

## COMPLIANCE OF ENVIRONMENTAL CLEARANCE

The Environmental Clearance was granted for the proposed plant by the Ministry of Environment & Forest, New Delhi vide F. No. J-11011/166/2007-IA-II (I) dated 10.11.2008.

SI	CONDITION	COMPLIANCE/ STATUS (01.04.2020 to 30.09.2020)
<b>A.</b>	<b>SPECIFIC CONDITIONS:</b>	
i)	On-line stack monitoring facilities for all the stacks shall be provided and sufficient air pollution control methods viz Electrostatic precipitator (ESP) to CPP & DRI plant and bag filters to material transfer points to keep the emission levels below 100 mg/Nm <sup>3</sup> and reports submitted to the Ministry's Regional Office at Bhubaneshwar, Jharkhand PCB & CPCB.	Green belt, plantation, Water sprinklers and bag filters installed to control fugitive emission and reduce PM levels in AAQ. On-line system installed in DRI and CPP, with data transmission to JSPCB and CPCB. ESP in the DRI Kiln-WHRB and Bag filters in various sections of sponge iron unit and combination of dust catcher – fixed water sprinklers installed in the handling section to meet the prescribed standards. ESP in the CPP-AFBC and Bag filters in various sections of CPP installed in the handling section to meet the prescribed standards.
ii)	The company shall install AFBC & waste heat recovery based power plant simultaneously with DRI plant.	Captive power plant of 20 MW (WHRB & AFBC) with all APCS installed simultaneously with the DRI plant and put in operation based on WHRB and AFBC based on Coal & Dolochar.
iii)	In-plant control measures for checking fugitive emissions From all the vulnerable sources shall be provided. Dust extraction system with bag filters shall be provided at material handling areas, crushers, hoppers, transfer points etc. All the conveyors shall be covered with GI sheets to prevent fugitive emissions. Further, specific measures like water sprinkling around the coal stockpiles and asphaltting or concreting of the roads shall be done to control fugitive emissions.	Fixed type water sprinklers in various sections and bag filters installed to control fugitive emission from - material transfer points, coal and raw material handling section, intermediate bin, cooler discharge, stock house etc. All the conveyors covered with GI sheets to prevent fugitive emissions. Pucca road with Boulder soling and stone chips lining work is under process in DRI and CPP area. About 100 m road completed. Fixed type water sprinkler for dust suppression provided. Fugitive emissions regularly monitored as per norms.
iv)	The emissions from the plant shall be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414(E) dated 30 <sup>th</sup> May, 2008 and regular monitoring reports shall be submitted to the Ministry's Regional Office at Bhubaneshwar, Jharkhand PCB & CPCB.	The emissions from the plant controlled within the latest permissible limits by use of ESP, Bag Filters and water sprinklers. Regular water sprinkling is done to minimize the fugitive emissions. Plantation continued at the site. Copy of latest fugitive monitoring reports enclosed as <b>Annexure – 1.</b>
v)	The raw material transportation shall be by covered means and impact on surrounding environment due to vehicular movement shall be minimized.	All the raw materials transported in covered trucks respectively and not overloaded. Pollution Under Control (PUC) certificate for Vehicular emissions regularly monitored for all vehicles including trucks entering the premises – some of the PUC copies attached. Road leading to the site has been made pucca.

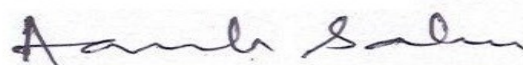
**For Brahmaputra Metallics Limited**



**Director**

vi)	<p>Total ground water requirement shall not exceed 70 M<sup>3</sup>/hr and copy of permission for drawl of the ground water shall be submitted to Ministry's Regional Office at Bhubaneswar.</p> <p>No wastewater shall be discharged outside the factory Premises and 'Zero' discharge shall be adopted.</p>	<p>Permission for withdrawal of 765 m<sup>3</sup>/day ground water obtained from CGWA, New Delhi vide letter No. 21-4(23)/MER/ CGWA/2008-2049 dated 15.02.2009. Copy of the same submitted with earlier compliance. Application for renewal of permission for 290 m<sup>3</sup>/day ground water for domestic use has been submitted. &amp; received the NOC for the same. <b>Annexure – 2a</b></p> <p>Balance requirement of industrial water will be met from surface water. Permission for surface water withdrawal from DVRRC attached as <b>Annexure – 2b</b>.</p> <p>No wastewater discharged outside the factory premises. Treated water partly recycled/reused balance used for horticulture and sprinkling.</p>
vii)	<p>All the char from DRI plant shall be utilized in AFBC boiler of power plant and no char shall be disposed off anywhere else.</p>	<p>Captive power plant AFBC installed simultaneously to use the char generated on operation of the DRI total char generated is utilized in AFBC Boiler. No char disposed any where else.</p>
viii)	<p>The fly ash generated from the plant shall be disposed off as per the provision of Fly Ash Notification, 1999 and amended up to date.</p>	<p>Fly ash generated from the plant disposed off as per the provision. Presently being disposed for Road construction work through the contractor. It is also consumed in house for Fly ash brick manufacturing. Copy of Fly ash balance sheet <b>Annexure – 3</b>.</p>
ix)	<p>The green belt shall be developed in 33% area of the total land available with the plant as per the CPCB guidelines in consultation with local DFO.</p>	<p>Plantation of local species trees started and continued simultaneously with construction activity. Plantation done in the vacant area. Total of 20108 Saplings planted over an area of 32 acres. Photographs of same enclosed as <b>Annexure - 4</b></p>
x)	<p>All recommendations made in the Corporate Responsibility for Environment Protection (CREP) for steel plants and power plants shall be implemented.</p>	<p>Facilities/equipments necessary for compliance of CREP of steel &amp; power plant have been included in the project. All provisions being complied.</p>
xi)	<p>The company shall employ at least one agriculture officer to assess the impact of air pollution on crops and surrounding fields.</p>	<p>Agriculture officer has been appointed and is looking after the CSR activities and helping in the agricultural need of the locals.</p>
xii)	<p>Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.</p>	<p>Sanitation, drinking water and creche facility for working hours are being provided to the workers. Housing facilities not required only local people are employed.</p>
<b>B.</b>	<b>GENERAL CONDITIONS:</b>	
i)	<p>The project authorities shall strictly adhere to the stipulations made by the Jharkhand Pollution Control Board and any other government body.</p>	<p>NOC obtained from JSPCB and other mandatory departments. All the directions are being complied strictly as per <b>Annexure – A</b>. Consent to operate obtained from JSPCB regularly.</p>

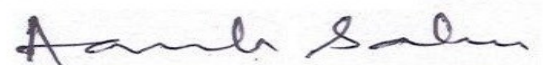
For Brahmaputra Metallics Limited



Director

ii)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required. if any.	No further expansion or modifications in the plant carried out without prior approval of the Ministry of Environment and Forests, New Delhi and JSPCB. Environmental Clearance for expansion obtained from Ministry of Environment & Forest, New Delhi vide F. No. J-11011/285/2008-IA-II(I) dated 29.03.2011 and extension of validity vide letter dated 15.06.2018.
iii)	The gaseous emissions from various process units shall conform to the load/mass based standards notified by this Ministry on 19 <sup>th</sup> 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. At no time. The emission level shall go beyond the prescribed standards. Interlocking facilities shall be provided so that process can be automatically stopped in case emission level exceeds the limit.	At no time the emission level allowed to go beyond the prescribed standards. Online monitoring system provided for the process as per available technology.
iv)	At least four ambient air quality monitoring stations shall be established in the downward direction as well as where maximum ground level concentration of SPM, SO <sub>2</sub> and NO <sub>x</sub> 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 Bangalore and the SPCB/CPCB once in six months.	All monitoring as prescribed followed. Copy of latest monitoring reports enclosed as <b>Annexure - 1</b>
v)	The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules. 1989 as amended in October, 1994 and January. 2000. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Provisions are strictly complied. Authorization from the SPCB obtained for collection, storage, and disposal of hazardous wastes.
vi)	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the State Pollution Control Board must be obtained for collection / disposal of hazardous wastes.	Provisions are strictly complied. Authorization from the SPCB obtained for collection, storage, and disposal of hazardous wastes.
vii)	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 shall conform to the standards prescribed under Environment (Protection) Act 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).	The overall noise levels in and around the plant is being kept well within the standards by providing noise control measures. Noise monitoring attached along with.

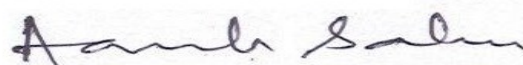
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viii)	The company shall develop rain water harvesting structures to harvest the rain water for utilization in the lean season besides recharging the ground water table.	Rain water harvesting plan has been developed and implemented for the plant. 2 RWH pits as approved by Ground Water Directorate, Govt. of Jharkhand implemented within premises. Efforts being made to make use of rain water harvested to the maximum extent. Improvement of RWH plan with 2 nos. collection pond and additional recharge pits is designed but progress of implementation stalled due to Covid 19, will be implemented before the onset of next monsoon
ix)	Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Pre-employment health check-up of employees done. Regular (annual) occupational health surveillance followed as per Factories Act.
x)	The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA/EMP report.	The environment protection measures recommended in the EIA/EMP is being strictly followed. Copy of updated EMP expenditure enclosed as <b>Annexure - 5</b>
xi)	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.	Environment management cell established to function independently. NABL accredited Environmental laboratory engaged for monitoring.
xii)	The implementation of the project vis-a-vis environmental action plans shall be monitored by Ministry's Regional Office / SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.	Six monthly compliance reports submitted to the concerned authority for period October-March in month of June and period April – September in month of December every year.
xiii)	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 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 shall be forwarded to the Ministry's Regional Office.	Information to 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 has been published in Prabhat Khabar (hindi) and Times of India dated December 7, 2008.  Copies of the Newspaper cuttings already submitted.
xiv)	The 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 start of the project.	The source of funds finalized. Project has been sanctioned by consortium of SBI, Bank of Baroda, PNB & S.B.B.J on 08.08.2009.  Letters already submitted

For Brahmaputra Metallics Limited



Director



# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/A/01 Report No.: VEL/A/2009/12/001  
Name & Address of the Party: M/s Brahmaputra Metallics Ltd. Format No.: 7.8 F-01  
Village- Kamta, Block- Gola, Party Reference No.: NIL  
Distt.-Ramgarh, Jharkhand Reporting Date: 18/09/2020  
Latitude: 23° 31' 52.39"N Period of Analysis: 12/09/2020 - 17/09/2020  
Longitude: 85° 41' 48.67"E Receipt Date: 12/09/2020

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Near Reservoir  
Instrument Used : RDS & FPS sampler with all Accessories  
Instrument Code : VEL/RDS/04 & VEL/FPS/04  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/09/2020 to 11/09/2020  
Time of Monitoring : 09:00 AM - 09:00 AM  
Ambient Temperature (°C) : Min. 29.0 °C Max. 40.0 °C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No  
Sampling & Analysis Protocol : IS-5182  
Parameter Required : As per client requirement.

S. No.	Parameter	Protocol	Result	Unit	NAAQS <sup>®</sup> Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	48.14	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	87.35	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	23.18	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	10.56	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography	0.83	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS: 11255 (P-6) Indo Phenol Blue Method	9.12	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 0.05 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	1
8.	Benzene (C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11)	**BDL (*DL 0.1 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12)	**BDL (*DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9) Colorimetric Method	23.86	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/m <sup>3</sup>	IS: 5182 (P-22)	**BDL (*DL 5.0ng/m <sup>3</sup> )	ng/m <sup>3</sup>	6
12.	Nickel Ni, ng/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 5.0ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20

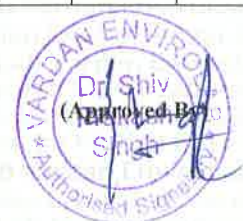
Note: - @ NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]18.11.2009.  
# SOP- Laboratory Standard Operating Procedure., \*\*BDL- Below Detection Limit, \*DL- Detection Limit

KOMAL SINGH  
ANALYST

ARJUN RAWAT  
Checked By

For Brahmaputra Metallics Limited

Aank Salun  
Director



NOTE: a) The results listed refer only to the tested samples & applicable parameters  
b) Total liabilities of our lab will be restricted to the invoice amount only  
c) The sample will be destroyed after retention time unless otherwise specified  
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/BML/A/02	Report No.:	VEL/A/2009/12/002
Name & Address of the Party:	M/s Brahmaputra Metalics Ltd. Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand	Format No.:	7.8 F-01
Latitude:	23° 31' 26.44"N	Party Reference No.:	NIL
Longitude:	85° 42' 13.01"E	Reporting Date:	18/09/2020
		Period of Analysis:	12/09/2020 - 17/09/2020
		Receipt Date:	12/09/2020

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Sampling Location	: Near Main Gate
Instrument Used	: RDS & FPS sampler with all Accessories
Instrument Code	: VEL/RDS/05 & VEL/FPS/05
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Date of Monitoring	: 10/09/2020 to 11/09/2020
Time of Monitoring	: 09:30AM – 09:30 AM
Ambient Temperature (°C)	: Min. 29.0 °C Max. 40.0°C
Surrounding Activity	: Human & Vehicular Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As per client requirement.

S. No.	Parameter	Protocol	Result	Unit	NAAQS <sup>@</sup> Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	52.87	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	93.65	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	26.80	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	12.26	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography	0.95	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6) Indo Phenol Blue Method	13.75	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 0.05 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	1
8.	Benzene(C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11)	**BDL (*DL 0.1 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12)	**BDL (*DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9) Colorimetric Method	27.89	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/m <sup>3</sup>	IS: 5182 (P-22)	**BDL (*DL 5.0ng/m <sup>3</sup> )	ng/m <sup>3</sup>	6
12.	Nickel Ni, ng/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 5.0ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20

Note :- @ NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]18.11.2009.  
# SOP- Laboratory Standard Operating Procedure., \*\*BDL- Below Detection Limit, \*DL- Detection Limit

**KOMAL SINGH**

ANALYST  
(Checked By)

**ARJUN RAWAT**

(Checked By)

For Brahmaputra Metalics Limited

Director



NOTE: a) The results listed refer only to the tested samples & applicable parameters  
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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/A/03  
Name & Address of the Party: M/s Brahmaputra Metalics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
Latitude: 23° 31' 39.53"N  
Longitude: 85° 41' 54.24"E

Report No.: VEL/A/2009/12/003  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 - 17/09/2020  
Receipt Date: 12/09/2020

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Near Office  
Instrument Used : RDS & FPS sampler with all Accessories  
Instrument Code : VEL/RDS/06 & VEL/FPS/06  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/09/2020 to 11/09/2020  
Time of Monitoring : 09:45AM -09:45AM  
Ambient Temperature (°C) : Min. 29.0 °C Max. 40.0°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No  
Sampling & Analysis Protocol : IS-5182  
Parameter Required : As per client requirement.

S. No.	Parameter	Protocol	Result	Unit	NAAQS <sup>@</sup> Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	50.96	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	89.79	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	24.68	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	9.86	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography	0.87	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6) Indo Phenol Blue Method	11.45	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 0.05 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	1
8.	Benzene(C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11)	**BDL (*DL 0.1 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12)	**BDL (*DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9) Colorimetric Method	23.46	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/ m <sup>3</sup>	IS: 5182 (P-22)	**BDL (*DL 5.0ng/ m <sup>3</sup> )	ng/ m <sup>3</sup>	6
12.	Nickel Ni, ng/ m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 5.0ng/ m <sup>3</sup> )	ng/ m <sup>3</sup>	20

Note :- @ NAAQS - National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]18.11.2009.  
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NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/A/04  
Name & Address of the Party: M/s Brahmaputra Metalics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
Latitude: 23° 31' 44.61"N  
Longitude: 85° 41' 57.87"E  
Report No.: VEL/A/2009/12/004  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 - 17/09/2020  
Receipt Date: 12/09/2020

Sample Description: AMBIENT AIR QUALITY MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Sampling Location : Near Klin Area  
Instrument Used : RDS & FPS sampler with all Accessories  
Instrument Code : VEL/RDS/07 & VEL/FPS/07  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/09/2020 to 11/09/2020  
Time of Monitoring : 10:05 AM – 10:05 AM  
Ambient Temperature (°C) : Min. 29.0 °C Max. 40.0°C  
Surrounding Activity : Human & Vehicular Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No  
Sampling & Analysis Protocol : IS-5182  
Parameter Required : As per client requirement.

S. No.	Parameter	Protocol	Result	Unit	NAAQS <sup>®</sup> Limit
1.	Particulate Matter (PM <sub>2.5</sub> )	#SOP No. VEL/SOP/01, Section No. SP 63	51.82	µg/m <sup>3</sup>	60
2.	Particulate Matter (PM <sub>10</sub> )	IS: 5182 (P-23) Gravimetric Method	92.16	µg/m <sup>3</sup>	100
3.	Nitrogen Dioxide (NO <sub>2</sub> )	IS: 5182 (P-6) Jacob & Hochheiser	25.68	µg/m <sup>3</sup>	80
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS: 5182 (P-2) Modified West and Gaeke	9.45	µg/m <sup>3</sup>	80
5.	Carbon Monoxide (CO)	IS: 5182 (P-10) Gas Chromatography	0.96	mg/m <sup>3</sup>	4
6.	Ammonia (NH <sub>3</sub> ), µg/m <sup>3</sup>	IS:11255(P-6) Indo Phenol Blue Method	12.53	µg/m <sup>3</sup>	400
7.	Lead (Pb), µg/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 0.05 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	1
8.	Benzene(C <sub>6</sub> H <sub>6</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-11)	**BDL (*DL 0.1 µg/m <sup>3</sup> )	µg/m <sup>3</sup>	05
9.	Benzo(a)pyrene, ng/m <sup>3</sup>	IS: 5182 (P-12)	**BDL (*DL 1.0 ng/m <sup>3</sup> )	ng/m <sup>3</sup>	01
10.	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	IS: 5182 (P-9) Colorimetric Method	24.80	µg/m <sup>3</sup>	180
11.	Arsenic As, ng/m <sup>3</sup>	IS: 5182 (P-22)	**BDL (*DL 5.0ng/m <sup>3</sup> )	ng/m <sup>3</sup>	6
12.	Nickel Ni, ng/m <sup>3</sup>	IS: 5182 (P-22) Air Acetylene Method	**BDL (*DL 5.0ng/m <sup>3</sup> )	ng/m <sup>3</sup>	20

Note :- @ NAAQS – National Ambient Air Quality Standards; Schedule-VII, [Rule 3 (3B)], [Part-II-sec.-3(i)]18.11.2009.  
# SOP- Laboratory Standard Operating Procedure., \*\*BDL- Below Detection Limit, \*DL- Detection Limit

KOMAL SINGH  
ANALYST  
(Checked By)

ARJUN RAWAT  
(Checked By)

For Brahmaputra Metalics Limited

Aashu Salun  
Director



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/AN/01  
Name & Address of Party: M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
Latitude: 23° 31' 52.39"N  
Longitude: 85° 41' 48.67"E  
Report No.: VEL/AN/2009/12/001  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 - 17/09/2020  
Receipt Date: 12/09/2020  
Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Near Reservoir  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/S/SLM/01  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/09/2020 - 11/09/2020  
Time of Monitoring : 06:00 AM to 06:00AM  
Surrounding Activity : Human , Vehicular & Other Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No any  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989	78.6	58.3	dB(A)
2.	$L_{min}$	IS 9989	53.8	45.1	dB(A)
3.	$L_{eq}$	IS 9989	69.10	51.62	dB(A)
4.	CPCB Limits in dB(A)* Leq (Industrial Area)	-	75.00	70.00	dB(A)

Note \* A "decibel" is a unit in which noise is measured.

