

Conditions of Environmental Clearance granted by Ministry of Environment & Forest (MoEF/GOI) Govt. of India.(F.No J-11011/527/2010-IA-II (I))

Sl. no	SPECIFIC CONDITIONS	COMMENTS
i	The company shall install fume extraction system, wet scrubber and bag filters etc. to control the particulate emissions below 50 mg/Nm ³ .	RWP/Bela has installed Fume Extraction System (FES) with Bag House filter to control the particulate emission below 50 mg/Nm ³ .
ii	The National Ambient Air Quality Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 should be followed.	Service of CPCB approved agency is being taken for monitoring of Ambient Air quality.
iii	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. 414(E) dated 30th May, 2008 and regularly monitored. Guidelines / Code of Practice issued by the CPCB should be followed.	Service of CPCB approved agency is being taken for monitoring of Stack Emissions. Monthly report is being uploaded on website and halfyearly report is being dispatched to BSPCB and regional office Bhubneshwar.
iv	The Company shall explore the feasibility of using producer gas as fuel in place of LPG.	RWP/Bela is a secondary steel manufacturing unit, where no by products are generated. Setting of producer gas plant requires more than 10 Acres additional space, which will reflect the project cost more due to additional land and machine. Therefore to manufacture Rail wheel economically, setting-up of Producer gas plant is not a viable solution. The use of LPG is most techno-economically & environment friendly option.
v	The total water requirement shall not exceed 250m ³ /day. Permission to draw ground water shall be obtained from the Competent Authority as may be applicable in this case. No effluent shall be discharged and 'zero' discharge shall be adopted.	Permission to draw Ground Water has been obtained from CGWA which is upto two year from date of issue i.e 01-02-2015 . No effluent is being discharged and Zero discharge have adopted. Renewal of permission to draw ground water from CGWA is being processed.
vi	Efforts shall be made to make use of rain water harvested. If needed, capacity of the reservoir should be enhanced to meet the maximum water requirement. Only balance water requirement shall be met from other sources.	Surrounding area of the plant gets submerged every year in the monsoon. Therefore ground water level in this area is high. Despite this rain water harvesting has been provided two nos. of ponds. Rain water is being collected in these ponds through underground storm water line and main hole with opening provided all over the main plant area. Size and depth of ponds is enough to accumulate the storm water and recharge the ground water.
vii	Risk and Disaster Management Plan along	Risk and Disaster Management Plan along with the

	with the mitigation measures shall be prepared and a copy submitted to the Ministry's Regional Office at Bhubaneswar, BSPCB and CPCB within 3 months of issue of environment clearance letter.	mitigation measures has been submitted to the Ministry's Regional Office at Bhubaneswar vde letter No.MoEF/EC/10 dated 31.12.2012
viii	As proposed, green belt shall be developed in 33 % of the plant area with a minimum 15-20 m width all around. Plant layout shall be revised accordingly. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.	Being developed. Being maintained as per the CPCB guidelines .To be ensured by Dy.CE
ix	All the commitments made to the public during the Public Hearing / Public Consultation meeting held on 30th June, 2011 should be satisfactorily implemented and a separate budget for implementing the same should be allocated and information submitted to the Ministry's Regional Office at Bhubaneswar.	No commitments have been made during Public hearing which has been conducted under BSPCB supervision. RWP/Bela Plant is a central Govt. Organization under ministry of railway. There is no such type of separate budget allocated.
x	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues & locals need and item-wise details along with time bound action plan should be prepared and submitted to the Ministry's Regional Office at Bhubaneswar. Implementation of such program should be ensured accordingly in a time bound manner.	The total one time and first three years of recurring expenses is about 88 Crore(app).Details are as follows:- 1.Road from Naya Gaon to Plant site(6.5 km)-15Crore (Already made) 2.Health Unit- 1.6 Crore (Already made & will be functional shortly) 3.Kendriya Vidyalaya- 4.0 Crore (Already made & functional) 4.Shopping Complex- 1.8 Crore (Made & will be functional shortly) 5. Plantation of 91.54 Acres Land-2.0 Crore (Being done) 6. Fire Fighting equipments-30.0 lakhs (Within 6 months) 7. Indirect employment for the outsourcing of non-core activities for local people- 9.3 Crore (Continuous process for next 3 years) 8. Annual expenditure by the 1000 Employees(50% of their salary)-54 Crore (Continuous process for next 3 years) This was submitted to CPCB and regional office Bhubneshwar.
xi	The company shall provide housing for construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Reply was complied during Project work.

