

0/Copy

Received  
S/S  
13/11/19



**Vardhman**

Delivering Excellence. Since 1965.

**VARDHMAN SPECIAL STEELS LIMITED**

भारत सरकार Govt. of India  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
Min. of Environment, Forests & Climate Change  
बेज नं. 24-25, सेक्टर 31A  
Bays No.24-25, Sec. 31A  
चण्डीगढ़/Chandigarh  
C-58, FOCAL POINT  
LUDHIANA-141010, PUNJAB  
T: +91-161-2670707-09  
F: +91-161-2670503  
E: steel@vardhman.com

VSSL/P&A/2019 8119

To,  
The Advisor  
Ministry of Environment, Forests & Climate Change  
Regional Office (North), Government of India  
Bays No. 24-25, Sector 31A  
Chandigarh

**Subject:** Submission of Six-Monthly Compliance Report for the Industry namely "Vardhman Special Steels Ltd." at C-58, Industrial Focal Point, Phase III, Ludhiana (Punjab) for the period ending September, 2019.

Sir,

We are hereby submitting six monthly compliance report for the period ending 30.09.2019 along with status on compliance of the stipulated environmental conditions. All relevant details / documents are attached as annexure for your kind consideration.

The Test Reports on Ambient Air quality, Water, Soil and Noise levels etc. are also submitted herewith. The Soft copy of complete report in CD is Also along with the report.

Thanking You,

Yours Faithfully

For Vardhman Special Steels Limited

(M. K. Srivastav)  
Factory Manager  
Mob. 7508002503  
[ce.vss@vardhman.com](mailto:ce.vss@vardhman.com)

Copy to:

Environmental Engineer  
Punjab Pollution Control Board, Regional Office-I, Focal Point, Phase – III, Ludhiana

Recd  
S/S  
15/11/19

Date: 04.11.2019

YARNS | FABRICS | THREADS | GARMENTS | FIBRES | STEELS

**Six Monthly Compliance of stipulated Environmental conditions in the Environment Clearance for Expansion and Modernization of Steel Melting Shop with Electric Arc Furnace from Existing Capacity of 1,25,000 TPA to 2,00,000 TPA**

**File No. J-11011/74/2013-IA II (I) dated 30.06.2015**

**COMPLINACE PERIOD  
(April 2019 to September, 2019)**

**SUBMITTED BY:**

**M/S. Vardhman Special Steels Limited C-58,  
Industrial Focal Point, Phase-III, Ludhiana, 141010,  
Punjab**

**DATA SHEET**

1.	Project Type	Steel Industry
2.	Name of the Project	M/s. Vardhman Special Steels Ltd.
3.	Clearance letter (s) F.NO. & Date	Environment Clearance has been obtained from Ministry of Environment, forest and Climate Change, Govt. of India vide F.No. J-11011/74/2013-IA II (I) dated 30th June, 2015. Copy of the same is attached as <b>Annexure-1</b> .
4.	Location	C-58, Industrial Focal Point, Phase-III
a)	District (s)	Ludhiana-141010
b)	State (s)	Punjab
5.	Address for correspondence	M/s. Vardhman Special Steels Ltd. C-58, Industrial Focal Point, Phase-III Ludhiana, Punjab -141010
6.	Salient features	<p>Productivity improvement through technology upgradation of steel melting shop with Electric Arc Furnace from 1,25,000 TPA to 2,00,000 TPA. The existing capacity of the plant is 2,00,000 TPA for which varied Consent to Operate has been obtained from PPCB. Copy of the same is attached as <b>Annexure-2</b>. As required by the State Pollution Control Board, the approval from the State Competent Authority has been obtained under press Note 17 (1984 series). Copy of the same is already submitted.</p> <p>Plant site co-ordinates of 4 corners are 30°53.356' N to 75°54.404' E, 30°53.283' N to 75°54.546' E, 30°53.161' N to 75°54.448' E, 30°53.216' N to 75°54.305' E elevation 229m. The project covers an area of 19.74 acres (or 7.99 ha) The nearest</p>