ARUN KUMAR

ANALYST  
(Tested By)

AR. II IN RAWAT

(Checked By)

For Brahmaputra Metallics Limited

Director



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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/AN/02  
Name & Address of Party: M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
Latitude: 23° 31' 26.44"N  
Longitude: 85° 42' 13.01"E  
Report No.: VEL/AN/2009/12/002  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 - 17/09/2020  
Receipt Date: 12/09/2020  
Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Near Main Gate  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/S/SLM/02  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/09/2020 - 11/09/2020  
Time of Monitoring : 06:00 AM to 06:00 AM  
Surrounding Activity : Human , Vehicular & Other Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No any  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989	78.4	67.1	dB(A)
2.	$L_{min}$	IS 9989	65.5	44.7	dB(A)
3.	$L_{eq}$	IS 9989	71.42	53.48	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area)	-	75.00	70.00	dB(A)

Note \* A "decibel" is a unit in which noise is measured.

ARUN KUMAR  
Arun Kumar  
(Tested By)

ARJUN RAWAT  
Checked By  
Arjun Rawat



For Brahmaputra Metallics Limited

Aradh Sahu  
Director

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# Vardan EnviroLab

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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/BML/AN/03  
**Name & Address of Party:** M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
**Latitude:** 23° 31' 39.53"N  
**Longitude:** 85° 41' 54.24"E  
**Report No.:** VEL/AN/2009/12/003  
**Format No.:** 7.8 F-01  
**Party Reference No.:** NIL  
**Reporting Date:** 18/09/2020  
**Period of Analysis:** 12/09/2020 - 17/09/2020  
**Receipt Date:** 12/09/2020  
**Sample Description:** AMBIENT NOISE LEVEL MONITORING

### General Information:-

**Sample collected by** : Vardan EnviroLab Representative  
**Sampling Location** : Near Office  
**Instrument Used** : Sound Level Meter  
**Instrument Code** : VEL/S/SLM/03  
**Instrument Calibration Status** : Calibrated  
**Meteorological condition during monitoring** : Clear Sky  
**Date of Monitoring** : 10/09/2020 - 11/09/2020  
**Time of Monitoring** : 06:00 AM to 06:00AM  
**Surrounding Activity** : Human , Vehicular & Other Activities  
**Scope of Monitoring** : Regulatory Requirement  
**Control measure if Any** : No any  
**Sampling & Analysis Protocol** : IS-9989  
**Sampling Duration** : 24 Hours  
**Parameter Required** : As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	$L_{max}$	IS 9989	78.3	66.2	dB(A)
2.	$L_{min}$	IS 9989	63.5	52.7	dB(A)
3.	$L_{eq}$	IS 9989	71.25	61.74	dB(A)
4.	CPCB Limits in dB(A*) Leq (Industrial Area)	-	75.00	70.00	dB(A)

Note \* A "decibel" is a unit in which noise is measured.

ARUN KUMAR  
Arun Kumar  
(Tested By)

ARJUN RAWAT  
Arjun Rawat  
(Checked By)



For Brahmaputra Metallics Limited

Aankh Salun  
Director

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# Vardan EnviroLab

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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/AN/04  
Name & Address of Party: M/s Brahmaputra Metalics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
Latitude: 23° 31' 44.61"N  
Longitude: 85° 41' 57.87"E  
Report No.: VEL/AN/2009/12/004  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 - 17/09/2020  
Receipt Date: 12/09/2020  
Sample Description: AMBIENT NOISE LEVEL MONITORING

### General Information:-

Sample collected by : Vardan EnviroLab Representative  
Sampling Location : Near Klin Area  
Instrument Used : Sound Level Meter  
Instrument Code : VEL/S/SLM/04  
Instrument Calibration Status : Calibrated  
Meteorological condition during monitoring : Clear Sky  
Date of Monitoring : 10/09/2020 - 11/09/2020  
Time of Monitoring : 06:00 AM to 06:00AM  
Surrounding Activity : Human , Vehicular & Other Activities  
Scope of Monitoring : Regulatory Requirement  
Control measure if Any : No any  
Sampling & Analysis Protocol : IS-9989  
Sampling Duration : 24 Hours  
Parameter Required : As per Work Order

S. No.	Parameters	Protocol	Test Result dB (A)		Unit
			Day Time (6:00 am to 10:00 pm)	Night Time (10:00 pm to 06:00 am)	
1.	L <sub>max</sub>	IS 9989	74.9	57.1	dB(A)
2.	L <sub>min</sub>	IS 9989	56.7	44.6	dB(A)
3.	L <sub>eq</sub>	IS 9989	67.30	51.36	dB(A)
4.	CPCB Limits in dB(A) Leq (Industrial Area)	-	75.00	70.00	dB(A)

Note \* A "decibel" is a unit in which noise is measured.

ARUN KUMAR  
ANALYST  
(Tested By)

ARJUN RAWAT  
(Checked By)



For Brahmaputra Metalics Limited

*[Signature]*  
Director

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# Vardan EnviroLab

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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
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## Test Report

Sample Number: VEL/BML/ST/01  
Name & Address of Party: M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand  
Latitude: 23° 31' 40.79"N  
Longitude: 85° 41' 56.78"E  
Report No.: VEL/ST/2009/12/001  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 – 17/09/2020  
Receipt Date: 12/09/2020

Sample Description: STACK EMISSION MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Date of Sampling : 10/09/2020  
Sampling Location : DG Set Area  
Sampling Duration (Minutes) : 34.0  
Name of the Plant : DRI Klin (8 MW)  
Stack Attached to : DRI Klin  
Make of Stack : Iron  
Metrological Condition : Clear Sky  
Instrument Used : Stack monitoring Kit  
Control Measure : ESP  
Instrument Calibration Status : Calibrated  
Diameter of Stack : 3.97 meter  
Height of Stack (m) : 69 meter  
Ambient Temperature-Ta (°C) : 40.0  
Temperature of Stack Gases-Ts (°C) : 163.0  
Velocity of Stack Gases (m/sec.) : 9.38  
Flow rate of PM (LPM) : 25.0  
Flow rate of Gas (LPM) : 2.0  
Sampling Condition : Isokinetic  
Protocol Used : IS :11255

S. No.	Parameter	Protocol	Result	Unit
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	42.68	mg/Nm <sup>3</sup>
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7) Colorimetric Method	25.12	mg/Nm <sup>3</sup>
3.	Carbon Dioxide (as CO <sub>2</sub> )	By Gas Chromatography Method	6.10	%
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (P-2) Titrimetric Method	48.63	mg/Nm <sup>3</sup>

**KOMAL SINGH**  
ANALYST

(Tested By)

**ARJUN RAWAT**

(Checked By)



For Brahmaputra Metallics Limited

*Aarsh Salu*  
Director

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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/ST/02  
Name & Address of Party: M/s Brahmaputra Metalics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand

Report No.: VEL/ST/2009/12/002  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 – 17/09/2020  
Receipt Date: 12/09/2020

Latitude: 23° 31' 41.06"N  
Longitude: 85° 41' 56.11"E

Sample Description: STACK EMISSION MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Date of Sampling : 10/09/2020  
Sampling Location : DG Set Area  
Sampling Duration (Minutes) : 34.0  
Name of the Plant : Power Stack (10 MW)  
Stack Attached to : Power Stack  
Make of Stack : Iron  
Metrological Condition : Clear Sky  
Instrument Used : Stack monitoring Kit  
Control Measure : ESP  
Instrument Calibration Status : Calibrated  
Diameter of Stack : 3.97 meter  
Height of Stack (m) : 71 meter  
Ambient Temperature-Ta (°C) : 40.0  
Temperature of Stack Gases-Ts (°C) : 172.0  
Velocity of Stack Gases (m/sec.) : 9.51  
Flow rate of PM (LPM) : 23.0  
Flow rate of Gas (LPM) : 2.0  
Sampling Condition : Isokinetic  
Protocol Used : IS :11255

S. No.	Parameter	Protocol	Result	Unit
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	44.85	mg/Nm <sup>3</sup>
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7) Colorimetric Method	23.41	mg/Nm <sup>3</sup>
3.	Carbon Dioxide (as CO <sub>2</sub> )	By Gas Chromatography Method	5.80	%
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (P-7) Titrimetric Method	53.16	mg/Nm <sup>3</sup>

**KOMAL SINGH**

ANALYST

(Tested By)

**ARJUN RAWAT**

(Checked By)



For Brahmaputra Metalics Limited

*Aashu Salun*  
Director

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# Vardan EnviroLab

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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number: VEL/BML/ST/03  
Name & Address of Party: M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand

Latitude: 23° 31' 38.19"N  
Longitude: 85° 41' 56.78"E

Report No.: VEL/ST/2009/12/003  
Format No.: 7.8 F-01  
Party Reference No.: NIL  
Reporting Date: 18/09/2020  
Period of Analysis: 12/09/2020 – 17/09/2020  
Receipt Date: 12/09/2020

Sample Description: STACK EMISSION MONITORING

### General Information:-

Sample collected by : Vardan Enviro Lab Representative  
Date of Sampling : 10/09/2020  
Sampling Location : DG Set Area  
Sampling Duration (Minutes) : 32.0  
Name of the Plant : Steel Melting Shop Stack  
Stack Attached to : Steel Melting Shop Stack  
Make of Stack : Iron  
Metrological Condition : Clear Sky  
Instrument Used : Stack monitoring Kit  
Control Measure : ESP  
Instrument Calibration Status : Calibrated  
Diameter of Stack : 1.5 meter  
Height of Stack (m) : 30 meter  
Ambient Temperature-Ta (°C) : 40.0  
Temperature of Stack Gases-Ts (°C) : 169.0  
Velocity of Stack Gases (m/sec.) : 8.76  
Flow rate of PM (LPM) : 24.0  
Flow rate of Gas (LPM) : 2.0  
Sampling Condition : Isokinetic  
Protocol Used : IS :11255

S. No.	Parameter	Protocol	Result	Unit
1.	Particulate Matter (PM)	IS 11255 (P-1) Gravimetric Method	32.86	mg/Nm <sup>3</sup>
2.	Nitrogen Dioxide (as NO <sub>2</sub> )	IS 11255 (P-7) Colorimetric Method	23.47	mg/Nm <sup>3</sup>
3.	Carbon Dioxide (as CO <sub>2</sub> )	By Gas Chromatography Method	1.89	%
4.	Sulphur Dioxide (SO <sub>2</sub> )	IS 11255 (P-7) Titrimetric Method	47.75	mg/Nm <sup>3</sup>

**KOMAL SINGH**

ANALYST  
(Tested By)

**ARJUN RAWAT**

(Checked By)



For Brahmaputra Metallics Limited

*Amb Salu*

Director

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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/BML/A/01	Report No.:	VEL/F/2009/12/001
Name & Address of the Project:	M/s Brahmaputra Metallics Ltd. Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand	Format No.:	7.8 F-01
Latitude:	23° 31' 40.79"N	Party Reference No.:	NIL
Longitude:	85° 41' 56.78"E	Reporting Date:	18/09/2020
		Period of Analysis:	12/09/2020 – 17/09/2020
		Receive Date:	12/09/2020

### FUGITIVE DUST MONITORING REPORT

#### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Instrument Used	: RDS with all Accessories
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Ambient Temperature (°C)	: Min. 29°C Max. 40°C
Surrounding Activity	: Human, Vehicular, & Other Plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As Per Client Requirement

S. No.	Location	Date of Sampling	Protocol	SPM (µg/m <sup>3</sup> )
1.	DRI- Raw Material Section	11/09/2020	IS: 5182 (P-23), 2006	258.60

**KOMAL SINGH**  
ANALYST

(Tested By)

**ARJUN RAWAT**

(Checked By)



For Brahmaputra Metallics Limited

Director

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# Vardan EnviroLab

Laboratory: Plot No. 82A, Sector - 5, IMT Manesar, Gurugram - 122052, Haryana  
Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/BML/A/02	Report No.:	VEL/F/2009/12/002
Name & Address of the Project:	M/s Brahmaputra Metalics Ltd. Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand	Format No.:	7.8 F-01
Latitude:	23° 31' 41.06"N	Party Reference No.:	NIL
Longitude:	85° 41' 56.11"E	Reporting Date:	18/09/2020
		Period of Analysis:	12/09/2020 – 17/09/2020
		Receipt Date:	12/09/2020

### FUGITIVE DUST MONITORING REPORT

#### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Instrument Used	: RDS with all Accessories
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Ambient Temperature (°C)	: Min. 29°C Max. 40°C
Surrounding Activity	: Human , Vehicular, & Other Plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As Per Client Requirement

S. No.	Location	Date of Sampling	Protocol	SPM (µg/m3)
1.	CPP- Near CHP Area	11/09/2020	IS: 5182 (P-23), 2006	275.50

**KOMAL SINGH**

(Tested By)

**ARJUN RAWAT**

(Checked By)



For Brahmaputra Metalics Limited

*Aashu Sahu*  
Director

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NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

Sample Number:	VEL/BML/A/03	Report No.:	VEL/F/2009/12/003
Name & Address of the Project:	M/s Brahmaputra Metallics Ltd. Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand	Format No.:	7.8 F-01
Latitude:	23° 31' 38.19"N	Party Reference No.:	NIL
Longitude:	85° 41' 56.78"E	Reporting Date:	18/09/2020
		Period of Analysis:	12/09/2020 – 17/09/2020
		Receipt Date:	12/09/2020

### FUGITIVE DUST MONITORING REPORT

#### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Instrument Used	: RDS with all Accessories
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Ambient Temperature (°C)	: Min. 29°C Max. 40°C
Surrounding Activity	: Human, Vehicular, & Other Plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As Per Client Requirement

S. No.	Location	Date of Sampling	Protocol	SPM (µg/m <sup>3</sup> )
1.	SMS- Near Billet Storage Yard	11/09/2020	IS: 5182 (P-23), 2006	246.80

**KOMAL SINGH**

ANALYST  
(Tested By)

**ARJUN RAWAT**

(Checked By)



For Brahmaputra Metallics Limited

*Aashu Salu*  
Director

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## Test Report

Sample Number:	VEL/BML/A/04	Report No.:	VEL/F/2009/12/004
Name & Address of the Project:	M/s Brahmaputra Metallics Ltd. Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand	Format No.:	7.8 F-01
Latitude:	23° 31' 48.34"N	Party Reference No.:	NIL
Longitude:	85° 41' 51.23"E	Reporting Date:	18/09/2020
		Period of Analysis:	12/09/2020 – 17/09/2020
		Receipt Date:	12/09/2020

## FUGITIVE DUST MONITORING REPORT

### General Information:-

Sample collected by	: Vardan Enviro Lab Representative
Instrument Used	: RDS with all Accessories
Instrument Calibration Status	: Calibrated
Meteorological condition during monitoring	: Clear Sky
Ambient Temperature (°C)	: Min. 29°C Max. 40°C
Surrounding Activity	: Human, Vehicular, & Other Plant Activities
Scope of Monitoring	: Regulatory Requirement
Control measure if Any	: No
Sampling & Analysis Protocol	: IS-5182
Parameter Required	: As Per Client Requirement

S. No.	Location	Date of Sampling	Protocol	SPM (µg/m <sup>3</sup> )
1.	FLY Ash Bricks Plant Near Material Section	11/09/2020	IS: 5182 (P-23), 2006	259.42

**KOMAL SINGH**  
ANALYST  
(Tested By)

**ARJUN RAWAT**  
(Checked By)



For Brahmaputra Metallics Limited

*Amb Salu*  
Director

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## Test Report

**Sample Number:** VEL/BML/W/01  
**Name & Address of Party:** M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand

**Report No.:** VEL/W/2009/12/001  
**Format No.:** 7.8 F-01  
**Party Reference No.:** Nil  
**Reporting Date:** 18/09/2020

**Sample Description:** Borewell Water Sample  
**Sample Location:** Near Intake Water Tank  
**Sample Collected by:** Vardan Enviro Lab Representative  
**Parameter Required:** As per Client Requirement  
**Sampling & Analysis Protocol:** IS-10500,APHA  
**Period of Analysis:** 12/09/2020 – 17/09/2020  
**Receipt Date:** 12/09/2020  
**Date of Sampling:** 11/09/2020  
**Preservation:** Refrigerated  
**Sampling Type:** Grab  
**Latitude:** 23° 31' 50.28"E  
**Longitude:** 85° 41' 47.67"E  
**Sample Quantity:** 2.0 Ltr.