xii	The Company shall submit within three months their policy towards Corporate Environment Responsibility which should inter-alia address (i) Standard operating process/ procedure to being into focus any infringement/ deviation/ violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.	Submitted vide letter No.MoEF/EC/10 dated 25.03.2013 to the director, MoEF,Regional office, Bhubaneswar.
Sl. no	GENERAL CONDITIONS	COMMENTS
i	The project authorities must strictly adhere to the stipulations made by the Bihar State Pollution Control Board and the State Government.	Agreed.
ii	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Agreed.
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.	Gaseous emissions are being monitored by CPCB approved agency . Monthly report is being uploaded on website and halfyearly report is being dispatched to BSPCB and regional office Bhubneshwar.
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.	Four stations for Ambient air quality is installed. Monthly analysis of sample of air is being done by CPCB approved agency and its report is being uploaded on website and halfyearly report is being dispatched to BSPCB and regional office, Bhubneshwar.

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 from time to time. The treated wastewater shall be utilized for plantation purpose.	No Industrial waste water is generated from the Plant as water is used for cooling purpose in closed circuit. Moreover a STP of 500m ³ /day capacity is installed for treatment of any type of waste water generated in the project premises. Domestic waste water is treated in septic tank followed by Up-flow anaerobic filter. The treated wastewater shall be utilized for plantation purpose.
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 noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	The overall noise level in the Plant is being monitored by CPCB approved agency on monthly basis and monthly report is being uploaded on website and half yearly report is being dispatched to BSPCB and regional office Bhubneshwar.
vii	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Complied
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.	Surface water level in this area is high. Despite this rain water harvesting has been provided two nos. of ponds. Rain water is collected in these ponds through underground storm water line and main hole with opening provided all over the main plant area. Size and depth of ponds is enough to accumulate the storm water and recharge the ground water.
ix	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP and public hearing reports. 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.	RWP/Bela has taken following measures. The total one time and first three years of recurring expenses is about 88 Crore(app).Details are as follows:- 1.Road from Naya Gaon to Plant site(6.5 km)-15Crore 2.Health Unit- 1.6 Crore 3.Kendriya Vidyalaya- 4.0 Crore 4.Shopping Complex- 1.8 Crore 5. Plantation of 91.54 Acres Land-2.0 Crore 6.Fire Fighting equipments-30.0 lakhs 7.Indirect employment for the outsourcing of non-core activities for local people- 9.3 Crore 8. Annual expenditure by the 1000 Employees(50% of their salary)-18 Crore
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	Service of CPCB approved agency is being taken for monitoring of Environmental issues such as Ambient Air, Noise, Stack Emissions and ground water. All the mentioned works report has been submitted to the Regional Office of the Ministry at Bhubaneswar. Appropriate funds are being utilized for operation

	Bhubaneswar. The funds so provided shall not be diverted for any other purpose.	of STP, Incinerator, solid waste and development of green area.
xi	A copy of clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the web site of the company by the proponent.	A copy of clearance letter has already been sent to the mentioned bodies/organizations. Copy of clearance letter is already uploaded on Workshop project website www.workshopprojects.org.in
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; 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 the main gate of the company in the public domain.	Results of monitoring data is being uploaded on website on monthly basis. Halfyearly report is being dispatched to BSPCB and Bhubneshwar.
xiii	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB. The Regional Office of this Ministry at Bhubaneswar/ CPCB / SPCB shall monitor the stipulated conditions.	Agreed. Six monthly reports of monitoring data are being sent to Regional Office of MOEF, the respective Zonal Office of CPCB and the SPCB.
xiv	The environmental 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 alongwith 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.	Environment statement for the year 2015-16 in the format Form-V as mandate has been submitted to BSPCB, Patna.
xv	The Project Proponent shall inform the public that the project has been accorded	complied

	<p>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 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 Bhubaneswar.</p>	
xvi	<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 the date of commencing the land development work.</p>	complied