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

		railway station is Ludhiana, which is 6.5km in WNW direction. Nearest airport is Chandigarh Airport is 87km in ESE. No National Parks/wildlife sanctuary/reserve forests exist within 10km of study area. The project site is located within Government approved industrial Focal Point, Ludhiana.
a)	Of the project	The project covers an area of 79,884.946 sq.m (or 19.74 acres)
b)	Of the environment	The total water requirement of the project is 773m <sup>3</sup> /day. No additional ground water is required for the project. Total electricity demand of 38 MVA is being supplied by Punjab State Power Corporation Ltd. to run the plant for 24 hrs.
7.	Breakup of the Project area	--
a)	Submergence area	Not Applicable
8	Breakup of the project affected population with enumeration of those losing houses/dwelling units only, agricultural land and landless laborers/land landless laborers/artisans.	Not applicable as no new land has been acquired. The expansion/ modernization are within the existing project.
a)	SC/ST/Adivasis	Not Applicable
b)	Others (Please indicate whether these figures are based on any scientific and systematic survey carried out or only provisional figures, If a survey has been carried out give details and year	Not Applicable

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	of survey).																									
9.	Financial Details	-																								
a)	Project cost as originally planned and subsequent revised estimates and the year of price reference.	Rs. 44.71 Crores. Rs. 36.70 Crores as on 31st March, 2018.																								
b)	Allocations made for environmental management plan with item wise year of assessment.	As per EMP, proposed expenditure on environment protection measures as below: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.No.</th> <th style="width: 50%;">Particulars</th> <th style="width: 20%;">Approx. Capital Cost (in lac)</th> <th style="width: 20%;">Approx. Recurring Cost (in lac)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Air Pollution Control</td> <td>1100</td> <td>205</td> </tr> <tr> <td>2</td> <td>Solid Waste Management</td> <td>-</td> <td>115</td> </tr> <tr> <td>3</td> <td>Environmental Laboratory</td> <td>-</td> <td>11</td> </tr> <tr> <td>4</td> <td>Green Belt</td> <td>-</td> <td>35</td> </tr> <tr> <td></td> <td><b>Total</b></td> <td><b>1100</b></td> <td><b>366</b></td> </tr> </tbody> </table>	S.No.	Particulars	Approx. Capital Cost (in lac)	Approx. Recurring Cost (in lac)	1	Air Pollution Control	1100	205	2	Solid Waste Management	-	115	3	Environmental Laboratory	-	11	4	Green Belt	-	35		<b>Total</b>	<b>1100</b>	<b>366</b>
S.No.	Particulars	Approx. Capital Cost (in lac)	Approx. Recurring Cost (in lac)																							
1	Air Pollution Control	1100	205																							
2	Solid Waste Management	-	115																							
3	Environmental Laboratory	-	11																							
4	Green Belt	-	35																							
	<b>Total</b>	<b>1100</b>	<b>366</b>																							
c)	Benefit cost ratio/Internal rate of return and year of assessment.	6.22 5 for year 2018-19 (EBITDA to sales)																								
d)	Whether (c) includes the cost of environmental management as shown in (b) above.	Yes																								
e)	Actual expenditure incurred on the project so far.	Rs. 36.70 Crores																								
f)	Actual expenditure incurred on the environmental management plans so far.	The actual capital cost & recurring expenditure done on the environmental management plan as given in the table below: <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">S.No.</th> <th style="width: 50%;">Particulars</th> <th style="width: 40%;">Approx. Recurring Cost (in Rs.)</th> </tr> </thead> <tbody> <tr> <td> </td> <td> </td> <td> </td> </tr> </tbody> </table>	S.No.	Particulars	Approx. Recurring Cost (in Rs.)																					
S.No.	Particulars	Approx. Recurring Cost (in Rs.)																								

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

		1.	FES stacks/APCD Maintenance	3,71,260
		2.	Hazardous Waste Management	55,41,948
		3.	Environment	19,99,955
		4.	Green Belt	10,60,408
		5.	Safety/Fire Fighting	8,84,870
		<b>From period 1<sup>st</sup> April 2019 to 30<sup>th</sup> September 2019</b>		<b>98,58,441</b>
10.	Forest Land requirement	Not Applicable		
a)	The status of the approval for diversion of forest land for non forestry use.	Not Applicable		
b)	The status of clear felling.	Not Applicable		
c)	The status of compensatory afforestation programme in the light of actual field experience so far.	Not Applicable		
11.	The status of clear felling in non forest areas (such as submergence area of reservoir, approach road) if any, with quantitative information.	Not Applicable		
12.	Status of construction.	Completed		
a)	Date of commencement (actual and /or planned)	Phase I (1,25,000 TPA to 1,60,000 TPA): July 2015 (Actual) Phase II (1,60,000 TPA to 2,00,000 TPA): September, 2016.		
b)	Date of completion (actual and /or planned)	Phase I: - Completed Phase II: - Completed on 31st March, 2018.		
13.	Reasons for the delay if the project is yet to start.	Not Applicable		