S. No.	Parameter	Test-Method	Result	Unit	Limits of IS:10500 -2012	
					Requirement (Acceptable Limit)	Permissible limit in the Absence of Alternate Source
1.	pH (at 25 °C)	APHA ,4500-H <sup>+</sup> B Electrometric Method	7.43	--	6.5 to 8.5	No Relaxation
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen	5	15
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0. 1 NTU)	NTU	1	5
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--	Agreeable	Agreeable
5.	Taste	APHA , 2160 B, Threshold Test Method	Agreeable	--	Agreeable	Agreeable
6.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	150.00	mg/l	200	600
7.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	40.79	mg/l	75	200
8.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	162.05	mg/l	200	600
9.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	32.15	mg/l	250	1000
10.	#Cyanide as CN	APHA , 4500 CN <sup>-</sup> D	*BDL(**DL 0.02 mg/l)	mg/l	0.05	No Relaxation
11.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	11.72	mg/l	30	100
12.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	341.00	mg/l	500	2000
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	10.19	mg/l	200	400
14.	Fluoride as F	APHA , 4500-F <sup>-</sup> D, SPADNS Method	0.65	mg/l	1.0	1.5
15.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	5.61	mg/l	45	No Relaxation
16.	Iron as Fe	APHA , 3500-Fe B I,10 Phenanthroline Method	0.12	mg/l	0.3	No relaxation
17.	Aluminium as Al	APHA , 3111 D Nitrous Oxide Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.03	0.2
18.	Boron	APHA, 4500B C, Carmine Method	*BDL(**DL 0.1 mg/l)	mg/l	0.5	1
19.	Total Chromium as Cr	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	No Relaxation

ANKITA SINGH  
ANALYST  
(Tested By)

ARJUN RAWAT  
(Checked By)



For Brahmaputra Metallics Limited  
Aankh Sahu  
Director

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## Test Report

Sample No.: VEL/BML/W/01					Report No: VEL/W/2009/12/001	
S. No	Parameter	Test-Method	Result	Unit	Limits of IS:10500-2012	
					Requirement (Acceptable) Limit	Permissible limit in the Absence of Alternate Source
20.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l	0.001	0.002
21.	#Mineral Oil	Clause 6 of IS:3025(Part 39)	*BDL(**DL 0.01mg/l)	mg/l	0.5	No Relaxation
22.	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l	0.2	1.0
23.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.68	mg/l	5	15
24.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l	0.05	1.5
25.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l	0.1	0.3
26.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l	0.003	No Relaxation
27.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l	0.01	No Relaxation
28.	Selenium as Se	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	No Relaxation
29.	Arsenic as As	APHA, 3114 B, Manual Hydride Generation	*BDL(**DL 0.01 mg/l)	mg/l	0.01	0.05
30.	Mercury as Hg	APHA, 3112 B, Cold Vapour AAS Method	*BDL (**DL 0.001 mg/l)	mg/l	0.001	No Relaxation
31.	Total Coliform	IS 1622	< 2	MPN/100ml	Shall not be detectable in any 100 ml sample	
32.	E. Coli	IS 1622	Absent	MPN/100ml	Shall not be detectable in any 100 ml sample	

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit. #These parameter are not covered in our NABL scope.

ANKITA SINGH  
ANALYST  
(Tested By)  
*Aswini*

ARJUN RAWAT  
(Checked By)  
*Arjun Rawat*

For Brahmputra Metalics Limited

*Anand Salun*  
Director



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## Test Report

Sample Number:	VEL/BML/W/02	Report No.:	VEL/W/2009/12/002
Name & Address of Party:	M/s Brahmaputra Metallics Ltd. Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand	Format No.:	7.8 F-01
Sample Description:	Surface Water sample	Party Reference No.:	Nil
Sample Location:	Bhera River, (Upstream)	Reporting Date:	18/09/2020
Sample Collected by:	Vardan Enviro Lab Representative	Period of Analysis:	12/09/2020 – 17/09/2020
Parameter Required	As per Client Requirement	Receipt Date:	12/09/2020
Sampling & Analysis Protocol:	IS-10500, APHA	Date of Sampling:	11/09/2020
Latitude:	23° 31' 55.35"E	Preservation:	Refrigerated
Longitude:	85° 41' 44.42"E	Sampling Type:	Grab
		Sample Quantity:	2.0 Ltr.

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA ,4500-H <sup>+</sup> B Electrometric Method	7.62	--
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0. 1 NTU)	NTU
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	82.00	mg/l
6.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	28.65	mg/l
7.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	98.79	mg/l
8.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	40.17	mg/l
9.	#Cyanide as CN	APHA , 4500 CN <sup>-</sup> D	*BDL (**DL 0.02 mg/l)	mg/l
10.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	2.55	mg/l
11.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	196.00	mg/l
12.	Total Suspended Solid	APHA , 2540 C, Gravimetric Method	22.00	mg/l
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	9.46	mg/l
14.	Fluoride as F	APHA , 4500-F <sup>-</sup> D, SPADNS Method	0.45	mg/l
15.	Electrical Conductivity	APHA,5210 Conductivity Meter Method	327	µs/cm
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	6.20	mg/l
17.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.19	mg/l
18.	Boron	APHA, 4500B C, Carmine Method	0.51	mg/l

ANKITA SINGH  
ANALYST  
(Tested By)  
A. Singh

ARJUN RAWAT  
(Checked By)  
Arjun Rawat



For Brahmaputra Metallics Limited

Arjun Rawat  
Director

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## Test Report

Sample No.: VEL/BML/W/02			Report No: VEL/W/2009/12/002	
S. No	Parameter	Test-Method	Result	Unit
19.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l
20.	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l
21.	Zinc as Zn	APHA , 3111 B, Direct Air, Acetylene Flame Method	0.49	mg/l
22.	Copper as Cu	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
23.	Manganese as Mn	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l
24.	Cadmium as Cd	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l
25.	Lead as Pb	APHA , 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l
26.	Hexavalent Chromium	APHA, 3500Cr B Colorimetric Method	*BDL(**DL 0.01 mg/l)	mg/
27.	COD	APHA,5220 B Open Reflux Method	26.50	mg/
28.	BOD (3 Days at 27°C)	APHA ,5210 C/IS 3025(P-44)	9.00	mg/l

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit. #These parameter are not covered in our NABL scope.

ANKITA SINGH  
ANALYST

*(Signature)*

ARJUN RAWAT

(Checked By)  
*(Signature)*



For Brahmaputra Metalics Limited

*(Signature)*  
Director

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Branch Off: Plot No. 24 & 25, Narayan Vihar, B-Block, Jaipur - 302035, Rajasthan  
NABL Accredited | MoEF&CC Recognized | ISO 9001 | ISO 14001 | ISO 45001

## Test Report

**Sample Number:** VEL/BML/W/03  
**Name & Address of Party:** M/s Brahmaputra Metallics Ltd.  
Village- Kamta, Block- Gola,  
Distt.- Ramgarh, Jharkhand

**Sample Description:** Surface Water Sample  
**Sample Location:** Bhera River, (Downstream)  
**Sample Collected by:** Vardan Enviro Lab Representative  
**Parameter Required:** As per Client Requirement  
**Sampling & Analysis Protocol:** IS-10500, APHA  
**Latitude:** 23° 31' 48.49"E  
**Longitude:** 85° 41' 42.00"E

**Report No.:** VEL/W/2009/12/003  
**Format No.:** 7.8 F-01  
**Party Reference No.:** Nil  
**Reporting Date:** 18/09/2020  
**Period of Analysis:** 12/09/2020 – 17/09/2020  
**Receipt Date:** 12/09/2020  
**Date of Sampling:** 11/09/2020  
**Preservation:** Refrigerated  
**Sampling Type:** Grab  
**Sample Quantity:** 2.0 Ltr.

S. No.	Parameter	Test-Method	Result	Unit
1.	pH (at 25 °C)	APHA ,4500-H <sup>+</sup> B Electrometric Method	7.89	--
2.	Colour	APHA ,2120 B, Visual Comparison Method	*BDL (**DL 5Hazen)	Hazen
3.	Turbidity	APHA, 2130 B, Nephelometric Method	*BDL (**DL 0. 1 NTU)	NTU
4.	Odour	APHA, 2150 B , Threshold Test Method	Agreeable	--
5.	Total Hardness as CaCO <sub>3</sub>	APHA , 2340 C, EDTA Titrimetric Method	96.00	mg/l
6.	Calcium as Ca	APHA, 3500 Ca B, EDTA Titrimetric Method	35.78	mg/l
7.	Alkalinity as CaCO <sub>3</sub>	APHA , 2320 B, Titrimetric Method	114.05	mg/l
8.	Chloride as Cl	APHA, 4500-Cl <sup>-</sup> B, Argentometric Method	46.32	mg/l
9.	*Cyanide as CN	APHA , 4500 CN <sup>-</sup> D	*BDL(**DL 0.02 mg/l)	mg/l
10.	Magnesium as Mg	APHA , 3500 Mg B, Calculation Method	1.63	mg/l
11.	Total Dissolved Solids	APHA , 2540 C, Gravimetric Method	219.00	mg/l
12.	Total Suspended Solid	APHA , 2540 C, Gravimetric Method	27.00	mg/l
13.	Sulphate as SO <sub>4</sub>	APHA , 4500 E, Turbidimetric Method	8.42	mg/l
14.	Fluoride as F	APHA , 4500-F <sup>-</sup> D, SPADNS Method	0.70	mg/l
15.	Electrical Conductivity	APHA,5210 Conductivity Meter Method	365	µs/cm
16.	Nitrate as NO <sub>3</sub>	IS 3025 (P-34) ,Chromotropic Method	7.10	mg/l
17.	Iron as Fe	APHA , 3500-Fe B 1,10 Phenanthroline Method	0.29	mg/l
18.	Boron	APHA, 4500B C, Carmine Method	0.58	mg/l

ANKITA SINGH  
ANALYST  
(Tested By)  
ASIN

ARJUN RAWAT  
(Checked By)  
ARJUN



For Brahmaputra Metallics Limited  
Anub Salu  
Director

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# Vardan EnviroLab

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## Test Report

Sample No.: VEL/BML/W/03			Report No: VEL/W/2009/12/003	
S. No	Parameter	Test-Method	Result	Unit
19.	Phenolic Compounds	APHA, 5530 C Chloroform Extraction Method	*BDL(**DL 0.001 mg/l)	mg/l
20.	#Anionic Detergents as MBAS	APHA, 5540 C MBAS Method	*BDL(**DL 0.02 mg/l)	mg/l
21.	Zinc as Zn	APHA, 3111 B, Direct Air, Acetylene Flame Method	0.54	mg/l
22.	Copper as Cu	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.03 mg/l)	mg/l
23.	Manganese as Mn	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL(**DL 0.06 mg/l)	mg/l
24.	Cadmium as Cd	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l
25.	Lead as Pb	APHA, 3111 B, Direct Air, Acetylene Flame Method	*BDL	mg/l
26.	Hexavalent Chromium	APHA, 3500Cr B Colorimetric Method	*BDL(**DL 0.01 mg/l)	mg/l
27.	COD	APHA, 5220 B Open Reflux Method	28.50	mg/l
28.	BOD (3 Days at 27°C)	APHA, 5210 C/IS 3025(P-44)	11.00	mg/l

Note: - \*BDL-Below Detection Limit, \*\*DL- Detection Limit. #These parameter are not covered in our NABL scope.

ANKITA SINGH  
ANALYST  
(Tested By)  
Asintha

ARJUN RAWAT  
(Checked By)  
Arjun



For Brahmaputra Metallics Limited

Aradh Salu  
Director

NOTE: a) The results listed refer only to the tested samples & applicable parameters  
b) Total liabilities of our lab will be restricted to the Invoice amount only  
c) The sample will be destroyed after retention time unless otherwise specified  
d) This report is not to be reproduced wholly or in part and cannot be used as evidence in the court of law

[www.vardan.co.in](http://www.vardan.co.in)

Tel: 0124-4343750, 4343752, 4343753 | E-mail: [lab@vardanenvironet.com](mailto:lab@vardanenvironet.com), [bd@vardanenvironet.com](mailto:bd@vardanenvironet.com)



भारत सरकार  
जल शक्ति मंत्रालय  
जल संसाधन, नदी विकास  
और गंगा संरक्षण विभाग  
केन्द्रीय भूमि जल प्राधिकरण  
Government of India  
Ministry of Jal Shakti  
Department of Water Resources,  
River Development & Ganga Rejuvenation  
Central Ground Water Authority

(भूजल निकासी हेतु अनापत्ति प्रमाण पत्र)

**NO OBJECTION CERTIFICATE (NOC) FOR GROUND WATER ABSTRACTION**

Project Name:	M/s Brahmaputra Metalics Ltd		
Project Address:	Village - Kamta, Gola, Ramgarh		
Village:	Kamta	Block:	Gola
District:	Ramgarh	State:	Jharkhand
Pin Code:			
Communication Address:	401, Commerce Tower, Opp - Gel Church Complex, Main Road, Ranchi, Jharkhand, , Ranchi, Jharkhand - 834001		
Address of CGWB Regional Office :	Central Ground Water Board Mid Eastern Region, 6th & 7th Floor, Lok Nayak Jai Prakash Bhawan, Frazer Road Dak Banglow, Patna, Bihar - 800011		

1. <b>NOC No.:</b>	CGWA/NOC/IND/ORIG/2021/10453											
2. Application No.:	21-4/476/JH/IND/2019	3. Category: (GWRE 2017)	Safe									
4. Project Status:	Existing Project	5. NOC Type:	New									
6. <b>Valid from:</b>	09/01/2021	7. <b>Valid up to:</b>	08/01/2024									
8. Ground Water Abstraction Permitted:												
	Fresh Water		Saline Water									
	Dewatering		Total									
	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day									
	m <sup>3</sup> /day	m <sup>3</sup> /year	m <sup>3</sup> /day									
	290.00	95700.00										
9. Details of ground water abstraction /Dewatering structures												
	<b>Total Existing No.:5</b>						<b>Total Proposed No.:0</b>					
	DW	DCB	BW	TW	MP	MPu	DW	DCB	BW	TW	MP	MPu
Abstraction Structure*	0	0	5	0	0	0	0	0	0	0	0	0
*DW- Dug Well; DCB-Dug-cum-Bore Well; BW-Bore Well; TW-Tube Well; MP-Mine Pit;MPu-Mine Pumps												
10. Ground Water Abstraction/Restoration Charges paid (Rs.):				574200.00								
11. Number of Piezometers(Observation wells) to be constructed/ monitored & Monitoring mechanism.	No. of Piezometers						Monitoring Mechanism					
							Manual	DWLR**	DWLR With Telemetry			
**DWLR - Digital Water Level Recorder	1						0	1	0			

**(Compliance Conditions given overleaf)**

This is an auto generated document &amp; need not to be signed.

For Brahmaputra Metalics Limited

*Amit Sahu*  
Director

18/11, जामनगर हाउस, मानसिंह रोड, नई दिल्ली - 110011 / 18/11, Jamnagar House, Mansingh Road, New Delhi-110011

Phone: (011) 23383561 Fax: 23382051, 23386743

Website: cgwa-noc.gov.in

पानी बचाये - जीवन बचाये  
SAVE WATER - SAVE LIFE

**Validity of this NOC shall be subject to compliance of the following conditions:**

**Mandatory conditions:**

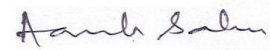
- 1) Installation of digital water flow meter (conforming to BIS/ IS standards) having telemetry system in the abstraction structure(s) shall be mandatory for all users seeking No Objection Certificate and intimation regarding their installation shall be communicated to the CGWA within 30 days of grant of No Objection Certificate through the web-portal.
- 2) Proponents shall mandatorily get water flow meter calibrated from an authorized agency once in a year.
- 3) Construction of purpose-built observation wells (piezometers) for ground water level monitoring shall be mandatory as per Section 14 of Guidelines . Water level data shall be made available to CGWA through web portal. Detailed guidelines for construction of piezometers are given in Annexure-II.
- 4) Proponents shall monitor quality of ground water from the abstraction structure(s) once in a year. Water samples from bore wells/ tube wells / dug wells shall be collected during April/May every year and analysed in NABL accredited laboratories for basic parameters (cations and anions), heavy metals, pesticides/ organic compounds etc. Water quality data shall be made available to CGWA through the web portal.
- 5) In case of mining projects, additional key wells shall be established in consultation with the Regional Director, CGWB for ground water level monitoring four (4) times a year (January, May, August and November) in core as well as buffer zones of the mine.
- 6) In case of mining project the firm shall submit water quality report of mine discharge/ seepage from Govt. approved/ NABL accredited lab.
- 7) The firm shall report compliance of the NOC conditions online in the website (www.cgwa-noc.gov.in) within one year from the date of issue of this NOC.
- 8) The firm shall submit the water audit report in case of water requirement is in excess of 100 m3/day through certified auditors within three months of completion of the same to CGWA.
- 9) Application for renewal can be submitted online from 90 days before the expiry of NOC. Ground water withdrawal, if any, after expiry of NOC shall be illegal & liable for legal action as per provisions of Environment (Protection) Act, 1986.
- 10) This NOC is subject to prevailing Central/State Government rules/laws/norms or Court orders related to construction of tube well/ground water abstraction structure / recharge or conservation structure/discharge of effluents or any such matter as applicable.

**General conditions:**

- 11) No additional ground water abstraction and/or de-watering structures shall be constructed for this purpose without prior approval of the Central Ground Water Authority (CGWA).
- 12) The proponent shall seek prior permission from CGWA for any increase in quantum of groundwater abstraction (more than that permitted in NOC for specific period).
- 13) Proponents shall install roof top rain water harvesting in the premise as per the existing building bye laws in the premise.
- 14) The project proponent shall take all necessary measures to prevent contamination of ground water in the premises failing which the firm shall be responsible for any consequences arising thereupon.
- 15) In case of industries that are likely to contaminate the ground water, no recharge measures shall be taken up by the firm inside the plant premises. The runoff generated from the rooftop shall be stored and put to beneficial use by the firm.
- 16) Wherever feasible, requirement of water for greenbelt (horticulture) shall be met from recycled / treated waste water.
- 17) Wherever the NOC is for abstraction of saline water and the existing wells (s) is /are yielding fresh water, the same shall be sealed and new tubewell(s) tapping saline water zone shall be constructed within 3 months of the issuance of NOC. The firm shall also ensure safe disposal of saline residue, if any.
- 18) Unexpected variations in inflow of ground water into the mine pit, if any, shall be reported to the concerned Regional Director, Central Ground Water Board.
- 19) In case of violation of any NOC conditions, the applicant shall be liable to pay the penalties as per Section 16 of Guidelines.
- 20) This NOC does not absolve the proponents of their obligation / requirement to obtain other statutory and administrative clearances from appropriate authorities.
- 21) The issue of this NOC does not imply that other statutory / administrative clearances shall be granted to the project by the concerned authorities. Such authorities would consider the project on merits and take decisions independently of the NOC.
- 22) In case of change of ownership, new owner of the industry will have to apply for incorporation of necessary changes in the No Objection Certificate with documentary proof within 60 days of taking over possession of the premises.
- 23) This NOC is being issued without any prejudice to the directions of the Hon'ble NGT/court orders in cases related to ground water or any other related matters.

**(Non-compliance of the conditions mentioned above is likely to result in the cancellation of NOC and legal action against the proponent.)**

For Brahmaputra Metallics Limited

  
Director



# BRAHMAPUTRA METALLICS LIMITED

Works : Village-Kamta, Block- Gola, Distt. - Ramgarh - 829210 (Jharkhand)

Date: 11.04.2019

To

Annexure - 2b

Regional Director,  
Central Ground Water Board,  
Mid-Eastern Region,  
6th & 7th Floor,  
Lok Nayak Jai Prakash Bhawan,  
Frazer Road, Dak Banglow,  
Patna- 800011, Bihar.