(J.P Pandey)
WM/PFP cum Factory manager

**Rail Wheel Plant/Bela
(Ministry of Railways)
Govt. of India**



Office of the
Chief Administrative Officer,
Administrative Building,
Village- Bela, Block- Dariapur,
District- Saran(Chhapra), Bihar-841221

LIST OF ANNEXURE

SL. NO.	DESCRIPTION	ANNEXURE
1.	Monitoring of Ambient Air Quality Report	I
2.	Stack Emission Monitoring Report	II
3.	Ground Water analysis reports	III
4.	Ambient Noise Level Report	IV

ANNEXURE-I

Rail Wheel Plant/Bela (Indian Railways) Govt. of India		Office of the Chief Administrative Officer, Administrative Building, Village-Bela, Block- Dariapur, Saran (Chhapra), Bihar.
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Half Yearly Analysis of Ambient Air Quality Sample from April 2016 to September 2016.

REF: (i) Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.

(ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. PT2-116/11 T6094 Patna 03.08.2016

(iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-6095, Patna, dated 03.08.2016.


(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, Netel(India)Limited, Navi Mumbai)

MONITORING & ANALYSIS OF AMBIENT AIR QUALITY

Month	Parameters	Limit (Max)	Near Main Gate	Near East Boundary (Store Yard)	Side Wall	Near Main Store 2	Near ADM Building (TTC)	Avg. Values
Average Concⁿ in $\mu\text{g}/\text{m}^3$								
Apr.'16	PM ₁₀	100 $\mu\text{g}/\text{m}^3$	50.6	55.3		52	43.4	50.3
	PM _{2.5}	60 $\mu\text{g}/\text{m}^3$	27.05	29.9		30.4	29.5	29.2
	SO ₂	80 $\mu\text{g}/\text{m}^3$	8	8.85		8.3	8.5	8.4
	NO ₂	80 $\mu\text{g}/\text{m}^3$	17.4	17.5		17.5	17.5	17.5
May'16	PM ₁₀	100 $\mu\text{g}/\text{m}^3$	50.6	55.7		52.9	44.9	51.0
	PM _{2.5}	60 $\mu\text{g}/\text{m}^3$	28	30.8		31	30.6	30.1
	SO ₂	80 $\mu\text{g}/\text{m}^3$	8.3	9.05		8.5	8.9	8.7
	NO ₂	80 $\mu\text{g}/\text{m}^3$	17.6	17.6		17.5	17.7	17.6
Jun.'16	PM ₁₀	100 $\mu\text{g}/\text{m}^3$	49.8	54.9		52.6	44.4	50.4
	PM _{2.5}	60 $\mu\text{g}/\text{m}^3$	27.3	30.1		30.2	29.8	29.4
	SO ₂	80 $\mu\text{g}/\text{m}^3$	8.4	9.1		8.6	8.6	8.7
	NO ₂	80 $\mu\text{g}/\text{m}^3$	17.2	17.9		17.7	17.3	17.5
Jul.'16	PM ₁₀	100 $\mu\text{g}/\text{m}^3$	49.8	54.9		52.6	44.4	50.4
	PM _{2.5}	60 $\mu\text{g}/\text{m}^3$	27.3	30.1		30.2	29.8	29.4
	SO ₂	80 $\mu\text{g}/\text{m}^3$	8.4	9.1		8.6	8.6	8.7
	NO ₂	80 $\mu\text{g}/\text{m}^3$	17.2	17.9		17.7	17.3	17.5
Aug.'16	PM ₁₀	100 $\mu\text{g}/\text{m}^3$	48.4	52.5		51.4	44.9	49.3
	PM _{2.5}	60 $\mu\text{g}/\text{m}^3$	26.1	28.9		28.5	28.3	28.0
	SO ₂	80 $\mu\text{g}/\text{m}^3$	8.4	8.6		8.3	8.9	8.6
	NO ₂	80 $\mu\text{g}/\text{m}^3$	17.3	17.2		17.5	17.1	17.3
Sep.'16	PM ₁₀	100 $\mu\text{g}/\text{m}^3$	47.6	52.3		51.3	44.5	48.9
	PM _{2.5}	60 $\mu\text{g}/\text{m}^3$	25.7	28.1		27.9	29.2	27.7
	SO ₂	80 $\mu\text{g}/\text{m}^3$	8.5	8.6		8.7	8.7	8.6
	NO ₂	80 $\mu\text{g}/\text{m}^3$	17.4	16.9		17.3	16.9	17.1

Remark: All the above monitoring parameters are within the limit.

