	0	0	65	0	65	0		
40 to 49	25	25	0	25	1	1	25	1	25	1		The lung infected person was shifted from

RASHMI METALIKS LTD. KOL

												the said unit and necessary medical aids were given as per doctor advice.
50 to 60	8	8	0	8	1	0	8	2	8	0		
Total	242	242	0	242	2	4	242	4	242	1		

SMS PLANT

Age (Years)	No. of employees of Health Surveillance performed	Sex		Type of Testing							Doctors involved for testing	Remarks
		Male	Female	Blood Pressure			Eye Testing (Vision)		Lung Function Testing			
				Normal	High	Low	Normal	Defect	Normal	Infected		
20 to 24	115	115	0	114	0	1	115	0	115	0		
25 to 30	118	118	0	115	0	3	117	1	118	0		
30 to 39	88	88	0	87	0	1	87	1	88	0		
40 to 49	25	25	0	25	0	0	25	0	25	0		
50 to 60	4	4	0	4	0	0	3	1	4	0		
Total	350	350	0	345	0	5	347	3	350	0		

RASHMI GROUP

Annexure-X

RASHMI METALIKS LTD. (RML)

Expenses on account of "Enterprise Social Responsibility"(ESR)for the period (Apr'2016 –Mar'2017)

Particulars	***Approx Amount (Rs.)***
Activities On Educational Field(Donations to Schools for building construction, Purchasing reference books for the students, Distribution of cots to school hostels, to develop IT education, Distributing special awards to the meritorious students)	**12,00,000.00**
Book Fair Organized by different local organizations, NGOs, Local Club.	**18,00,000.00**
Art Exhibition- To encourage Local Artists – we organized **Art Exhibitions** in different villages/ in different areas of Kharagpur Town to show their talent and culture.	**6,00,000.00**
Sports- To encourage the younger generations. We organized different competitions on Foot Ball, Cricket & Volley Ball in villages through different clubs of villages.	**7,00,000.00**
Cultural Activities- To boost up the talent of School Children, we conducted Debate Competitions, Essay Writings, Poem & Drawing Competitions.	**1,00,000.00**
Developing Roads, Repairing Roads in different localities of Kharagpur (Local & Town).	**20,00,000.00**
Helping Hand to the Poor Villagers:	
Blanket Distribution in different villages.	**6,50,000.00**
Free eye check up camp & spectacle distribution.	**2,80,000.00**
Helping Poor Villagers on their Daughter's Marriage.	**3,00,000.00**
Helping Poor Villagers on Medical Treatment.	**7,00,000.00**
Helping Poor Villagers on Cremation Ceremony.	**1,00,000.00**
Active Participation & Co-operation with Local-Administration	**3,00,000.00**
Traffic Police – making arrangement for Road Barriers	**1,00,000.00**

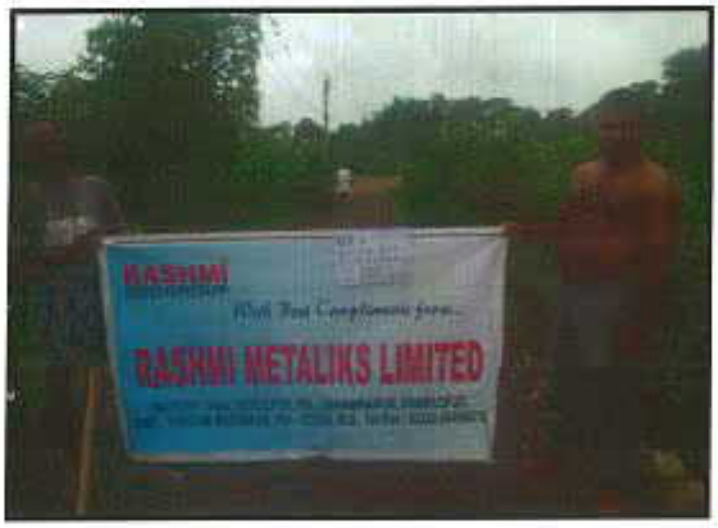
Expenses relating to Worker Welfare	**4,50,000.00**
Medical:	
Ambulance for 24 hrs. Service to the locality	**7,50,000.00**
Development of Local Health Centres	**7,50,000.00**
Financial Help to Blood Donation Camps which was organized by Local people in different places	**5,00,000.00**
Green Belt Development in Local Area	**4,00,000.00**
Spiritual :	
For New Temple Constructions.	**7,00,000.00**
For Repairing of Old Temples.	**1,50,000.00**
Contribution for Different Periphery Festivals:	**16,50,000.00**
For the Locality:	
Fire Tender for 24 hrs Service to the locality.	**6,50,000.00**
Rescue operations:	
Natural Calamities	**20,00,000.00**
Grand Total (Rs.)	**1,68,30,000.00**