**Subject: Application for ground water abstraction of 290 KLD for Industrial use at our M/s Brahma Putra Metallics Ltd at village, Kamta, Tehsil – Gola, District – Ramgarh, Jharkhand**

**Reference: Application No.: 21-4/476/JH/IND/2019 submitted online on 11.04.2019**

Dear Sir,

With reference to the above-cited subject, please find enclosed herewith the hard copy of application bearing number **21-4/476/JH/IND/2019** submitted online on 11.04.19 regarding permission to abstract ground water of 290 KLD for industrial use at our unit M/s Brahma Putra Metallics Ltd at village, Kamta, Tehsil – Gola, District – Ramgarh, Jharkhand. The application is annexed with all project related documents as per CGWA checklist.

A sum of Rs 1000 (One thousand rupees) only has been paid online through Non Tax Receipt Portal (<http://bharatkosh.gov.in>) on account of Application Processing Fee. The copy of payment receipt bearing number **1104190002091** dated **11.04.19** is attached herewith.

You are requested to acknowledge the receipt of this application and process our case further.

Thanking You

M/S Brahma Putra Metallics Ltd

For Brahma Putra Metallics Limited

*Aarsh Sahu*

Aarsh Sahu

Director

(Director)



*P.K. Malhotra*  
*18/04/2019*

Administrative Office : 401, Commerce Tower, Opp. G.E.L. Church Complex, Main Road, Ranchi - 834 001. (Jharkhand), India  
Tel. : +91-651-2332161/62, Fax : +91-651-2332163, E-mail: bmlranchi@gmail.com

For Brahma Putra Metallics Limited

*Aarsh Sahu*

Director



**Damodar Valley Corporation**  
**Office of the Manager Reservoir Operations**  
**Maithan Dam, Dhanbad**  
**Jharkhand-828 207**

**Phone : 06540 279445**

No.: MRO/Tariff Cell/ BML / 966

Dated- 04-08-2020

To  
✓ The Authorized Signatory,  
SHRI SANDIP RAKSHIT  
M/S. BRAHMAPUTRA METALLICS LIMITED  
Sagar Bizz Plex, 4Th Floor, Near- Bora Service Station, Ulubari, G.S. Road, Guwahati-781007, Assam

**Sub.: Execution of Agreement for Water withdrawal of 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year) of Raw Water for M/S BRAHMAPUTRA METALLICS LIMITED Sagar Bizz Plex, 4Th Floor, Near- Bora Service Station, Ulubari, G.S. Road, Guwahati-781007, Assam**

Dear Sir,

Enclosed, please find here with a copy of the Agreement for drawal of 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year) of Raw Water for Brahmputra Metallics Limited, on 04-August-2020 for your record.

Yours faithfully,

Md. O. 04/08/2020

(Md Omair)

Sr. Divisional Engineer ( Civil ),  
Tariff Cell, MRO'S Office, DVC, Maithon

Dated. 04-08-2020

**For Brahmputra Metallics Limited**

*Amit Saha*  
Director

# DAMODAR VALLEY CORPORATION



## AGREEMENT

EXECUTED ON .....4th... day of August-2020

BETWEEN

**DAMODAR VALLEY CORPORATION**  
**AND**  
**BRAHMAPUTRA METALLICS LIMITED**  
**For Supply of RAW WATER**  
FOR

Production of sponge iron, M S Billets and generation of power in captive power plant  
AT  
KAMTA, GOLA RAMGARH

FROM

Bhairavi River U/S of Tenughat Reservoir  
FOR  
INDUSTRIAL (USES)

Allocated Quantity : 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year)



सत्यमेव जयते

# INDIA NON JUDICIAL Government of Jharkhand

## e-Stamp

Certificate No. : IN-JH30776763638974S  
 Certificate Issued Date : 03-Aug-2020 08:33 PM  
 Account Reference : NONACC (SV)/ jh9006804/ RAMGARH/ JH-RG  
 Unique Doc. Reference : SUBIN-JHJH900680446462446950747S  
 Purchased by : BRAHMAPUTRA METALLIC LTD  
 Description of Document : Article 5 Agreement or memorandum of an Agreement  
 Property Description : AGREEMENT  
 Consideration Price (Rs.) : 0  
 (Zero)  
 First Party : DAMODAR VALLEY CORPORATION  
 Second Party : BRAHMAPUTRA METALLIC LTD  
 Stamp Duty Paid By : BRAHMAPUTRA METALLIC LTD  
 Stamp Duty Amount(Rs.) : 100  
 (One Hundred only)

### AGREEMENT

Supply of Raw Water  
For  
Industrial Use



This Agreement is made on this 1<sup>st</sup> th .....Day of August-2020

### BETWEEN

**DAMODAR VALLEY CORPORATION**, a Corporation constituted under the Damodar Valley Corporation Act No. XIV of 1948 (hereinafter referred to as "the said Act") and having

its Headquarters of DVC Towers, V.P. Road, Kolkata - 700 054 in the state of West Bengal (hereinafter to as "the First Party", which term shall unless excluded by or repugnant to the subject or context include its successors-in-interest and assigns) of the ONE PART

AND

M/S. BRAHMAPUTRA METALLICS LIMITED, a Limited Company, having their registered office at SAGAR BIZZ PLEX, 4th FLOOR, Near- BORA SERVICE STATION, ULUBARI, G.S. ROAD, GUWAHATI-781007, ASSAM in the state of ASSAM (Hereinafter referred to as "the Second Party" which term shall unless excluded by or repugnant to the subject or context include its successors-in-interest and/or permitted assigns) of OTHER PART.



Md. O. S. Sr. Divisional Engineer (C)  
M.R.O. Office  
द.प्रा.नि. मैथन/D.V.C. Maithon

0000276217

1. The authenticity of this Stamp Certificate should be verified at "www.sholestamp.com". Any discrepancy in the details on this Certificate and as available on the website renders it invalid.

For Brahmaputra Metallica Limited

*Aashu Sahu*  
Director

WHEREAS one of the functions of the First party under Section 12(a) of the said Act is the promotion and operation of the schemes inter-alia for the supply of water in the Damodar Valley.

AND WHEREAS under the provisions of Section 15 of the said Act the First Party is vested with power to determine and levy rates for bulk supply and retail distribution of water for industrial purposes and specify the manner of recovery of such rates.

AND WHEREAS under the provisions of section 17 of the said Act construction, operation or maintenance in the Damodar Valley of any dam or other work of any installation for extraction of water shall not be effected by any person without the consent of the First Party.

AND WHEREAS the Second Party has requested the First Party under cover of its letter No. BML/2020-21/16 dated 07.07.2020 annexed hereto, to allow it to construct, operate and/or maintain the water supply scheme and to allow it to have a supply of water from Bhairavi River U/S of Tenughat Reservoir for their Production of sponge iron, M S Billets and generation of power in captive power plant at Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand, Pin.- 829110 in accordance with the approved plan and drawing forwarded by Chief Engineer (Civil), DVC, Maithon vide letter no.- Nil & Letter No.- MRO/ Water Tariff Cell/- 1/928 dated 03.07.2020 of Dy. Chief Engineer ©, Water Resources, DVC, Maithon and also the letter No. MD/DVRR/W-6(143)/2020/1236-42 dated 01.07.2020 of Member Secretary, DVRR, CWC, Maithon annexed hereto for Industrial purpose as laid down in the relevant provisions of the said act.

AND WHEREAS the First Party has agreed to such construction, operation and/or maintenance of the water supply scheme and has further agreed to such supply of water to the Second Party for an initial period of five years as referred to in Clause- 16 here-in-under on the terms and conditions as hereinafter appearing.

**NOW THIS AGREEMENT WITNESSTH AND IT IS HEREBY DECLARED AND AGREED AS FOLLOWS:-**

**01. (a) PERMISSION :**

(i) The "First Party" hereby grants to the "Second Party" the permission to construct, operate and/or maintain the said water supply scheme in accordance with the Plan and Drawing annexed hereto and to extract such quantities of water from Bhairavi River U/S of Tenughat Reservoir for the purpose of Production of sponge iron, M S Billets and generation of power in captive power plant at KAMTA, GOLA RAMGARH as the "Second Party" may require upto 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year) at the point in the Bhairavi River U/S of Tenughat Reservoir indicated in the said plan and Drawing annexed hereto and in the manner hereinafter mentioned provided the "Second Party" desiring to increase or decrease the quantity of water to be extracted as permitted aforesaid the "First Party" may require the "Second Party" to give the "First Party" THREE(3) MONTHS' notice in writing and approach DVRRC stating the quantity of water required and the "First Party" after receipt of approval of DVRRC will permit the additional drawal of water depending on the condition prevailing at that time provided further that failure on the part of 'the First Party' will not be construed as breach of this Agreement. the sourcing point and allocation of water by DVRRC is function-specific. The allocation shall, in no way, be utilized /misused by 'the Second Party' by sale of water to any other consumer or its sister concern (or any agency on its behalf) for any purpose whatsoever, in the event of any such act, the same will be construed as breach of the terms and conditions of this agreement on the part of 'the Second Party' as specified in clause-17



For Brahmputra Metallics Limited

*Amit Sahu*  
Director

*MD. OWS*  
वरिष्ठ मंडलीय अभियन्ता (असे०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलामार प्रचालन  
M.R.O. Office  
दा.घ.नि. मैथन/D.V.C. Maithon



01. (b) PERMISSION : Not Applicable

(i) The "First Party" who is seized and possessed of and is otherwise well and sufficiently entitled to the plots of land measuring Nil of DVC land, more particularly described in the drawing hereto annexed, hereby grants to the "Second Party" the right to use/build at his own cost, the intake works comprising the pump house supporting structures and approaches and also lay down pipes and other works on the above mentioned piece and parcel of land.

(ii) These structures and pumping installations shall be the property of the "Second party" and shall be maintained by them.

(iii) The "Second Party" shall apply to the "First Party" for extension of the license-period of the temporarily allotted piece of land for permissive possession/occupation for the specific use if applicable as mentioned hereinabove in Cl. 01.(b).(i) before expiry of every license-period/term of 11 (eleven) months as per the subsisting rules & regulations for temporary use/permissive possession/occupation. The "Second Party" hereby agrees to comply with all the existing terms and conditions as may be decided by the Corporation from time to time and agrees to pay the license fee as may be revised time to time without raising any dispute in this regard.

(iv) For the temporary use/occupation of the said Nil of DVC land, the second party shall pay the "First party" a license fee 0 @ Rs. 6/- sq.ft. per term of 11 (eleven) months from the date of permissive possession/occupation of the said land if applicable, is made over to the 'Second Party'.

The aforesaid license-period and the rate of license fee may be altered and /or revised and/or enhanced as per discretion of 'the FIRST party' and 'the SECOND PARTY' agrees to make the payments as per the revised rate as and when made applicable.

(v) The "Second Party" shall not be entitled to transfer or let out the said land to others without the consent of the "First Party".

(vi) The "First Party" shall not put up any structure of its own on the aforesaid piece of land without the consent of the "Second Party" which shall not be unnecessarily withheld.

(vii) On the termination of the tenure of the temporary use and occupation period, the "Second Party" shall quit, vacate and deliver peaceful possession of the said land by removing the intake works built thereon and restoring it to its original condition at his own cost.

(viii) Neatness and cleanliness of the area occupied should be observed by the "Second Party"

02. APPROVAL OF PLAN & DRAWING INSPECTION:

The installation of the "Second Party" required for extraction of water at the point on the Bhairavi River U/S of Tenughat Reservoir indicated in the said plan and Drawing shall be duly approved by the "First Party" before erection provided the "First Party" or its representatives duly authorized in that behalf shall, from time to time, and at all times be entitled to enter such installations of the "Second Party" for inspection.



For Brahmaputra Metallics Limited

*Amb Salu*  
Director

*MD. Ous*  
वरिष्ठ मंडलीय अभियन्ता (असें०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
ता.घा.नि. मैथन/D.V.C. Maithon

03. (a) **EXCESS DRAWAL :**

No drawal in excess of the water, as permitted shall be made by "the second party" without obtaining the specific prior written permission/approval of DVRRC and subject to such terms and conditions as "the First Party" may like to impose. Notwithstanding, whatever is mentioned in this agreement regarding excess drawal, it is hereby agreed and accepted by the second party that, for the quantities of water consumed in excess of the approved monthly drawal and for any other unauthorized drawal of water, sanctioned quantum will be charged @ normal rate plus overdrawal/unauthorized drawal in excess of sanctioned drawal on monthly basis will be charged @ 2 (Two) times the normal rate.

(b) **LESS DRAWAL:**

The less drawal of water by 10% or more of the agreement quantity during any 5 (five) consecutive years will automatically call for revision of the agreement quantity. The revised agreement quantity will be reduced to average of preceding 5 yrs' actual drawal, without making any further reference to the consumer incorporating the actual average drawal. However, the consumer may opt to apply to DVRRC for increase the quantity as per provision under Clause -1(a) hereinabove.

04. **MODE OF MEASUREMENT & METERS :**

For the purpose of measurement of the quantity of water extracted, the "Second Party" shall under this Agreement, with the prior Approval of the First Party, install at such points as may be indicated by 'the First Party', as many meters or as equal to the different type or types of uses of water so as to register the quantity of water for the purpose of determining the water drawal pattern (excess/less drawal) of the Second Party. in such units of measurement as may be adopted by "the First Party"

from time to time provided that for the purpose of checking the accuracy of the meter/meters installed by "the Second Party", "the First Party" may install check meters or other mutually agreed upon check measures and "the Second Party" shall provide all facilities such as log book etc. required by "the First Party" for such installation or such check.

It shall be responsibility of the 'Second Party' to repair/rectify/replacement of meter/meters within a period of 30 days from the date of detection of the fault by either party. And that 'the second party' has to submit a report certified by the representative of the first party every year regarding their compliance with proper and satisfactory functioning of meter with proper logging of meter readings which will be given due importance during periodic review of water utilization by DVRRC. Non-compliance of above may tantamount to cancellation of water allotment.

The reading of the meters referred to above shall be jointly taken by the accredited representative of the consumer and Corporation on/or as near as practicable to the last day of each English calendar month or as decided by the corporation and the reading so taken shall be binding, final and conclusive between the consumer and the Corporation as to the quantity of water drawal by the consumer, provided that in the event of any meter being found defective and the quantity of drawal of water during the period when the meter was defective shall be determined, unless otherwise mutually agreed as detailed in clause - 6 & 10 here-in-under.



For Brahmaputra Metalics Limited

*Amit Sahu*  
Director

*M.D. O...*  
वरिष्ठ मंडलीय अभियन्ता (असे०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
दा.घा.नि. मैथन/D.V.C. Maithon

05. SEALING OF METERS :

All meters referred to in the above mentioned Clause - 04 excepting the ones with automatic recorder on charts if any, shall be properly sealed on behalf of both the parties hereto and shall not be interfered with by either party except in the presence of the other party or its representatives duly authorized in that behalf.

06. METER READING, INSPECTION & BASIS OF PAYMENT :

The Control Valve House housing the meter/meters of 'the Second Party' shall remain in the custody of 'the second Party' and 'the First Party' through its representative duly authorized in that behalf shall at all times be entitled to enter the said Control Valve House and inspect the meter/meters. The meter reading shall be entered up daily at 9.00 hours in a register by the second Party or its representatives duly authorized in that behalf. The readings may be checked and attested by 'the First Party' or its representative duly authorized in that behalf, at convenient intervals

**Provided that** where it is not possible to record the quantity of water extracted for a particular use directly owing to the absence of a meter directly recording such quantity, the quantity extracted for such use shall be determined by taking the difference between the quantity recorded in the main meter, recording the total quantity extracted for all uses under this Agreement, and the quantity recorded for the other uses for which there may be direct meter/meters.

**Provided further that** if this meter/meters installed by 'the second party' for recording the quantity of water is/are out of order, the quantity of water extracted may be assessed by taking the average of the quantity extracted during the preceding 3 (three) months as per the reading of the meter/meters, provided further that nothing as aforesaid shall prevent the respective parties from arriving at a mutual settlement as regard the quantity of water extracted during the above period for the purpose of ascertaining excess/less drawal by the second party.

**The basis of payment shall be the quantity of water extracted in a month. In other words, bills shall be raised monthly or quarterly or as decided by the corporation, based on the extracted quantity.**

07. QUANTITY OF WATER CONSUMED OR EXTRACTED :

The Registers of meter reading referred to in the above mentioned Clause- 06 or the assessed quantity of water mutually agreed upon by and between both the parties hereto or the average of the quantity of water extracted during the three months as aforesaid or computed by taking the difference between the direct recording and main meter shall be the prima facie evidence of the quantity of water extracted by 'the second Party'.



For Brahma Putra Metalics Limited

*Ambu Salu*  
Director

*Md. Omer*  
वरिष्ठ मंडलीय अभियन्ता (असे०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रध  
M.R.O. Office  
द.घ.नि. मेयन/D.V.C. Meyan

## 08. PROPRIETARY RIGHT OF METERS AND UPKEEPMENT:

Meters as mentioned in the above mentioned Clause -04 shall be the property of 'the Second Party' and 'the Second Party' shall be liable for the upkeepment of the meter and for carrying out test once a year or more to the satisfaction of the First Party about the accuracy of such meter/meters.

## 09. ACCURACY OF METERS :

In the event of any dispute or difference between 'the First Party' and the Second Party as to the sufficiency or accuracy or state of repair or condition of the said meter or as to the quantity of water extracted through such meter, such difference or dispute shall be referred to and determined by an Engineer to be appointed by both the parties hereto.

## 10. BASIS OF ASSESSMENT IN ABSENCE OF METER :

(a) It is accepted and agreed by the 'Second Party' that the total quantity of consumption of water for the month shall be computed by the first party on the basis of actual drawal of water and the bills shall be raised on such quantity as referred to in Schedule-I & II. However, the Second Party is required to install and commission the meter(s) up to the satisfaction of the First Party for ascertaining excess/less drawal as referred to in clause 3.(a) & 3.(b) hereinabove.

(b) If at any time the meters installed for measurement of water extracted shall at any time, cease to register correctly or be removed for repair, calibration etc., then for the period until the said meters shall have been repaired replaced or otherwise adjusted as to register the quantity of water passing through it correctly, the quantity shall be computed as per proviso of clause 06 hereinabove. The First Party, however, shall be entitled to charge and 'the Second Party' shall be liable to pay for such quantity of water as mentioned in Schedule-II and the bills shall be continued to be raised by first party based on the **extracted** quantity as mentioned hereinabove.