**Six Monthly Compliance Status Report on Conditions imposed in  
Environmental Clearance for Period ending 30 September, 2019**

<b>A. Specific Conditions</b>		
<b>S.No.</b>	<b>EC Conditions</b>	<b>Reply</b>
I	The Project Proponent should install 24×7 air and water monitoring devices to monitor air emission and effluent discharge, as provided by CPCB/MoEF&CC and submit report to Ministry and its Regional Office.	Online monitoring device has been installed to monitor air emissions (SPM) from stack of EAF & data is transmitted to CPCB/PPCB servers. No Trade effluent is being generated at site.
II	Increased production should be taken up only after the installation and commissioning of the pollution control equipment's as approved by Punjab Pollution Control Board.	Fume Extraction system for capturing primary & secondary emissions generated during the process at Electric Arc Furnace (EAF) is provided. Consents to Operate under Air & Water Acts has been obtained from PPCB; copy of the same is attached along as <b>Annexure 2</b> .
III	Measures shall be taken to reduce PM levels in the ambient air stack of adequate height & diameter with continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices viz Electrostatic precipitator, bag house, bag filters etc. shall be provided to keep the emission levels below 50 mg/Nm <sup>3</sup> and installing energy efficient technologies in the plant.	Bag Filters have been installed to reduce emissions of Particulate matter from stacks. Stack sampling has been done. Latest Test reports are attached as <b>Annexure 3</b> .

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

IV	<p>Online ambient air quality monitoring and continuous stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control devices. Gaseous emission levels including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the ministry vide G.S.R (E) dated 30th May, 2008 and regularly monitored. Guidelines/ Code of Practice issued by the CPCB shall be followed.</p>	<p>Online ambient air quality monitoring is not useful as the industry is situated in Industrial Focal Point which itself is an air polluted belt due to various other industries discharging their fumes in air. However, latest ambient air monitoring are attached as <b>Annexure 3</b>.</p>
V	<p>Dust Suppression system and bag filters shall be installed to control the fugitive dust emissions at conveyer and transfer points, product handling, loading and unloading points.</p>	<p>Bag Filters have already been provided on the stacks to reduce the emissions. Further, a stack has been provided with additional Air Pollution Control Device (APCD) with bag filter of capacity 30,000 m<sup>3</sup>/hr in the conveyor of material handling system to control fugitive dust emissions.</p>
VI	<p>Water consumption shall not exceed as per the CREP standard prescribed for the steel plants. Additional water, if any, required for the plant project operations shall be met from rainwater stored in rainwater harvesting structures.</p>	<p>There is no additional water requirement for the project, however, to conserve water, 6 rain water recharging pits have been provided within the premises.</p>
VII	<p>Rainwater harvesting system shall be prepared so that the rainwater can be collected, re-used and may be used for ground water recharge. The</p>	<p>6 Nos. Rainwater Recharging pits are provided within the project premises to ground water recharge. Regular maintenance and cleaning of pits are being</p>

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	concrete drains shall be de-silted and regular supervision of the areas shall be carried out so that the blocking of drains may be avoided for quick discharge of rainwater. Efforts shall further be made to use maximum water from the rain water harvesting sources. If needed, capacity of the reservoir shall be enhanced to meet the maximum water requirement.	done time to time.
VIII	Greenbelt of approximately 15-20 meter width consisting of a 3 tier of trees consisting of species with thick canopy shall be developed all along the periphery of the plants, roads, vacant spaces, transfer points etc as part of 33% of the total plant area.	Greenbelt is maintained along the roads, vacant spaces and transfer points. Also, tree plantation has been done along the boundary wall of the project to the maximum extent. Vardhman Special Steel Limited has developed a 2-acre park opposite its plant with complete green cover. Greenbelt and Park Photos is also attached as <b>Annexure -4</b> .
IX	All the effluents shall be treated and reused for dust suppression/green belt development. No Effluent shall be discharged and 'zero' discharge shall be adopted.	The Industry is not discharging any trade effluents. "Zero Discharge" is being maintained after successful commissioning of shot blasting machine in July, 2015.
X	Full utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 and subsequent amendment in 2003 and 2010. All the fly ash shall be provided to cement and brick manufacturers for further utilization and Memorandum of Understanding	Not Applicable