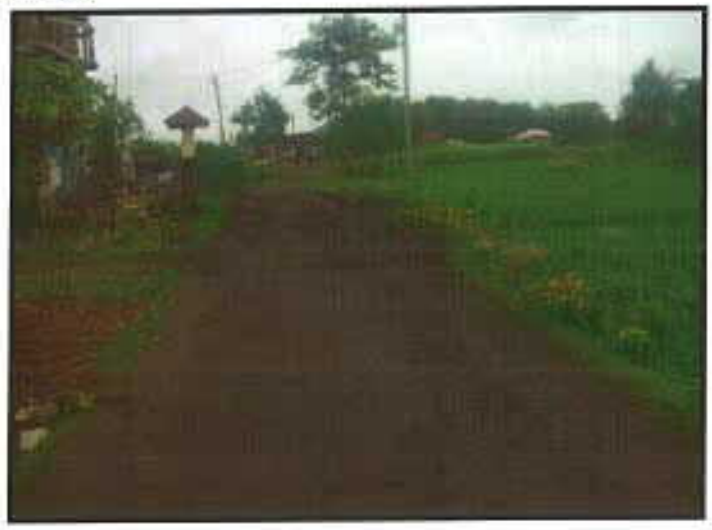
Annexure-X

RASHMI GROUP

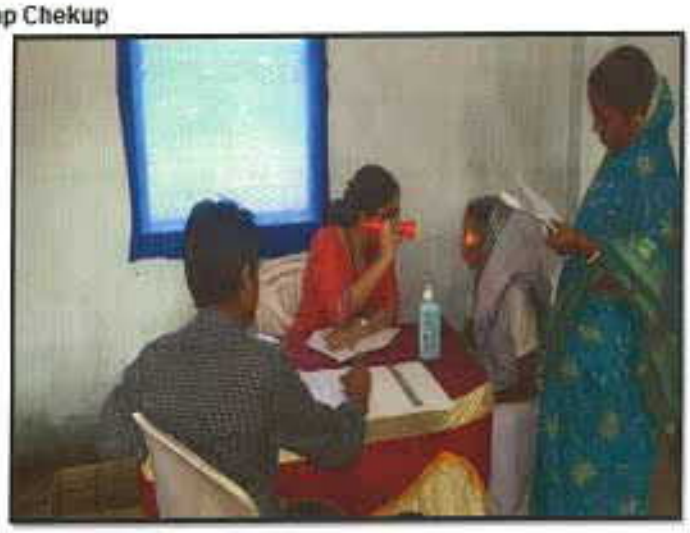
ESR Work Picture

Road Construction

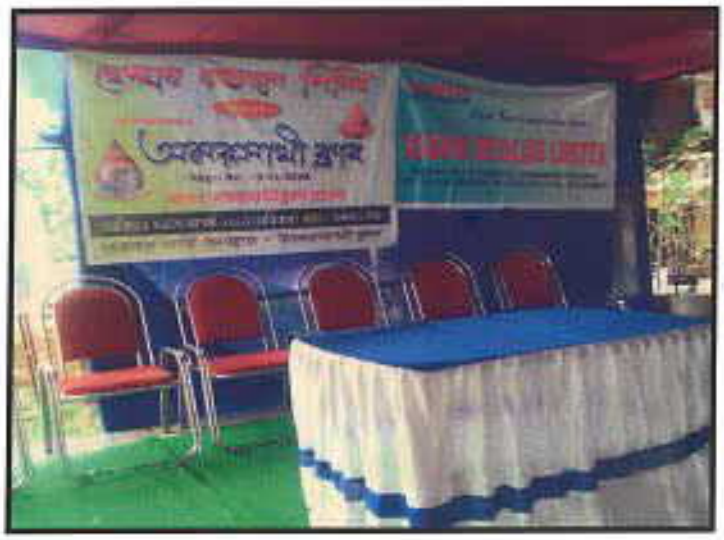




Free Eye Camp Chekup



Blood Donation Camp

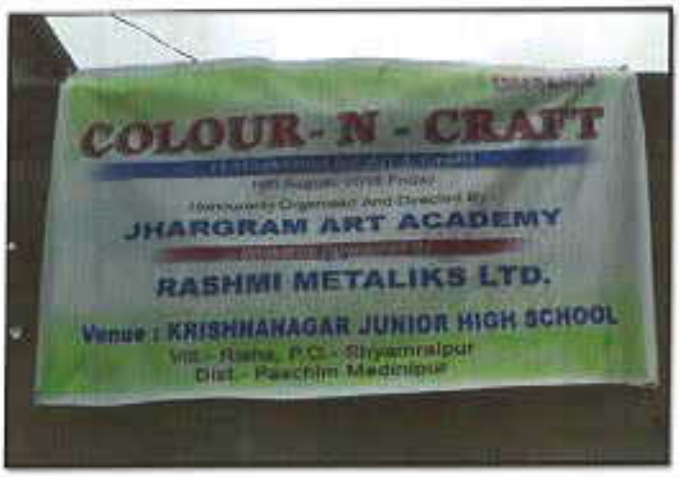


RASHMI METALIKS LTD.

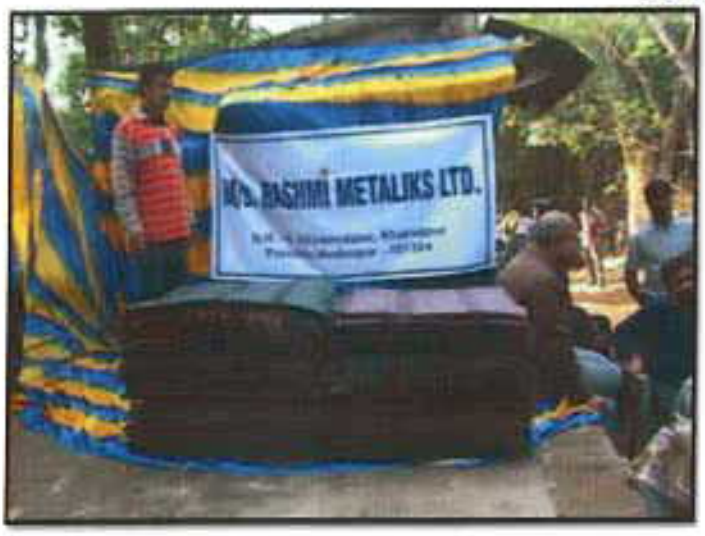
ESR Work Picture

RASHMI GROUP

Colour & Craft (Workshop for Art & Craft)



Blanket Distribution



RASHMI METALIKS LTD.