ANNEXURE-II

Rail Wheel Plant/Bela (Indian Railways) Govt. of India		Office of the Chief Administrative Officer, Administrative Building, Village-Bela, Block- Dariapur, Saran (Chhapra), Bihar.
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Half Yearly Analysis of Stack Emission Sample from April 2016 to September 2016.

- REF: (i)** Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.
(ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. PT2-116/11 T6094 Patna 03.08.2016
(iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-6095, Patna, dated 03.08.2016.
(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, Netel(India)Limited, Navi Mumbai)


STACK EMISSION MONITORING

Stack connected to Bag House attached with Electric Arc Furnace	Limit (Max)	Average Concentration for the Period Apr.'16 – Sep.'16
a. PM, mg / NM ³	50.00	47.25
b. SO ₂ , mg / NM ³	Not specified	33.27
c. NO ₂ , mg / NM ³	710.00	216
Stack connected to 2400 KVA DG Set (I)		
a. PM, mg / NM ³	75.00	32.53
b. SO ₂ , mg / NM ³	Not specified	42.68
c. NO ₂ , mg / NM ³	710.00	231.3
Stack connected to 2400 KVA DG Set (II)		
a. PM, mg / NM ³	75.00	37.3
b. SO ₂ , mg / NM ³	Not specified	42.47
c. NO ₂ , mg / NM ³	710.00	203.3
Stack connected to Draw Furnace		
a. PM, mg / NM ³	50.00	48.80

b. SO ₂ , mg / NM ³	Not specified	70.50
c. NO ₂ , mg / NM ³	710.00	217.5
Stack connected to Normalizing Furnace		
a. PM, mg / NM ³	50.00	34.32
b. SO ₂ , mg / NM ³	Not specified	52.48
c. NO ₂ , mg / NM ³	710.00	229.3
Stack connected to Incinerator		
a. PM, mg / NM ³	50.00	Not in operation
b. SO ₂ , mg / NM ³	Not specified	
c. NO ₂ , mg / NM ³	710.00	

Remark: All the above monitoring parameters are within the limit.

ANNEXURE-III

Rail Wheel Plant/Bela (Indian Railways) Govt. of India		Office of the Chief Administrative Officer, Administrative Building, Village-Bela, Block- Dariapur, Saran (Chhapra), Bihar.
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Half Yearly Analysis of Ground Water Sample from April 2016 to September 2016.

REF: (i) Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.

(ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. PT2-116/11 T6094 Patna 03.08.2016

(iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-6095, Patna, dated 03.08.2016.

(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, Netel(India)Limited, Navi Mumbai)


ANALYSIS OF GROUND WATER SAMPLES

Ground sample from	Water	UNIT	Limit as per IS10500:2012		Borewell No.1			Borewell no.2		
			Limit (Max) (mg/l) Desirable	Permissible limit in the absence of alternative source	May'16	July'16	Sep'16	May'16	July'16	Sep'16
Bore well No.										
Colour	Hazen	5.0	25	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
pH	--	6.5 to 8.5	--	7.14	7.3	7.2	7.2	7.0	7.0	7.0
Turbidity on NTU	NTU	5.00	10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	274.0	271.0	265.0	759.0	257.0	254.0	
Total Hardness as CaCO ₃	mg/l.	300.00	600.00	176.0	175.0	172.0	172.0	173.0	169.0	
Calcium as Ca	mg/l.	75.00	200.00	26.5	26.8	26.3	25.7	25.3	25.2	
Magnesium as Mg	mg/l.	30.00	--	26.5	26.5	25.9	25.7	25.6	25.3	
Iron as Fe	mg/l.	0.30	1.00	0.14	0.15	0.13	0.18	0.17	0.14	
Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	187	186	186	179	180	180	
Chloride as Cl	mg/l.	250.00	1000.00	44.6	45.2	44.6	43.8	42.6	43.2	
Sulphate as SO ₄	mg/l.	200.00	400.00	14.8	14.5	14.6	15.3	15.2	15.2	
Nitrate as NO ₃	mg/l.	45.00	100.00	3.9	3.8	3.6	3.5	3.6	3.7	
Fluoride as F	mg/l.	1.00	1.50	0.14	0.15	0.15	0.12	0.13	0.13	
Arsenic as As	mg/l.	0.05	No relaxation	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Coliform	MPN	10 in 100 ml	--	ND	ND	ND	ND	ND	ND	ND