Notwithstanding the bills shall be raised as per provisions contained in preceding cl. 10.(a). The Second Party shall make every Endeavour to get the meter repaired and installed to the satisfaction of the First Party within a period of 1(one) months.

## 11. BILLS & PAYMENTS:

### (a) Bills & Tariff:

The price for supply of water shall be charged to the 'Second Party' in accordance with Schedule-I & the First Party's 'Schedule of Rates' as given in Schedule-II and other conditions in force from time to time, provided that any levy such as any Surcharge, Sales Tax, Octroi or any another amount by whatever other name called known or made by the Corporation, the state Government or any other competent authorities on quantity of water allocated to the 'the second Party' under this agreement, shall be paid by 'the second Party'.



For Brahmputra Metalics Limited

*Ambu Salu*  
Director

*Md. Ous*  
वरिष्ठ मंडलीय अभियन्ता (असै०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
दा.षा.नि. मैथन/D.V.C. Maithon

**(b) Security Deposit: Applicable .**

The First Party may require the Second Party to deposit a Security Amount of Rs. 43,09,717/- ( Rs. Forty Three Lakh Nine Thousand Seven Hundred Seventeen Only) equivalent to water charges for three calendar months, considering quantity allocated in 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year) specified in Clause- 1(a) and given in the schedule -I annexed hereto and or as modified as per clause-13 here-in-under and as per the prevailing water rate mentioned in schedule of rates in Schedule-II. The Second Party shall have to pay altered security amount if the quantity of allocation is changed by DVRRC as per the terms of this agreement and as and when the water rates are revised and notified to the second party from time to time during the tenure of this agreement. In the event of termination of this agreement such security deposit shall be refunded after adjustment of dues, if any, to the Second Party without any interest thereon.

**(c) Periodicity of Billing:**

Bills will be raised to the Second Party monthly/quarterly based on **actual drawal** or as decided by the Corporation as the case may be. It will be the responsibility of second party to make the aforesaid payment within the due date without raising any dispute in this regard.

**(d) Mode of payment:**

The 'second party' shall pay the bill amount to the first party's office at Kolkata by RTGS/Cheque/Demand Draft drawn on Kolkata Branch of any Nationalized Bank, payable to **Executive Director (Finance), DVC, Kolkata-54** within within 30 days from the date of issue of the bill . The license fee, however, is to be paid by the second party as per terms mentioned in Clause- 1 (b).

**(e) Provisional Billing for disputed bills:**

In the case of any disputed bill(s) and or non-receipt/delayed receipt of bill, the second party shall collect the duplicate bill from the office of first party and make the payment immediately. However Delay Payment Surcharge, if applicable, as mentioned here-in-under in clause 11.(f) shall have to be borne by the second party. In case of disputed bills, the second party shall continue to pay full amount as per the bill raised by the first party. The necessary adjustment shall be done by the first party on resolution of dispute and/or differences.

**(f) Delay Payment Surcharge:**

If 'the second party' fails to make the payment of any bill amount within the due date, the second party shall pay the surcharge of 2.0 % per month on the amount of the bill from the due date of payment to the date of receipt of such amount in first party's office at Kolkata/ in Corporation's Account which shall be treated as date of payment. The rate of Delay Payment Surcharge is however liable to revision from such date as the Corporation may decide with prior notice of one month in writing to the consumer.

**(g) Default in payment:**

In the event any bill remaining unpaid for 60 days from the date of issue of the bill, the first party shall give the second party **7(Seven)** days' clear notice in writing of its intention to discontinue the supply of water and on the expiry of such period if the payment has not been received, 'the first party' may forthwith discontinue supply of water to the second party till the period the default continues. Such discontinuance of supply shall not be deemed as breach on the part of the Corporation to comply with any of the terms of this Agreement and shall not relieve the consumer of its obligations and liabilities under the Agreement.



For Brahmputra Metallics Limited

*Aashu Saha*  
Director

*Md. Omer*  
वरिष्ठ मंडलीय अभियन्ता (असि) Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन M.R.O. Office  
दा.घा.नि. मैयन/B.V.C, Manihon

**(h) Resolution of Dispute on Bill Amount:**

In the event of any dispute on the amount of the bill the consumer shall submit the in details indicating the reason/reasons for such dispute and the aforesaid dispute/disputes normally shall be resolved by mutual discussion and/or mutual exchange of written documents between the consumer and the Corporation through authorized representative within **30 (thirty) days** from the date of receipt of such reference made by the second party to 'the First Party'.

**12. MODE OF SUPPLY UNDER NORMAL & ABNORMAL CONDITION:**

Save as provided herein 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year) which, however, need not be continuous, throughout 24 hours, shall be available to 'the Second Party' provided that in case of draught or other unforeseen circumstances, force majeure or any other cause over which the First Party has no control, the First Party shall not be responsible for any diminution or discontinuance of supply on such occasions, but it shall restore the normal conditions of supply as soon as it reasonably can be done to the extent possible.

"The First Party" shall not be considered to be in default or in breach in supplying agreed quantity of raw water due to causes beyond the control of the "The First Party" such as acts of God, Natural Calamities, Civil Wars, Fire, Draught, Riot and acts of unsurpassed power, etc.

**13. VALIDITY PERIOD OF QUANTUM OF WATER ALLOCATION:**

Notwithstanding whatever is stated herein above, the allocated quantum of water for drawal by 'the Second Party' i.e. initial allocation of quantity (in MGD/Cusec) by DVC/DVRRC shall remain valid for INITIAL AGREEMENT period of **5 (five)** years.

In case the average drawal by the second party during the initial agreement period of five years is **not below 90%** of allocated quantity, then the allocated quantity as specified in Clause- 1(a) shall be treated as the 'allocated quantum' of water for drawal by 'the second party' during the forthcoming period provided that the average drawal during last consecutive **5 (five)** years is **not less by more than 10%** of allocated quantity at the time of review by DVRRC.

In case the drawal is found **less by more than 10%**, the first party may reduce the quantum of allocation accordingly based on the average drawal. However, the second party shall have the liberty to apply for increasing the **re-allocated quantity** as per provision of Clause- 1(a). Any change in the allocated quantity after review by DVRRC Shall deem to replace the quantity of drawal specified in Clause- 1(a) and Schedule- I annexed hereto.

Fresh application for re-allotment of the earlier quantity of water for drawal by the second party, shall be required to be submitted by 'the Second Party' **twelve(12)** months prior to expiry of the initial agreement block of 5(five) years.

If the fresh application as above, is not submitted by 'the second party' in due time to the review committee of DVRRC, 'The first party' shall have the right to reduce ex-parte the re-allocation of water as decided by the committee as deemed fit for equitable distribution taking into consideration the average drawal by the second party during the preceding 5(five) years.

'The second party' hereby accepts and agrees to the aforesaid re-allocation of water without any dispute and the bills shall be raised on the basis of the **drawal quantity** in MGD.



For Brahmaputra Metalics Limited

*Ambu Saha*  
Director

*Md. O...*  
वरिष्ठ मंडलीय अभियन्ता (असई०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
द.स.नि. मैथन/D.V.C. Maithan

#### 14. RULES & REGULATION:

'The Second Party' agrees to conform to and abide by all rules and regulations made by the First Party including guidelines for water allocation set by DVRRRC now in force and/or which may from time to time be made by the First Party consistent with this agreement relating to the extraction of water from the First Party's sources within the statutory limit of the said Act.

'The second party' shall ensure the optimal use of allotted quantum for the specific purpose and surrender the wasteful usage from the allotted quota. 'The second party' shall take all cares to avoid any untoward hydraulic conditions and undesirable changes in the river/supply channel.

'The second party' shall also ensure that the minimum flow in the river channel required for ecological balance is not interfered with. The Second Party shall take care that the intake structure and drawl of water, under no circumstance be detrimental to the safety and operation procedures of adjoining intakes/reservoir bridges both upstream & downstream of the intake point and also that the proposed intake is strong enough to be able to withstand floods in the river.

Notwithstanding whatever is stated in Clause-13 above, the review committee for allocation of water shall have prerogative to review periodically to reflect and incorporate the changes which take place in the realm of Water Resource Management.

"The Second Party" will ensure that the effluent water discharging out of the plant/industry will conform to the latest rules/bye laws/ regulations/prescribed water quality parameters by pollution control board of respective State Governments and/or Central Government.

Notwithstanding that the Corporation may not have acted on some previous breach, defaults or event of like nature on the part of the second party, it shall be lawful for the Corporation to enforce the terms and conditions of these presents in the event of a subsequent breach, default or event of like nature in all matters related to withdrawal of raw water by 'the Second Party'.

Any waiver by 'the First Party' of any breach of the terms and conditions of this agreement by the Second Party shall not constitute waiver of any subsequent breach of any other terms or conditions of this agreement.

#### 15. DISPUTE OR DIFFERENCE & ARBITRATION:

Any dispute(s) or difference(s) arising out of or in connection with the agreement at any time between the 'First Party' and the 'Second Party' shall to the extent possible be settled amicably between the parties.

In the event of any dispute(s) or difference(s) whatsoever arising under the agreement or in connection therewith including any question relating to existence, meaning and interpretation of the agreement or any alleged breach thereof, the same shall be referred to the Secretary/CEO of Damodar Valley Corporation, Kolkata-700 054, to nominate Sole Arbitrator for settlement of disputes.

The Arbitration shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 or any statutory modification thereof or for the time being in force or the latest. The decision/judgment of the Sole Arbitrator shall be final and binding on both the parties. The cost of Arbitration shall equally be borne by both the parties. The venue of Arbitration shall be at Kolkata.

However, in case the 'Second Party' is a Central Public Sector Enterprise/Govt. Department, the dispute arising between the parties shall be settled through **Permanent Arbitration Machinery (PAM)** of the Department of Public Enterprise, Govt. of India as per prevailing rules.

All suits arising out of dispute(s) or difference(s) between the 'First Party' and the 'Second Party' are subject to jurisdiction of Court in the City of Kolkata.



For Brahmaputra Metalics Limited

*Arun Saha*  
Director

*Md. Ous*  
वरिष्ठ मंडलीय अभियन्ता (असम)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक: जलागार प्रचालन  
M.R.O. Office  
दी.घा.नि. मैथन/D.V.C. Maithon

16. TENURE OF AGREEMENT OR VALIDITY :

This agreement shall subject as hereinbefore provided be and remain in force for a period of **5 (five)** years initially from the date of commencement of supply under this Agreement and thereafter shall continue uninterruptedly under the existing terms and conditions until determined by either party after the expiration of the fifth or any subsequent year on giving **3 (Three) months'** prior notice in writing of such intention and at the expiration of such notice this Agreement shall absolutely cease and determine but without prejudice to the rights and remedies, if any, of either party which may have accrued or arisen hereunder in the meantime and provided that the Second Party shall on giving the First Party **3 (three) months'** prior notice in writing of such intention be at liberty at any time after the expiration of the fifth or any subsequent year to terminate this Agreement by making payment of the charges equal to water charges for one year as per Schedule of Rates (Annexed as Schedule-II) in force at that time.

17. TERMINATION :

If 'the ' **Second Party**' commits any breach of the terms and conditions of this agreement or if there is any default on the part of 'the **second Party**', 'the **First party**' will be at liberty to terminate this agreement upon one months' notice to 'the **second party**' without prejudice to the rights and remedies, if any, which may have accrued or arisen thereunder.



For Brahma Putra Metalics Limited

*Aashu Sahu*  
Director

Md. Ow  
वरिष्ठ मंडलीय अभियन्ता (असे०)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
दा.वा.नि. मैथन/D.V.C. Maithon



IN WITNESS WHEREOF THE PARTIES TO THESE PRESENTS HAVE HERE UNTO PUT THEIR REPECTIVE HANDS AND SEALS EACH THE DAY AND YEAR FIRST ABOVE WRITTEN.

The Agreement along with Schedule of rates would come into effect on and from the date of commencement of water supply.

4/8/2020

SIGNED, SEALED AND DELIVERED  
FOR AND ON BEHALF OF  
DAMODAR VALLEY CORPORATION

WITNESS

1. S.K. MAJI -  
DEPTO WR

2. Md. O. (MD-04AIP)

(Name & Address) वरिष्ठ मंडलीय अभियन्ता (असम)  
Sr. Divisional Engineer (C)  
कार्यालय, प्रबंधक जलागार प्रचालन  
M.R.O. Office  
दा.षा.नि. मैथन/D.V.C. Maithon

उप-मुख्य अभियन्ता (असम)  
जल सहायक, डी.वी.सी. मैथन  
Deputy Chief Engineer (C)  
Resources, D.V.C., Maithon

मुख्य अभियन्ता (सिविल) तथा विभाग  
दा.घा.नि. मैथन डैम, धनबाद  
Chief Engineer (Civil) & HoD  
D.V.C. Maithon Dam, Dhanb.

4/8/20

SIGNED, SEALED AND DELIVERED  
FOR AND ON BEHALF OF  
BRAHMAPUTRA METALLICS LIMITED

Registered Office: SAGAR BIZZ PLEX, 4th FLOOR, Near-  
BORA SERVICE STATION, ULUBARI, G.S. ROAD, GUWAHATI-781007, ASSAM

WITNESS

1. (Rajesh Singh)

2. (Rajesh Tiwari)  
(Name & Address)



For Brahma Putra Metalics Limited

(Signature)  
Director

**SCHEDULE- I**

[Referred to in Clause-1(a)]

Quantity of Water allocated by DVRRC for drawal by M/s BRAHMAPUTRA METALLICS LIMITED at KAMTA, GOLA RAMGARH, Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand, Pin.- 829110, 0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year)

From 22 day of Feb of two thousand and 2017, the date of commencement of water drawal:

[N.B.: The quantity of raw water allocation as revised by DVRRC from time to time as per the provision of the agreement shall form the integral part of this agreement]

**SCHEDULE- II**

[Referred to in Clause-11]

**SCHEDULE OF RATES**

FOR  
RAW WATER SUPPLY

SOURCES OF DRAWAL	INDUSTRIAL	DOMESTIC/MUNICIPALITY/PHED
	Rate	Rate
Reservoir / River ( Per KL )	Rs. 11.704	Rs. 1.811
Extra Charges for drawing water from water supply canal ( Per KL)	Rs. 0.52	

The Tariff will be enhanced annually at the end of every financial year ( i.e. w.e.f. 1st April ) as follows:

- (i) For Domestic/Municipality/PHED use - 05% shall be increased in raw water tariff annually.  
(ii) For Industrial use - 10% shall be increased in raw water tariff annually.

**Note:** 1) The Water Supply Bills shall be raised on the basis of actual drawal quantity as for all the consumers with the above tariff.

2) An incentive of 10% on the monthly billed amount will be allowed to those Industries who have taken appropriate measures for 'Zero Effluent Discharge'. The said incentive will be applicable only if the payments are made within due date and on production of requisite certificate from State Pollution Control Authority.

**N.B. :** Revised rate will be applicable as and when notified by the Corporation.

*Jasjit*  
4/8/20

For and on behalf of

**BRAHMAPUTRA METALLICS  
LIMITED**

Registered Office: SAGAR BIZZ PLEX,  
4th FLOOR, Near- BORA SERVICE STATION,  
ULUBARI, G.S. ROAD, GUWAHATI-781007,  
ASSAM

*[Signature]*  
04/08/2020

CHIEF ENGINEER  
मुख्य अभियंता (सिविल) तथा विभागाध्यक्ष  
For and on behalf of  
दादरघाटनि, मेथन डैम, धनबाद  
Chief Engineer (Civil) & HoD  
D.V.C. Maithon Dam, Dhanbad

DAMODAR VALLEY CORPORATION

Kolkata-700054

For Brahmaputra Metallics Limited

*[Signature]*  
Director

**Performa of information to be submitted by the company****DETAILS OF THE COMPANY****A. DETAILS OF APPLICANT:**

01.Name in Capital Letters	<b>SHRI SANDIP RAKSHIT</b>
02.Designation	<b>General Manager</b>
03.Relationship with Intending Consumer	<b>General Manager of the Company</b>
04.Complete Postal Address	<b>401, Commerce Tower, Opp. G.E.L. Church, Complex, Main Road, Ranchi-834 001. (Jharkhand)</b>
05.Telephone No.	<b>0651-2332161/62, 7004192896</b>
06 FAX No.	
07.E Mail Address	<b>bml.comtax@gmail.com</b>

**B. DETAILS OF THE WATER CONSUMER:****1****Details of Registered Office:**

<b>Registered Office</b>	Postal Address:	<b>SAGAR BIZZ PLEX, 4th FLOOR, Near- BORA SERVICE STATION, ULUBARI, G.S. ROAD,GUWAHATI-781007, ASSAM</b>
	Telephone No. :	<b>7004192896</b>
	FAX No. :	
	E.Mail Address :	<b>bml.comtax@gmail.com</b>

**2****Details of Contact Person:**

<b>NAME:</b>	<b>SHRI SANDIP RAKSHIT</b>	
<b>Contact Person</b>	Postal Address:	<b>401, Commerce Tower, Opp. G.E.L. Church, Complex, Main Road, Ranchi-834 001. (Jharkhand)</b>
	Telephone No. :	<b>0651-2332161/62, 7004192896, 9771430703</b>
	FAX No. :	
	E.Mail Address :	<b>bml.comtax@gmail.com</b>



For Brahmputra Metallica Limited

*Amit Saha*  
Director

3

**Complete Billing Address:**

<b>Billing Address</b>	Postal Address:	Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand, Pin.- 829110
	Telephone No. :	0651-2332161/62
	FAX No. :	0651-2332163
	E.Mail Address :	bml.comtax@gmail.com

**C. DETAILS OF PROJECT/UNIT/PUMP LOCATION ETC.:**

01. Name of the Village/Place	<b>KAMTA, GOLA RAMGARH</b>
02. Plot no.	<b>453, 452, 454, 522, 524</b>
03. Dag No.	<b>74/5, 98 (Khata No.), 1(Khawat No.)</b>
04. Mouza Name & No.	<b>KAMTA</b>
05. J.L. No.	<b>0027</b>
06. Police Station Name & No.	<b>GOLA POLICE STATION</b>
07. Name of Post Office with PIN	<b>GOLA POST OFFICE - 829110</b>
08. District	<b>RAMGARH</b>
09. Postal Address of the Plant/ Unit site	<b>Village- Kamta, Block- Gola, Distt.- Ramgarh, Jharkhand, Pin.- 829110</b>
10. Point of Water Withdrawal/	<b>Lat 23.5311348 Lng. 85.7059134</b>
Telephone No.	<b>7004192896, 9771430703</b>
FAX No.	
E. Mail Address	<b>bml.comtax@gmail.com</b>
11. Location of Water Treatment Plant	<b>Lat. 23.5294378, Lng: 85.6982144</b>
12. Location of Pumping Station	<b>Lat: 23.5193602, Lng: 85.6962895</b>
13. Number of pumps installed	<b>2 Nos.</b>