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	shall be submitted to the Ministry's Regional Office at Chandigarh.	
XI	Hazardous materials required during construction phase and in plant operations shall be stored properly as per the regulations and reused/recycled as per the EPA rules.	No hazardous material is used for either construction or up-gradation of the technology. Hazardous waste generated is being stored as per CPCB regulations and is being dispatched to authorize TSDF for disposal. Copy of Authorization No. HWM/renewal/LDH/2018/8130804 dated 1/10/2018 obtained from PPCB under Hazardous Wastes (Management, Handling and Transboundary Movement) Rules, 2016 and is valid till March, 2023, copy is attached as <b>Annexure-5</b> . Hazardous waste material sold to Authorized recycler and MoU is attached as <b>Annexure-6</b> .
XII	Vehicles and Construction machinery are properly maintained to minimize the exhaust emission as well as noise generation to meet the prescribed standards.	All company vehicles & vehicles hired for transportation of raw material / finished products have valid "Pollution Under Check" (PUC) Certificate. Copy of valid PUC certificates are attached as <b>Annexure 7</b> .
XIII	Risk and Disaster Management Plan along with the mitigation measures shall be prepared and implemented.	Already in place and is under operation.
XIV	All the recommendations made in the Charter on Corporate social responsibility for Environment Protection (CREP) for the steel plants shall be implemented.	Details of the CSR activities undertaken during the April, 2019 to September 2019 are attached as <b>Annexure -8</b> .

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

XV	All the commitments made to the public during public hearing/ public consultation shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Public hearing was exempted due to the plant is located in approved Industrial Focal Point.
XVI	All the permanent workers shall be covered under ESI scheme. The Company shall have the provision for treatment of its workers at the local Nursing Homes & Hospitals in case of Emergency. Annual Medical Checkup on some medical parameters like Blood test, Chest X-Ray, Eye test, Audiometry, Spirometry etc. shall be conducted amongst the employees of the company.	All the workers are covered under ESI scheme. In House dispensary is available within the plant with the qualified Doctors along with Ambulance Facility. Testing has been done for Audiometry, Spirometry, Eye, blood and urine tests are being done at regular intervals. Copy of the medical records is attached along as <b>Annexur-9</b> . Agreement has already been done with Medicare Environmental Management Pvt. Ltd. for disposal of Biomedical Waste and is valid till September, 2023.
XVII	At least 5% of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs. The proponent shall be prepare a detailed CSR plan for every next 5 years for the existing-cum expansion project, which includes Village wise, sector-wise (Health, Education, Sanitation, Health, Skill development and infrastructure requirements such as strengthening of village roads, avenue plantation, etc) activities in consultation with local communities	Agreed and accepted. Details of the CSR activities undertaken during the period April 2019 to September 2019 are attached as <b>Annexure -8</b> .

	<p>and administration. The CSR plan will include the amount of 2% retain annual profits as provided for in Clause 135 of the companies act,2013 which provides for 2% of the average net profits of previous 3 years towards CSR activities for life of the project. A separate Budget head shall be created and the annual capital and revenue expenditure on various activities of the plan shall be submitted as part of the compliance report to RO, at Chandigarh. The details of the CSR plan shall also be uploaded on the company website and shall also be provided in the Annual Report of the Company.</p>	
<b>B. General Conditions</b>		
I	The project authorities must strictly adhere to the stipulations made by the Punjab Pollution Control Board and the State Government.	Agreed and Accepted
III	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of the Environment, Forests and Climate Change (MoEF&CC).	In case of expansion or modification, if any, a prior approval from Ministry of the Environment, Forests and Climate Change (MoEF&CC) will be taken.
III	At Least four ambient air quality monitoring stations should be established in the downward	Four ambient air quality monitoring stations have been installed at project site. Latest Test Reports of ambient air quality