Ground Water sample from	UNIT	Limit as per IS10500:2012		Borewell No.3			Borewell no.4		
		Limit (Max) (mg/l) Desirable	Permissible limit in the absence of alternative source	April'16	June'16	Aug'16	April'16	June'16	Aug'16
Borewell No.									
Bore well No.									
Colour	Hazen	5.0	25	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
pH	--	6.5 to 8.5	--	7.3	7.3	7.1	7.5	7.0	7.3
Turbidity on NTU	NTU	5.00	10.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
Total Dissolved Solids (TDS)	mg/l.	500.00	2000.00	272.0	271.0	270.0	256.0	257.0	258.0
Total Hardness as CaCO ₃	mg/l.	300.00	600.00	175.0	175.0	176.0	168.0	173.0	170.0
Calcium as Ca	mg/l.	75.00	200.00	26.3	26.8	26.5	25.4	25.3	25.4
Magnesium as Mg	mg/l.	30.00	--	25.8	26.5	26.3	24.3	25.6	25.8
Iron as Fe	mg/l.	0.30	1.00	0.13	0.15	0.14	0.12	0.17	0.18
Total Alkalinity as CaCO ₃	mg/l.	200.00	600.00	189	186	184	178	180	182
Chloride as Cl	mg/l.	250.00	1000.00	44.2	45.2	45.3	43.2	42.6	42.5
Sulphate as SO ₄	mg/l.	200.00	400.00	14.6	14.5	14.3	15.4	15.2	15.2
Nitrate as NO ₃	mg/l.	45.00	100.00	3.8	3.8	3.5	3.6	3.6	3.2
Fluoride as F	mg/l.	1.00	1.50	0.13	0.15	0.15	0.12	0.13	0.13
Arsenic as As	mg/l.	0.05	No relaxati	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Coliform	MPN	10 in 100 ml	--	ND	ND	ND	ND	ND	ND

Remark: All the above monitoring parameters are within the limit.

ANNEXURE-IV

Rail Wheel Plant/Bela (Indian Railways) Govt. of India		Office of the Chief Administrative Officer, Administrative Building, Village-Bela, Block- Dariapur, Saran (Chhapra), Bihar.
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Half Yearly Analysis of Ambient Noise Level Sample from April 2016 to September 2016.

REF: (i) Ministry of Environment and Forest (MoEF)/GOI environmental Clearance no. J-11011/527/2010-IA.II(I) dated 12.01.2012.

(ii) Bihar State Pollution Control Board (BSPCB) Discharge Consent Order Letter No. PT2-116/11 T6094 Patna 03.08.2016

(iii) BSPCB Emission Consent Order letter No. PT(NOC)-628/09 T-6095, Patna, dated 03.08.2016.

(Sampling & Analysis done by MoEF Recognized Environmental Laboratory, Netel(India)Limited, Navi Mumbai)

AMBIENT NOISE LEVEL MONITORING

Monitoring Location	Unit	Limit(Max)	Apr.'16		May'16		Jun.'16		Jul.'16		Aug.'16		Sep.'16	
			Day	Night	Day	Night	Day	Night	Day	Night	Day	Night	Day	Night
1. Near Main Gate	dB(A)	Industrial area- 75.0	40.2	35.6	41.6	36.2	42.3	35.9	42.3	35.9	41.8	36.2	40.2	34.8
2. Near ADM Building	dB(A)	Commercial area- 65.0	36.8	30.2	36.5	30.8	35.8	31.2	35.8	31.2	35.5	32.4	36.4	32.8
3. Near Final Wheel Processing Sec.	dB(A)	Residential area- 55.0	52.3	43.5	52.5	43	51.6	42.5	51.6	42.3	50.4	41.8	49.5	42.6
4. Near Furnace	dB(A)		51.6	43.2	51.8	43.6	50.4	42.6	50.4	42.6	51.6	43.2	52.5	44.6

Remark: All the above monitoring parameters are within the limit.