For Brahmputra Metallica Limited

Director

14. Capacity of pumps	250 CUBIC METER PER HOUR
15. Location of water meter	Lat: 23.5185558, Lng: 85.6940436
16. Location of Intake point	Lat: 23.5311788, Lng: 85.7075173
17. Quantum of water withdrawal in MGD (approved by DVRRC)	0.90 (Zero Point Nine Zero) MGD (1.5 MCM/Year)
18. Date of Commencement of water withdrawal from pumping station (to be filled up later)	22.02.2017

**D. DETAILS OF RAW WATER USAGE:**

(Attach Separate sheet, if necessary, giving details):

(1) Sponge Iron,
(2) M S Billets and generation of Power in captive power plant

*Jasmit*  
4/8/20

Signature with full name of person  
signing the Agreement & Stamp/ Seal of Company



For Brahma Putra Metallica Limited

*Amit Salu*  
Director



**DAMODAR VALLEY CORPORATION**

**P.O-MAITHON DAM,**

Tel No. (06540) 279402/279683/279445; Fax No. 06540-274313

**ANNEXURES**

**ENCLOSURES FORMING THE PART OF THE AGREEMENT:-**

Annexure (1) to (4) mentioned below and annexed hereto shall form the integral part of this Agreement:-

(1) ANNEXURE-'A' Schedule -I & Schedule -II

(2) ANNEXURE-'B' Detail of the Company

(3) ANNEXURE-'C' MD/DVRR/W-6(143)/2020/1236-42 dated 01.07.2020 of Member Secretary, DVRRRC, CWC, Maithon

(4) ANNEXURE-'D' Letter No.- MRO/ Water Tariff Cell/-1/928 dated 03.07.2020 of Dy. Chief Engineer ©, Water Resources, DVC, Maithon



For and on behalf of

**BRAHMAPUTRA METALLICS  
LIMITED**

Registered Office: SAGAR BIZZ PLEX,  
4th FLOOR, Near- BORA SERVICE STATION,  
ULUBARI, G.S. ROAD, GUWAHATI-781007,  
ASSAM

*Signature*  
24/08/2022

CHIEF ENGINEER

मुख्य अभियंता (सिविल) तथा निष्पादाध्यक्ष  
दाघाघानि, मैथन डैम, घनबाद

Chief Engineer (Civil) & HoD  
DAMODAR VALLEY CORPORATION  
D.V.C. Maithon Dam, Dibrugarh

Kolkata-700054

For Brahma Putra Metallica Limited

*Signature*  
Director

**BRAHMAPUTRA METALLICS LIMITED**  
**VILLAGE - KAMTA, BLOCK - GOLA, DISTRICT - RAMAGARH, JHARKHAND**

<b>Fly Ash Balance Sheet</b>						
<b>Month</b>	<b>Ash</b>					
	<b>Gen-Mt</b>		<b>Total Gen</b>	<b>Disposal - MT</b>		<b>Closing - MT</b>
	<b>AFBC</b>	<b>WHRB</b>		<b>Sale</b>	<b>Cons</b>	
April-20	-	693.00	693.00	116.29	-	79,739.97
May-20	6,190.56	2,418.00	8,608.56	11,787.58	551.39	76,009.56
June-20	6,580.89	2,340.00	8,920.89	-	651.49	84,278.96
July-20	9,244.81	2,387.00	11,631.81	17,382.03	710.95	77,817.78
Aug-20	5,602.79	2,387.00	7,989.79	57,568.68	625.52	27,613.38
Sept-20	3,863.48	2,340.00	6,203.48	18,309.70	521.00	14,986.16
Oct-20	657.88	546.00	1,203.88	-	633.01	15,557.03
Nov-20			-			15,557.03
Dec-20			-			15,557.03
Jan'21			-			15,557.03
Feb'21			-			15,557.03
Mar'21			-			15,557.03
	<b>32,140.41</b>	<b>13,111.00</b>	<b>45,251.41</b>	<b>105,164.28</b>	<b>3,693.36</b>	

For Brahmaputra Metallics Limited

*Amit Kumar*

Director



For Brahmaputra Metallics Limited

*Amit Saha*

Director





For Brahmaputra Metallics Limited

*Amit Saha*  
Director



For Brahmaputra Metallics Limited

*Amit Saha*  
Director



For Brahmaputra Metallics Limited

*Amit Saha*  
Director



For Brahmaputra Metalics Limited

*Anil Sahu*  
Director

**BRAHMAPUTRA METALLICS LIMITED**  
**POLLUTION EQUIPMENT EXP**

Annexure - 5

SL NO.	PARTICULARS	PLANT	CAPITAL	RECURRING
1	WELLTECH ENVIRONMENTAL ENGINEERING PVT LTD	DRI	₹ 2,70,10,354.00	
2	WELLTECH ENVIRONMENTAL ENGINEERING PVT LTD	SMS	₹ 1,04,57,183.00	
3	WELLTECH ENVIRONMENTAL ENGINEERING PVT LTD	DRI COMMISSION WORK	₹ 22,49,828.00	
4	WELLTECH ENVIRONMENTAL ENGINEERING PVT LTD	SMS COMMISSION WORK	₹ 4,79,750.00	
5	POLLUTION CONTROL BOARD FEE	ALL PLANT		₹ 21,92,956.00
6	ESP FOR WHRB AND AFBC	CPP & DRI	₹ 3,00,00,000.00	
7	ONLINE CONTINUOUS STACK MONITORING SYSTEM	CPP	₹ 7,12,493.00	
8	EEFFLUENT TREATMENT PLANT-150KLD	CPP	₹ 9,67,500.00	
9	SO2 ANALYSER(WITH DATA TRANSMISION CHG + HEATED TEFLON TUBE)	CPP	₹ 21,25,292.00	
10	SHREE KRISHNA TUBE-GI PIPE-WATER SPRINKLER	PLANT	₹ 3,84,641.00	
11	ONLINE MONITORING SYSTEM EQUIP	CPP	₹ 2,50,908.00	
12	PELTIER PROBE	CPP	₹ 2,18,025.00	
13	ULTRASONIC LEVEL TRANSMITTER	CPP	₹ 77,800.00	
14	DATA TRANSMISION FOR ONLINE ETP	CPP		₹ 1,47,972.00
15	AMC FOR SO2 ANALYSER	CPP		₹ 1,47,500.00
16	REPAIR CHARGES OF SO2 ANALYSER	CPP		₹ 28,420.00
17	REPAIR CHARGES OF SO2 ANALYSER	CPP		₹ 2,20,400.00
18	PM-10 SO2 ANALYSER	CPP	₹ 10,54,920.00	
19	DISPLAY FOR POLLUTION MEASUREMENT	CPP	₹ 1,67,029.00	
20	ENVIRONMENTAL COMPENSATION	GENERAL		₹ 6,60,000.00
21	RAIN WATER HARVESTING	GENERAL	₹ 5,65,168.00	
22	GREEN BELT DEVELOPMENT	GENERAL	₹ 10,44,157.00	₹ 35,95,137.00
<b>Total</b>			<b>₹ 7,77,65,048.00</b>	<b>₹ 69,92,385.00</b>
<b>GRAND TOTAL</b>			<b>₹ 8,47,57,433.00</b>	

For Brahmputra Metallics Limited

*Amit Sahu*

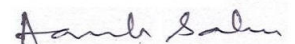
Director

**ANNEXURE – A**

**Compliance report of NOC from JSPCB – Ref. No. 794, Dated – 6.3.07 and  
\*Amendment vide G-1764, Dated – 18.11.09 - FOR SPONGE IRON**

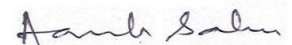
<b>Sl</b>	<b>Conditions</b>	<b>Compliance status</b>
<b>1</b>	The unit shall obtain Consent to Operate under section 25 and 26 of the Water (Prevention & Control of Pollution) Act 1974 and section 21 of the Air (Prevention & Control of Pollution) Act 1981 prior to commissioning of the plant from State Pollution Control Board.	Consent to Operate from SPCB obtained prior to commissioning of the plant vide letter no. D – 497(C), dated 09.03.2011
<b>2</b>	The unit shall install Effluent Treatment Plant adopting appropriate technology to treat the effluent to the standard stipulated.	No effluent discharge from the plant as water kept in closed circuit. Blow down from boiler, cooling tower etc. will be used for dust suppression / horticulture after neutralization & pretreatment. Septic tank and soak pit has been made for domestic effluent
<b>3</b>	All tanks used for collection and treatment of effluent shall be made impervious by providing adequate cement concrete, stone masonry, stone slab lining with leak proof material.	Complied. All tanks used for collection and treatment of effluent made impervious by providing adequate cement concrete, stone masonry. The effluent generated from the plant will be reused after primary treatment.
<b>4</b>	The unit shall install water meter to measure the water consumed for different purposes as per the water (Prevention & Control of Pollution) Cess Act.1977.	Complied. Water meter installed in all intake points.
<b>5</b>	The unit shall ensure continuous and uninterrupted power supply so that pollution control system functions uninterrupted. Separate energy meters shall be provided for the pollution control system.	Continuous and uninterrupted power supply being insured in all systems.
<b>6</b>	The unit shall upgrade pollution control systems as and when new technologies are available.	Will be done as per the guidelines of JSPCB/CPCB.
<b>7</b>	The unit shall install suitable Air pollution control device. ESP etc. shall be provided to control emission from chimney within the prescribed limit of 150 mg/Nm <sup>3</sup> .	ESP and Bagfilters being installed as APC devices for the kiln and other sections of the plant. They will be designed to meet the latest standards for the industry.
<b>8</b>	The height of stack shall be as per the norms of C.P.C.B. Necessary port hole(s), ladder and platform shall be provided with the stack as per CPCB norms. Emission from stack shall conform to the prescribed standards	Being complied for all stacks.
<b>9</b>	The unit shall provide Ambient Air Quality Report & Noise Level Monitoring report before and after commissioning of the plant. The unit shall ensure that the Noise level & AAQ are within the prescribed limit.	Monitoring reports as required submitted before commissioning and after commissioning.
<b>10</b>	The DG sets shall be housed properly to minimize noise pollution in and around the factory campus. The height of exhaust pipe shall be raised as per	Silent type D G sets have already been installed as per the conditions and exhaust pipe raised as per CPCB norms.

For Brahmaputra Metallics Limited

  
 Director

	the norms of C.P.C.B.	
11	The plantation shall be made in every direction in two meters width around the factory campus.	Being complied. Plantation is being done in consultation with the local DFO as per guidelines.
12	The unit shall prepare & implement a plan of rain water harvesting within six month.	Rain water harvesting plan has been developed and implemented for the plant. 2 RWH pits as approved by Ground Water Directorate, Govt. of Jharkhand implemented within premises. Efforts being made to make use of rain water harvested to the maximum extent. Improvement of RWH plan with 2 nos. collection pond is envisaged and will be implemented shortly.
13	The unit shall make pucca (metalled) roads within the premises.	Being complied. Pucca roads construction within the premises has been started.
14	The unit shall install ESP bagfilters of adequate capacity at coal crushing & screening, iron ore crushing & screening, product separation and all transfer points of belt conveyor or at any other point generating fugitive emission.	Shall be complied along with erection and prior to commissioning of the plant.
15	Unit shall obtain Environmental Clearance before 30 <sup>th</sup> June 2007	MOEF environmental clearance has already been obtained vide F. No. J-11011/166/2007-IA-II(I) dated 10.11.2008; prior to starting construction and erection at site.
16	Fixed type water sprinklers shall be installed	Complied. Fixed type water sprinklers installed in dusty areas of the plant.
17	Solid waste shall be suitably disposed off	Solid waste will be handled and disposed as approved by MOEF during grant of environmental clearance. Condition will be complied during operation of the plant.
18	The unit shall obtain authorization under Hazardous Waste Management Handling, Rules 1989 and its amendments.	Being complied. Authorization obtained and further renewal applied in time under Hazardous & Other Wastes (Management Handling & Transboundary Movement) Rules 2016.
19	The unit shall make plant operative only after installation of pollution control system before starting the plant	Being complied. All pollution control system installed with construction and erection of the plant.
*	The unit shall install online monitoring system in all stacks for having facility to transmit data in Jharkhand State Pollution Control Board, Head Office, Ranchi	Complied. On-line system installed, with connectivity to JSPCB & CPCB.

For Brahmaputra Metallics Limited

  
Director

**Compliance report of NOC from JSPCB – Ref. No. N - 29, Dated – 14.10.09 – FOR  
CAPTIVE POWER PLANT**

No.	Description of condition	Compliance status
1	The unit shall obtain Consent to Operate under section 25 and 26 of the Water (Prevention & Control of Pollution) Act 1974 and section 21 of the Air (Prevention & Control of Pollution) Act 1981 prior to commissioning of the plant from State Pollution Control Board.	Consent to Operate from SPCB obtained prior to commissioning of the plant vide letter no. D – 497(C), dated 09.03.2011
2	The unit shall install water meter to measure the water consumed for different purposes to meet the requirement of water, furnish returns of water to be consumed and pay water-cess under the water (Prevention & Control of Pollution) Cess Act.1977.	Complied. Water meter installed in all intake points. Cess as applicable will be paid.
3	That, the proponent shall obtain authorization under the Hazardous Waste (Management, Handling & Transboundary Movement) Rules 2008, the Bio-medical Waste (Management & Handling) Rules 1998 and the Municipal Solid Waste (Management & Handling) Rules 2000 whichever is applicable. The waste shall be disposed off in manner as specified in rules.	Provisions of various Acts and Rules as applicable being complied.
4	That, he/they shall abide by the applicable provisions of the Environment (Protection) Rules, 1986 and shall maintain the quality of effluent, emission, ambient air quality and noise level in conformity with the standards prescribed in the Environment (Protection) Rules, 1986.	Provisions of Act as applicable are being complied. All the effluent, emission, ambient air quality and noise level being maintained within the prescribed limits of the Act.
5	The unit shall install online monitoring system in all stacks for having facility to transmit data in Jharkhand State Pollution Control Board, Head Office, Ranchi	Complied. On-line system installed, in process of connecting to JSPCB Head Office by the supplier.
6	That the proponent shall collect and treat the effluent in foolproof latest system and shall recycle treated effluent to the system for reuse and shall ensure the discharge of effluent (if at all necessary) in upstream of the water intake point.	There is no discharge from the plant. Condition being complied for project to meet the latest norms.
7	That the proponent shall make stack(s) of the height and with provision(s) of monitoring port hole, ladder & platform as prescribed by the Central Pollution Control Board.	Complied for all stacks.
8	That the proponent shall ensure continuous and uninterrupted power supply with provision of Separate energy meters for the pollution control systems to function uninterrupted.	Continuous and uninterrupted power supply insured in all systems.
10	That the proponent shall submit the reports of effluents, emission, Ambient Air Quality & Noise Level Monitored before and after commissioning of the plant.	Monitoring reports as required submitted before commissioning and will be submitted after commissioning.



11	That the proponent shall use DG set(s) of standards as prescribed in Environment (Protection) Rules 1986 and shall house them in integral enclosures and shall keep the height of exhaust pipe as per Central pollution Control Board norms.	Silent type D G sets have already been installed as per the conditions and exhaust pipe raised as per CPCB norms.
12	That the proponent shall install fixed type water sprinklers to cover all dusty places in the premises to impart water spraying intermittently and during loading and unloading of raw materials and wastes.	Complied. Fixed type water sprinklers installed in dusty areas of the plant.
13	That the proponent shall do tree plantation in vacant land within the premises.	Being complied. 33% of project will be under green belt/green cover.
14	That the proponent shall implement a plan of rain water harvesting with establishment of the project.	Rain water harvesting plan has been developed and implemented for the plant. 2 RWH collection ponds have been made. RWH pits as approved by Ground Water Directorate, Govt. of Jharkhand implemented within premises. Efforts being made to make use of rain water harvested to the maximum extent
15	That the proponent shall install adequate air pollution control devices such as dust catcher/cyclone separator/bag filters/venturi scrubber/etc. and water spray system in dusty areas such as coal handling, ash handling points and transfer areas shall be provided.	Complied. All air pollution control devices and dust suppression system being put in place prior to commissioning of the plant.
16	That the proponent shall install ESP to ensure particulate emission below 50 mg/Nm <sup>3</sup>	Complied. ESP to meet 50 mg/Nm <sup>3</sup> installed in the plant.
17	That the proponent shall do regular monitoring of ground water in and around the ash pond area and submit the report to the board regularly.	Will be complied
18	That the proponent shall make all roads pucca within the premises and shall maintain a good house keeping by regular cleaning and wetting of the roads and dust prone areas.	Being complied. Pucca roads construction within the premises has been started.
19	That the proponent shall store all raw materials and products under shed and shall as far as practicable do their processing and transfer under foolproof cover.	Shall be complied as far as practicable.
20	That the proponent shall start activities at the site after obtaining Environmental Clearance and Forest Clearance from Government of India, Ministry of Environment & Forest, New Delhi.	MOEF environmental clearance has already been obtained prior to starting construction and erection at site. Forest clearance not applicable as no forest land being used for the project.
21	That the proponent shall do Socio-Economic welfare in the nearby villages, Compensation to the affected people shall be made as per Govt. Laws and schemes.	Socio-Economic group has been working in nearby villages to provide several welfare measures.

22	That the proponent shall not alter the flow path or course of any river or stream or water body without prior permission from the competent authority	No such action is proposed. Being complied.
23	That the proponent shall implement all pollution control measures recommended in the EIA/EMP and Environmental Clearance.	Being fully complied.
24	That the proponent shall use fly-ash or fly-ash bricks in construction of the project and the fly ash generated from the power plant shall be disposed off as per the provisions of the fly-ash notification, 1999. An action plan shall be submitted within three months for 100% utilization of fly-ash in different purposes including cement industry. Fly-ash shall be collected in dry form and storage facility (silos) shall be provided.	Being complied. Fly ash used outside agencies for cement manufacturing or fly ash bricks/blocks manufacturing.
25	That the proponent shall make the ash pond leak proof by putting impervious lining.	No ash pond proposed. Fly ash in dry collection system and supplied to cement manufacturers.
26	That the proponent shall maintain the quality and table of ground water	Being complied.
27	That the proponent shall keep the waste water in close circuit.	Is being complied. Water used will be kept in closed circuit.
31	That the proponent shall transport all raw materials and waste by covered means.	All materials are being transported in covered trucks/trailers. In future all raw materials and waste will be transported by covered means
32	That the proponent shall adopt clean development mechanism	Being complied.
33	That the proponent shall implement recommendations of CREP	Is being complied. All material handling, equipments and operations will be as per CREP guidelines.