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	direction as well as where maximum ground level concentration of PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>x</sub> are anticipated in consultation with the SPCB. Data on ambient air quality and stack emissions shall be regularly submitted to this Ministry including its Regional Office at Nagpur and the SPCB/CPCB once in six months.	are attached as <b>Annexure 3</b> .
IV	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 from time to time. The treated wastewater shall be utilized for plantation purpose	Agreed, Zero discharge is being maintained after the successful commissioning of shot blasting machine
V	The overall noise level 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 noise generation. The ambient noise levels should conform to the standards prescribed under EPA rules, 1989 viz 75dBA (daytime) and 70dBA (night time).	Noise Levels are maintained by providing canopy and acoustic chamber and are within the prescribed limits. Test reports for the ambient noise levels are attached as <b>Annexure 3</b> .
VI	Occupational health surveillance of the workers shall be done on regular basis and records maintained as per	Agreed. Medical Check-ups camps & other Occupational test like audiometry, spirometry, Widal, Sillicosis etc. are being

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	the Factories act.	done regularly and record is being maintained of the workers. Copy of the medical records is attached along as <b>Annexure-9</b> . Agreement has already been done with Medicare Environmental Management Pvt. Ltd. for disposal of Biomedical Waste and is valid till September, 2023. Also, the manifest of the bio-medical waste disposal is attached along as <b>Annexure 10 &amp; 11</b> .
VII	The Company shall develop rain water harvesting structures to harvest the rain water for the utilization in the lean season besides recharging the ground water table.	6 Nos. Rainwater recharging pits have been provided within the project site to recharge ground water.
VIII	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 activities in the surrounding villages like community development programmes, educational programmes, drinking water supply and health care etc.	Agreed and accepted. The company in close association with District administration is carrying out various activities for improving the socio-economic condition of the people living in the surrounding areas.
IX	Requisite funds shall be earmarked towards capital cost and recurring cost/annum for environment	Agreed and accepted.

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	<p>pollution control measures to implement the conditions stipulated by the Ministry of Environment, Forests and Climate Change (MoEF&amp;CC) 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 Chandigarh. The Funds so provided shall not be diverted for any other purpose.</p>	
X	<p>A copy of clearance letter shall be sent by the proponent to the 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 of the proposal. The Clearance letter shall also be put on the web site of the company by the proponent.</p>	<p>Copy of Environment Clearance Letter has already been uploaded on Company's Website.</p>
XI	<p>The Project proponent shall upload the status of the compliance of the stipulated environment clearance conditions including results of the monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the regional office of MoEF&amp;CC at</p>	<p>Agreed. Website is being updated regularly.</p>

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	Chandigarh. The respective Zonal Office of the CPCB and the SPCB. The criteria pollutant levels namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects shall be monitored and displayed at a convenient location near main gate of the company in the public domain.	
XII	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the regional office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Chandigarh/CPCB/SPCB shall monitor the stipulated conditions.	Agreed. Six Monthly Compliance Reports are being regularly submitted to Regional office of MoEF&CC, Chandigarh and respective Regional Office of PPCB, Ludhiana last report submitted on 25.04.2019. Copy attached as <b>Anenxure – 12.</b>
XIII	The Environmental statement for each financial year ending 31st March in Form V as is mandated to 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	Acknowledged copy of letter for submission of Form V to PPCB is attached as <b>Annexure 13.</b> The same was submitted on 11.09.2019.

**Ministry of Environment, Forest and Climate Change  
Northern Region Office Chandigarh-160030**

	<p>company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Office of the MoEF&amp;CC at Chandigarh by e-mail.</p>	
XIV	<p>The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance are available with the SPCB and may also be seen at Website of the ministry of Environment, Forests and Climate Change (MoEF&amp;CC) 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 of the locality concerned and a copy of the same should be forwarded to the Regional office at Chandigarh.</p>	<p>Copy of advertisement has already been submitted with six monthly report.</p>
XV	<p>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 date of commencing the land development work.</p>	<p>Agreed. Expansion has been completed on 31st March, 2018.</p>