For Brahmaputra Metallics Limited

*Amit Saha*

Director



## JHARKHAND STATE POLLUTION CONTROL BOARD

TOWNSHIP ADMINISTRATION BUILDING, HEC COMPLEX, DHURWA, RANCHI 834004

Telephone: 0651-2400850 (Fax)/ 2400851/2400852/2401847/2400979/2400139

Ref No. JSPCB/HO/RNC/CTO-7015063/2020/1272

Dated : 2020-08-10

### Consent to operate (CTO) under section 25 /26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981

1. Application (s) dated 2020-05-09 of Brahmaputra Metallics Limited, Occupier Name :Kumud Prasad Sahu for consent under section 25 (1)(b)/25 (1) (c)/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21(1) of the Air (Prevention & Control of Pollution) Act,1981..

#### 2. Documents Relied Upon:

(a) The content of Environmental Clearance (EC), vide ref. no. J-11011/285/2008-I(A).II(I), dated. 29.03.2011;

(b) The content of Consent to Establish (CTE) (latest), vide Ref. No. 3338, dated. 31.07.2010 of JSPCB, Ranchi;

(c)The content of Consent to Operate (CTO),Ref. No. 310 Dated : 13.02.2018 JSPCB, Ranchi for the period upto 31.03.2020.

(d) The content of IR, vide ref. no.

(i) 205, dated 05.02.2020;

(ii) vide memo no. 443, dated 13.03.2020.

(e) The content of authorization under Hazardous waste valid for the period upto 30.10.2020.

(f) The content of self certificate regarding

(i) procurement of raw material from valid sources;

(ii) no expansion/modification in the plant;

(iii) adjustment of fee from previously submitted CTO applicaiton.

(h) The content of land deed.

3. The consent is granted under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 to operate the project in Mauza -Kamta , P S -Kamta , District -RAMGARH , as follows:

Project	Site-Area		Investment (Rs)	Product & Capacity	Period of CTO
	Plot Nos.	Area			Date of issue To

For Brahmaputra Metallics Limited

*Amit Sahu*  
Director

Before Expansion	As per EC	20.24 Ha (As per previous CTO))	294.61 Crore (As per application)	Sponge Iron - 1,05,000 TPA; Billets 2,00,000 TPA ;Power 20 MW; Fly Ash Bricks - 24 Lacs Bricks/year (as per previous CTO and application)	31/03/2023
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**(A) Specific Conditions:**

1. That, the occupier shall operate and maintain online stack emission monitoring system for particulate matter with connectivity to Jharkhand State Pollution Control Board server and unit shall ensure the data transfer to JSPCB and CPCB server.
2. That, the occupier shall maintain the SO2 analyzer within one month and shall ensure the data transfer to JSPCB and CPCB server.
3. That, the occupier shall dispose off/utilize Coal Char fully & its records should be maintained and shall be submitted to the Board quarterly.
4. That, the occupier shall submit performance evaluation report of pollution control devices and equipment's to the Board within consent period.
5. That, the occupier shall operate the plant with operation of all pollution control equipment's.
6. That, the occupier shall provide information regarding shut down of Air Pollution Control Device and plant within 24 hrs. to the Board.
7. That, the occupier shall cover the coal char with wire mesh and keep it within boundary wall and shall submit the photograph of the same as an evidence to the Board.
8. That, the occupier shall maintain & operate fixed type water sprinkler at all dusty places inside the plant.
9. That, the occupier shall make adequate provision for dust extraction system at potential sources such as jaw crusher hopper, transfer points of materials from conveyor belt, distintegrators, etc.
10. That, the occupier shall construct and maintain the height of stack minimum 2 meter above the roof level as prescribed by the Board.
11. That, the occupier shall make provision for Closed Circuit Television (CCTV) camera rather than keeping small openings in shed for frequent observations and sheds should be provided for plant process machineries/ APCD's.
12. That, the occupier shall pay the cost of transportation of ash used for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of

hundred kilometers from the TPP and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and the TPP.

13. That, the occupier shall adopt the system of the telescopic chute/any other system to reduce the fugitive emission while loading the products into trucks/fine dust in the bags.

14. That, the occupier shall make provision of Personal Protective Equipment (dust mask, helmet, safety shoes, goggles, ear plugs) and ensure their utilization by all the workers during operation of the plant.

15. That, the occupier shall comply all the provisions mentioned in MoEF notification no. GSR 414 (E), dated. 30.05.2008 prescribed in Section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) and its guideline/code of practice for pollution prevention for Sponge Iron Plants.

16. That, the occupier shall pay the entire cost of transportation of ash used for Government Schemes such as road construction projects under Pradhan Mantri Gramin Sadak Yojna, other similar asset creation programmes of the Government involving construction of buildings, road, dams and embankments within a radius of three hundred kilometers.

17. That, the occupier shall provide compliance status of provisions mentioned in Fly Ash Notification, 1999 and further amendments to the CPCB and SPCB as annual implementation report (for the period 1st April to 31st March) by 30th day of April on successive years.

18. That, the occupier shall all the conditions as mentioned in EC and CTO and submit the compliance report of the same alongwith all the requisite documents on periodical basis to the Board and other organizations as per provision.

19. That, the occupier shall operate and maintain air pollution control devices such as ESP, Fume extraction system and bag filters attached to different sections regularly and submit its compliance report to the Board.

20. That, this CTO is valid subject to compliance of all the conditions mentioned in EC.

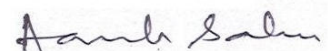
21. That, the occupier shall submit applications for renewal of consent under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expiry of this consent with requisite fee and documents showing compliance of all of the above conditions.

22. That, this CTO supersedes the CTO granted vide ref. no. JSPCB/HO/RNC/CTO-1280911/2018/310, dated 13.02.2018.

**(B) General Conditions :**

(1) That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

For Brahmaputra Metalics Limited

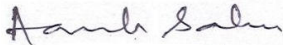


Director

S N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial, Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt.)
(1)	(2)	(3)	(4)	(5)
1.	Sulphur Dioxide (SO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	50 80	20 80
2.	Nitrogen Dioxide (NO <sub>2</sub> ), µg/m <sup>3</sup>	Annual 24 hours	40 80	30 80
3.	Particulate Matter (size less than 10 µm) or PM <sub>10</sub> , µg/m <sup>3</sup>	Annual 24 hours	60 100	60 100
4.	Particulate Matter (size less than 2.5 µm) or PM <sub>2.5</sub> , µg/m <sup>3</sup>	Annual 24 hours	40 60	40 60
5.	Ozone(O <sub>3</sub> ), µg/m <sup>3</sup>	8 hours 1 hour	100 180	100 180
6.	Lead (Pb) µg/m <sup>3</sup>	Annual 24 hours	0.50 1.0	0.50 1.0
7.	Carbon Monoxide (CO) mg/m <sup>3</sup>	8 hours 1 hour	02 04	02 04
8.	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual 24 hours	100 400	100 400
9.	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual	05	05
10.	Benzo(a) Pyrene(BaP) Particulate Phase only ng/m <sup>3</sup>	Annual	01	01
11.	Arsenic (As) ng/m <sup>3</sup>	Annual	06	06
12.	Nickel (Ni) ng/m <sup>3</sup>	Annual	20	20

**Note : Serial no. 1 to 4 – Mandatory  
Serial no. 5 to 12 As applicable for specific type of industry.**

For Brahmaputra Metallics Limited

  
Director

(2) That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:

S N	Parameter	Standard
1	Particulate Matter	150 mg/Nm <sup>3</sup>
2	Sulphur Dioxide	80 mg/Nm <sup>3</sup>
3	Oxides of Nitrogen	80 mg/Nm <sup>3</sup>

(3) That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:

S N	Parameter	Standard
1	Total Suspended Solids	100 mg/L
2	BOD	30 mg/L
3	COD	250 mg/L
4	Oil & Grease	10 mg/L

(4) That, the occupier shall dispose of solid wastes as follows:

S N	Waste Type	Mode of Disposal
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or kilns
2	Hazardous Non-Carbonaceous Wastes	In TSDF
3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of Soil or Mineral

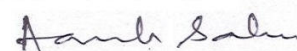
(5) That, the occupier shall keep D G Set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.

(6) That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.

(7) That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.

(8) That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.

For Brahmaputra Metallics Limited



Director

- (9) That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001:2008 and OHSAS 18001:2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.
- (10) That, this CTO is valid subjected to the validity of mining Lease/Mining Plan/Ecofriendly/Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.
- (11) That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/ unit/ occupier.
- (12) That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding , if any, instituted in the past or that could be , instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.
- (13) That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution) Act, 1974; the Water (Prevention & Control of Pollution) Cess Act, 1977; the Air (Prevention & Control of Pollution) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.
4. **That, this CTO shall not absolve the occupier from making compliance of other statutory prescribed under any law or direction of courts or any other instrument for the time being in force.**
5. **That, this CTO is being issued on the basis of information/ documents/ certificate submitted by the unit. This CTO will be revoked if any of the information/documents/certificates/undertaking given by the occupier is found false/fictitious/forged in future.**
6. **The Order shall be valid subject to compliance of all other legal requirements applicable to the unit.**
7. **The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alteration in conditions of this consent.**

**This is issued with the approval of the Competent authority**

RAJEEV  
LOCHAN  
BAKSHI

Digitally signed by  
RAJEEV LOCHAN  
BAKSHI  
Date: 2020.08.10  
11:32:08 +05'30'

**[Rajeev Lochan Bakshi]**

Member Secretary

Memo No. : JSPCB/HO/RNC/CTO-  
7015063/2020/1272

Dated : 2020-08-10

**Copy to:** Sri Kumud Prasad Sahu, M/s Brahmaputra Metallics Limited, Village - Kamta, P.O - Gola, Dist - Ramgarh/ Director of Industry, Government of Jharkhand, Ranchi/ Deputy Commissioner, Ramgarh/ Director of Mines, Government of Jharkhand, Ranchi/ Chief Inspector of Factories, Ranchi/ DFO, Ramgarh/ DMO, Ramgarh/ R O, JSPCB, Hazaribagh /for information & ensuring compliance of the above.

RAJEEV  
LOCHAN  
BAKSHI

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RAJEEV LOCHAN  
BAKSHI  
Date: 2020.08.10  
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**[Rajeev Lochan Bakshi]**

Member Secretary

For Brahmaputra Metallics Limited

*Amb Sahu*

Director



**M/S BRAHMAPUTRA METALLICS LIMITED**

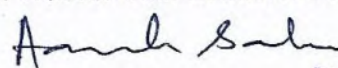
**Village – Kamta, Block – Gola, District – Ramgarh, Jharkhand - 829110**

**COMPLIANCE REPORT OF**

**CONSENT TO OPERATE-REF NO JSPCB/HO/RNC/CTO-7015063/2020/1272, Dated 10-08-2020**

<b>SPECIFIC CONDITIONS</b>	<b>Compliance</b>
1 That, the occupier shall operate and maintain online stack emission monitoring system for particulate matter with connectivity to Jharkhand State Pollution Control Board server and unit shall ensure the data transfer to JSPCB and CPCB server.	Online Monitoring System for Stack emission maintain and data being transferred to JSPCB and CPCB.
2 That, the occupier shall maintain the SO2 analyzer within one month and shall ensure the data transfer to JSPCB and CPCB server.	Complied. SO2 analyzer installed and data is being transferred to JSPCB and CPCB servers.
3 That, the occupier shall dispose off/utilize Coal Char fully & its records should be maintained and shall be submitted to the Board quarterly	Coal Char generated from the DRI plant is fully utilized in CPP for power generation. Records are maintained
4 That, the occupier shall submit performance evaluation report of pollution control devices and equipment's to the Board within consent period.	Pollution control devices are working satisfactory as per online monitoring data transferred to the Board.
5 That, the occupier shall operate the plant with operation of all pollution control equipment's.	Complied.
6 That, the occupier shall provide information regarding shut down of Air Pollution Control Device and plant within 24 hrs. to the Board.	Being complied.
7 That, the occupier shall cover the coal char with wire mesh and keep it within boundary wall and shall submit the photograph of the same as an evidence to the Board	Coal Char is fully utilized in power plant. Rest covered with Tarpoline (photograph attached) as well as water sprinkling done to arrest fugitive dust
8 That, the occupier shall maintain & operate fixed type water sprinkler at all dusty places inside the plant	Fixed water sprinklers installed and maintained.

For BRAHMAPUTRA METALLICS LIMITED



Director

9	That, the occupier shall make adequate provision for dust extraction system at potential sources such as jaw crusher hopper, transfer points of materials from conveyor belt, distintegrators, etc	Dust extraction system with bag filters installed at all fugitive emission sources.
10	That, the occupier shall construct and maintain the height of stack minimum 2 meter above the roof level as prescribed by the Board	Complied
11	That, the occupier shall make provision for Closed Circuit Television (CCTV) camera rather than keeping small openings in shed for frequent observations and sheds should be provided for plant process machineries/ APCD's	Complied
12	That, the occupier shall pay the cost of transportation of ash used for road construction projects or for manufacturing of ash based products or use as soil conditioner in agriculture activity within a radius of hundred kilometers from the TPP and the cost of transportation beyond the radius of hundred kilometers and up to three hundred kilometers shall be shared equally between the user and the TPP.	Fly ash is used in house for manufacturing of fly ash bricks and rest is supplied to outside agencies for road construction works.
13	That, the occupier shall adopt the system of the telescopic chute/any other system to reduce the fugitive emission while loading the products into trucks/fine dust in the bags	Water sprinkling system installed to reduce fugitive emission in loading of product section.
14	That, the occupier shall make provision of Personal Protective Equipment (dust mask, helmet, safety shoes, goggles, ear plugs) and ensure their utilization by all the workers during operation of the plant	Complied. All the Personal Protective Equipments are provided to the workers.
15	That, the occupier shall comply all the provisions mentioned in MoEF notification no. GSR 414 (E), dated. 30.05.2008 prescribed in Section 6 and 25 of the Environment (Protection) Act, 1986 (29 of 1986) and its guideline/code of practice for pollution prevention for Sponge Iron Plants	All the applicable provisions of Environmental Act and Rules are complied.

For BRAHMAPUTRA METALLICS LIMITED

*Anand Saha*

Director

16	That, the occupier shall pay the entire cost of transportation of ash used for Government Schemes such as road construction projects under Pradhan Mantri Gramin Sadak Yojna, other similar asset creation programmes of the Government involving construction of buildings, road, dams and embankments within a radius of three hundred kilometers.	Noted and assure to comply.
17	That, the occupier shall provide compliance status of provisions mentioned in Fly Ash Notification, 1999 and further amendments to the CPCB and SPCB as annual implementation report (for the period 1st April to 31st March) by 30th day of April on successive years	Being Complied. Ash is used in house for production of fly ash bricks and supplied to road construction projects. (Compliance status attached)
18	That, the occupier shall all the conditions as mentioned in EC and CTO and submit the compliance report of the same along with all the requisite documents on periodical basis to the Board and other organizations as per provision.	Complied. Half-Yearly compliance report is submitted regularly.
19	That, the occupier shall operate and maintain air pollution control devices such as ESP, Fume extraction system and bag filters attached to different sections regularly and submit its compliance report to the Board.	All the pollution control devices are maintained regularly.
20	That, this CTO is valid subject to compliance of all the conditions mentioned in EC.	Agreed. All the conditions of EC are being complied.
21	That, the occupier shall submit applications for renewal of consent under section 25 / 26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21 of the Air (Prevention & Control of Pollution) Act, 1981 again 120 days prior to the date of expiry of this consent with requisite fee and documents showing compliance of all of the above conditions	Assure to comply.
22	That, this CTO supersedes the CTO granted vide ref. no. JSPCB/HO/RNC/CTO-1280911/2018/310, dated 13.02.2018	Agreed.

For BRAHMAPUTRA METALLICS LIMITED

*Aamir Saha*

Director

**GENERAL CONDITIONS**

That, the occupier shall maintain the **National Ambient Air Quality Standard** given below:

S.N	Pollutant	Time Weighted Average	Concentration in Ambient Air	
			Industrial Residential, Rural and Other Area	Ecologically Sensitive Area (notified by Central Govt)
(1)	(2)	(3)	(4)	(5)
1	Sulphur Dioxide (SO <sub>2</sub> ), µ/m <sup>3</sup>	Annual 24Hours	50 80	20 80
2	Nitrogen Dioxide (NO <sub>2</sub> ), µ/m <sup>3</sup>	Annual 24Hours	40 80	30 80
3	Particulate Matter (Size less than 10 µm) or PM <sub>10</sub> µ/m <sup>3</sup>	Annual 24Hours	60 100	60 100
4	Particulate Matter (Size less than 10 µm) or PM <sub>2.5</sub> µ/m <sup>3</sup>	Annual 24Hours	40 60	40 60
5	Ozone (O <sub>3</sub> ), µg/m <sup>3</sup>	8Hours 1Hour	100 180	100 180
6	Lead (Pb) µg/m <sup>3</sup>	Annual 24Hours	0.50 1.0	0.50 1.0
7	Carbon Monoxide (CO) mg/m <sup>3</sup>	8Hours 1Hour	02 04	02 04
8	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>	Annual	100 400	100 400
9	Benzene (C <sub>6</sub> H <sub>6</sub> ) µg/m <sup>3</sup>	Annual 24Hours	05	05
10	Benzo(a) Pyrene (BaP) Particulate Phase only ng/m <sup>3</sup>	Annual	01	01
11	Arsenic (As) ng/m <sup>3</sup>	Annual	06	06
12	Nikel (Ni) ng/m <sup>3</sup>	Annual	20	20

**Note: Serial no. 1 to 4 – Mandatory.  
Serial no. 5 to 12 As applicable for specific type of industry.**

1

AAQ maintained as per norms. Monitoring reports for the period attached

For BRAHMAPUTRA METALLICS LIMITED

*Aamir Sah*

Director

2	<p>That, the occupier shall maintain the emission quality within the standard and the quantity, as follows:</p> <table border="1" data-bbox="256 434 1043 584"> <thead> <tr> <th>S.N.</th> <th>Parameter</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Particulate Matter</td> <td>150 mg/Nm<sup>3</sup></td> </tr> <tr> <td>2</td> <td>Sulphur Dioxide</td> <td>80 µg/ Nm3</td> </tr> <tr> <td>3</td> <td>Oxides of Nitrogen</td> <td>80 µg/ Nm3</td> </tr> </tbody> </table>	S.N.	Parameter	Standard	1	Particulate Matter	150 mg/Nm <sup>3</sup>	2	Sulphur Dioxide	80 µg/ Nm3	3	Oxides of Nitrogen	80 µg/ Nm3	<p>Emission well within the standard limit.</p> <p>Stack emission Below 150 mg/Nm3, monitoring reports attached</p>			
S.N.	Parameter	Standard															
1	Particulate Matter	150 mg/Nm <sup>3</sup>															
2	Sulphur Dioxide	80 µg/ Nm3															
3	Oxides of Nitrogen	80 µg/ Nm3															
3	<p>That, the occupier shall keep process effluent in close-circuit and the quality of effluent from other sources in conformity with the standard (s) and the discharge quantity as below:</p> <table border="1" data-bbox="256 853 1043 1039"> <thead> <tr> <th>S.N.</th> <th>Parameter</th> <th>Standard</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Total Suspended Solids</td> <td>100 mg/L</td> </tr> <tr> <td>2</td> <td>BOD</td> <td>30 mg/L</td> </tr> <tr> <td>3</td> <td>COD</td> <td>250 mg/L</td> </tr> <tr> <td>4</td> <td>Oil &amp; Grease</td> <td>10 mg/L</td> </tr> </tbody> </table>	S.N.	Parameter	Standard	1	Total Suspended Solids	100 mg/L	2	BOD	30 mg/L	3	COD	250 mg/L	4	Oil & Grease	10 mg/L	<p>No discharge outside. Waste water is fully recycle and reused.</p>
S.N.	Parameter	Standard															
1	Total Suspended Solids	100 mg/L															
2	BOD	30 mg/L															
3	COD	250 mg/L															
4	Oil & Grease	10 mg/L															
4	<p>That, the occupier shall dispose of solid wastes as follows:</p> <table border="1" data-bbox="256 1122 1093 1532"> <thead> <tr> <th>S.N.</th> <th>Waste Type</th> <th>Mode of Disposal</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Hazardous Carbonaceous Wastes</td> <td>In co-processing in high temperature furnaces or Kilns.</td> </tr> <tr> <td>2</td> <td>Hazardous Non-Carbonaceous Wastes</td> <td>In TSDF</td> </tr> <tr> <td>3</td> <td>Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden</td> <td>As a substitute of soil or Mineral</td> </tr> </tbody> </table>	S.N.	Waste Type	Mode of Disposal	1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or Kilns.	2	Hazardous Non-Carbonaceous Wastes	In TSDF	3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of soil or Mineral	<p>Solid wastes are disposed as per guidelines.</p>			
S.N.	Waste Type	Mode of Disposal															
1	Hazardous Carbonaceous Wastes	In co-processing in high temperature furnaces or Kilns.															
2	Hazardous Non-Carbonaceous Wastes	In TSDF															
3	Non-Carbonaceous Non-Hazardous solid wastes/ Mine Over Burden	As a substitute of soil or Mineral															
5	<p>That, the occupier shall keep DG set(s) within acoustic enclosure and shall keep the height(s) of exhaust pipe(s) as per Central Pollution Control Board norm.</p>	<p>Silent type D.G. set installed and exhaust pipe raised as per norms.</p>															
6	<p>That, the occupier shall install and maintain Central Ground Water Board/ State Ground Water Directorate approved system of rain water harvesting-cum-ground water recharge and submit the photographic view of the structures within a month.</p>	<p>Rain water harvesting-cum- ground water discharge system installed as per guidelines.</p>															

For BRAHMAPUTRA METALLICS LIMITED

*Aamh Sahu*

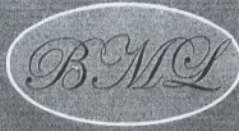
Director

7	That, the occupier shall grow and maintain greenery of the project in the periphery and other available spaces and shall continue enhancing its plant density and biodiversity.	Greenery in the periphery and other available spaces are maintained and being continued.
8	That, the occupier shall submit environmental statement with supporting stoichiometric calculations analyses reports, every year latest by 30th September of the next financial year.	Complied.
9	That, the occupier shall submit report(s) duly monitored and issued by an NABL accredited / ISO 9001: 2007 certified laboratory in compliance sub-para (2), (3), (4) and (5) of paragraph 3 of this CTO yearly at required periodicity.	Reports duly monitored by NABL accredited lab attached.
10	That, this CTO is valid subjected to the validity of mining lease/Mining Plan/Ecofriendly/ Environmental Clearance, if applicable. In case of no renewal of Mining Lease/Mining Plan, this consent shall be treated as revoked automatically.	Agreed
11	That, this CTO is issued from the environmental angle only and does not absolve the occupier from other statutory obligations prescribed under any under any other law or any other instrument in force. The sole and complete responsibility to comply with these conditions laid down in all other laws for the time-being in force, rests with the industry/unit/occupier.	All applicable statutory obligations are being complied.
12	That, this CTO shall not in any way, adversely affect or jeopardize the legal proceeding, if any instituted in past or that could be, instituted against you by the State Board for violation of the provisions of the Act or the Rules made there under.	Agreed
13	That, the occupier shall comply with all applicable provisions of the Water (Prevention & Control of Pollution ) Act, 1974, the Water (Prevention & Control of Pollution ) Cess Act, 1977, the Air (Prevention & Control of Pollution ) Act, 1981; and the Environment (Protection) Act, 1986 and Rules made there under.	All applicable provisions of the Acts and Rules are being complied.

For BRAHMAPUTRA METALLICS LIMITED

*Amit Sahu*

Director



# BRAHMAPUTRA METALLICS LIMITED

Works : Village-Kamta, Block- Gola, Distt. - Ramgarh - 829210 (Jharkhand)

Dated: - May 29, 2020

To  
The Member Secretary  
Jharkhand State Pollution Control Board,  
T. A Division Building,  
Dhurwa, Ranchi, Jharkhand.

**Subject: - Submission of Environmental Statement for Our Sponge Iron. Power Plant & Billets unit. for the Financial year 31st March 2020.**

Sir,

With reference to the above we are herewith submitting the Environment Statement combined for all the units in our plant as per Rules.

This is for your kind information & needful.

Thanking you

Yours truly

For Brahma Putra Metallics Limited

*Aankh Sahu*

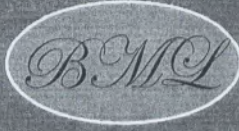
Director

Cc: - Regional Officer JSPCB, Hazaribagh for information and needful.



For Brahma Putra Metallics Limited

*Aankh Sahu*  
Director



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BRAHMAPUTRA METALLICS LIMITED

*Aashu Sahu*

DIRECTOR

Director

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*Received*  
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*15/6/20*  
ब्रह्मपुत्र मेटल्लिक्स लिमिटेड  
रांची, झारखण्ड

For Brahma Putra Metallics Limited

*Aashu Sahu*  
Director



From V  
(see Rule 14)

**COMBINED – EXISTING (DRI & CPP) AND EXPANSION (BILLETS) UNIT**  
*Environmental Statement for the financial year ending the 31<sup>st</sup> March 2020.*

**PART-A**

- 1) Name & Address of the Owner /Occupier: **Brahmaputra Metalics Ltd.,  
Kanta, Gola, Ramgarh.**
- 2) Industry category (SSI Code): **Primary – Iron & Steel with Power**
- 3) Production capacity (Units): **Sponge Iron – 350 TPD & Power – 20 MW  
& Billets – 600 TPD**
- 4) Date of the last environmental statement: **06th June 2019.**
- 5) Year of establishment: **2010-11**

**PART- B**

Water and Raw Materials Consumption **2496 KLD**  
**Process: 1675 KLD**  
**Cooling/(Others Sprinkling): 801 KLD**  
**Domestic: 20 KLD**

Name of the Products		Process water consumption per unit of Product output	
		During the previous Financial year	During the current financial year(2017-18)
(1) <b>Sponge Iron</b>		<b>Cooling – 0.93 KL/T</b>	<b>Cooling – 1.049 KL/T</b>
(2) <b>Power</b>		<b>3.446KL / MW</b>	<b>3.50 KL / MW</b>
(3) <b>Billets</b>		<b>Cooling – 1.013 KL/T</b>	<b>Cooling – 1.076 KL/T</b>
(ii) Raw Material Consumption			
Name of Material	Name of Product	Consumption of raw material per Unit of product output	
		During the previous financial year	During the current financial year(2017-18)
<b>Iron Ore/Pellets</b> <b>Coal</b> <b>Dolo/Limest</b>	<b>Sponge Iron</b>	<b>1.578 T/T</b>	<b>1.548 T/T</b>
		<b>1.186 T/T</b>	<b>1.251 T/T</b>
		<b>0.052 T/T</b>	<b>0.064 T/T</b>
<b>Coal &amp; Fines</b> <b>Dolochar</b>	<b>Power</b>	<b>0.508 T/MW</b>	<b>0.470 T/MW</b>
		<b>0.211 T/MW</b>	<b>0.268T/MW</b>
<b>Sponge Iron</b> <b>Pig Ir/Scrap</b> <b>Ferro Alloys</b>	<b>Billets</b>	<b>1.038 T/T</b>	<b>1.050 T/T</b>
		<b>0.185 T/T</b>	<b>0.131 T/T</b>
		<b>0.014 T/T</b>	<b>0.011 T/T</b>
Industry May use code if discharge details of Raw Materials would violate contractual obligation, otherwise and industries have to name the raw materials.			

BRAMPUTRA METALICS LIMITED  
*Amit Kumar*  
 DIRECTOR

<u>PART-C</u>			
Discharged in the Environment unit Output (Parameter as certified in the consent issued)			
1. Pollutants	Quantity of pollutants discharged (Mass/day)	concentrations of pollution in discharged (mg/m <sup>3</sup> )	Variation from prescribed Std. with reasons
(a) Water	<i>Nil</i>	<i>Nil</i>	<i>No industrial effluent discharge</i>
(b) Air	<i>Particulate Matter</i>	<i>&lt;50mg/Nm<sup>3</sup></i>	<i>Monitoring done by recognized lab enclosed</i>
<u>PART-D</u>			
(As specified under Hazardous Waste/Management and Handling Rules, 1989)			
Hazardous Waste	Total Quantity(Kg.)		
	During the previous Financial year	During the current financial year(2017-18)	
(a) From Process	<i>Used Oil – 0.35 KL</i>	<i>Used Oil – 0.40 KL (From machineries)</i>	
(b) From pollution Control Facilities	<i>Nil</i>	<i>Nil</i>	
<u>PART-E</u>			
Solid Waste			
	Total Quantity (Kg.)		
	During the previous Financial year (2018-19)	During the current Financial year (2019-20)	
(a) From Process	<i>Dolochar – 28408.00 T</i>	<i>Dolochar – 34115.00T</i>	
	<i>Slag – 30843.64 T</i>	<i>Slag – 30799.11 T</i>	
(b) From Pollution Control Facilities	<i>Fly ash – 89092T Dust – 15945 T</i>	<i>Fly ash – 100319T Dust – 15722 T</i>	
(c) Quantity recycled or re-utilized Within the unit (CPP & Road)	<i>31055.00 T</i>	<i>47390.00 T</i>	
(ii) Sold	<i>287.49 T</i>	<i>3735.26 T</i>	
(iii) Disposed	<i>94783.86T</i>	<i>77710.15T(Fly Ash for road filling and dust to Agarbatti Manufacturer.)</i>	

*Anand Lal*

DIRECTOR

PART-F

Please specify the characterization (in the term of consumption and quantity) of Hazardous as well as solid waste and disposal practice adapted for both these Categories of waste.

**No Hazardous waste is generated in any process. All spent oil is used for gear and CCM lubrication. Generation in FY 0.4 KL**

**Solid waste generated Dolochar – reused for power generation. PCS dust recycled to raw materials or supplied to Agarbatti manufacturers. Fly ash sent for Raod construction.**

**No disposal of any hazardous waste / solid waste outside the premises**

PART-G

Impact of the pollution abatement measures taken on conservation of natural resource and on production

**Latest technology available for the plant has implemented to conserve resources. Optimization of production vis-à-vis raw material consumption**

**The de-dusting equipment have been installed by the leading organization of India in Air Pollution Control Devices. All the units have been designed to meet the latest standards.**

**AAQ and other emissions are within the norms.**

PART-H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.

**Plantation done and continued. All dedusting equipments are cleaned and being maintained at regular intervals to work at the rated efficiency to arrest the pollutants.**

**Rain Water harvesting implemented within the premises as approved by GWD, GOJ. Water kept in closed circuit and waste water used for horticulture.**

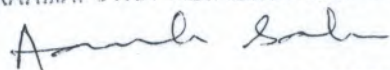
**Rs. 12.23 Lakhs spent during the financial year 2019-20 for maintenance of the pollution control equipment and environment management system.**

PART-I

Any other particulars for improving the quantity of the environment.

**“We have done plantation and are being maintained for cleaner environment within the campus and naturally the nearby the environment also.”**

BRAHMAPUTRA METALLICS LIMITED



DIRECTOR



For Brahmaputra Metallics Limited

*Aarib Saha*  
Director

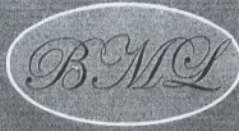


For Brahmaputra Metallics Limited  
*Anand Saha*  
Director



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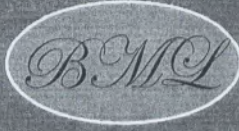
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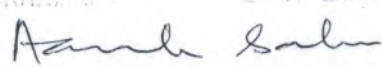
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Name of the Products		Process water consumption per unit of Product output	
		During the previous Financial year	During the current financial year(2017-18)
(1) <b>Sponge Iron</b>		<b>Cooling – 0.93 KL/T</b>	<b>Cooling – 1.049 KL/T</b>
(2) <b>Power</b>		<b>3.446KL / MW</b>	<b>3.50 KL / MW</b>
(3) <b>Billets</b>		<b>Cooling – 1.013 KL/T</b>	<b>Cooling – 1.076 KL/T</b>
(ii) Raw Material Consumption			
Name of Material	Name of Product	Consumption of raw material per Unit of product output	
		During the previous financial year	During the current financial year(2017-18)
<b>Iron Ore/Pellets Coal Dolo/Limest</b>	<b>Sponge Iron</b>	<b>1.578 T/T</b>	<b>1.548 T/T</b>
		<b>1.186 T/T</b>	<b>1.251 T/T</b>
		<b>0.052 T/T</b>	<b>0.064 T/T</b>
<b>Coal &amp; Fines Dolochar</b>	<b>Power</b>	<b>0.508 T/MW</b>	<b>0.470 T/MW</b>
		<b>0.211 T/MW</b>	<b>0.268T/MW</b>
<b>Sponge Iron Pig Ir/Scrap Ferro Alloys</b>	<b>Billets</b>	<b>1.038 T/T</b>	<b>1.050 T/T</b>
		<b>0.185 T/T</b>	<b>0.131 T/T</b>
		<b>0.014 T/T</b>	<b>0.011 T/T</b>
Industry May use code if discharge details of Raw Materials would violate contractual obligation, otherwise and industries have to name the raw materials.			

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<u>PART-C</u>			
Discharged in the Environment unit Output (Parameter as certified in the consent issued)			
1. Pollutants	Quantity of pollutants discharged (Mass/day)	concentrations of pollution in discharged (mg/m <sup>3</sup> )	Variation from prescribed Std. with reasons
(a) Water	<i>Nil</i>	<i>Nil</i>	<i>No industrial effluent discharge</i>
(b) Air	<i>Particulate Matter</i>	<i>&lt;50mg/Nm<sup>3</sup></i>	<i>Monitoring done by recognized lab enclosed</i>
<u>PART-D</u>			
(As specified under Hazardous Waste/Management and Handling Rules, 1989)			
Hazardous Waste	Total Quantity(Kg.)		
	During the previous Financial year	During the current financial year(2017-18)	
(a) From Process	<i>Used Oil – 0.35 KL</i>	<i>Used Oil – 0.40 KL (From machineries)</i>	
(b) From pollution Control Facilities	<i>Nil</i>	<i>Nil</i>	
<u>PART-E</u>			
Solid Waste			
	Total Quantity (Kg.)		
	During the previous Financial year (2018-19)	During the current Financial year (2019-20)	
(a) From Process	<i>Dolochar – 28408.00 T</i>	<i>Dolochar – 34115.00T</i>	
	<i>Slag – 30843.64 T</i>	<i>Slag – 30799.11 T</i>	
(b) From Pollution Control Facilities	<i>Fly ash – 89092T Dust – 15945 T</i>	<i>Fly ash – 100319T Dust – 15722 T</i>	
(c) Quantity recycled or re-utilized Within the unit (CPP & Road)	<i>31055.00 T</i>	<i>47390.00 T</i>	
(ii) Sold	<i>287.49 T</i>	<i>3735.26 T</i>	
(iii) Disposed	<i>94783.86T</i>	<i>77710.15T(Fly Ash for road filling and dust to Agarbatti Manufacturer.)</i>	

*Anand Lal*

DIRECTOR

PART-F

Please specify the characterization (in the term of consumption and quantity) of Hazardous as well as solid waste and disposal practice adapted for both these Categories of waste.

**No Hazardous waste is generated in any process. All spent oil is used for gear and CCM lubrication. Generation in FY 0.4 KL**

**Solid waste generated Dolochar – reused for power generation. PCS dust recycled to raw materials or supplied to Agarbatti manufacturers. Fly ash sent for Raod construction.**

**No disposal of any hazardous waste / solid waste outside the premises**

PART-G

Impact of the pollution abatement measures taken on conservation of natural resource and on production

**Latest technology available for the plant has implemented to conserve resources. Optimization of production vis-à-vis raw material consumption**

**The de-dusting equipment have been installed by the leading organization of India in Air Pollution Control Devices. All the units have been designed to meet the latest standards.**

**AAQ and other emissions are within the norms.**

PART-H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution.

**Plantation done and continued. All dedusting equipments are cleaned and being maintained at regular intervals to work at the rated efficiency to arrest the pollutants.**

**Rain Water harvesting implemented within the premises as approved by GWD, GOJ. Water kept in closed circuit and waste water used for horticulture.**

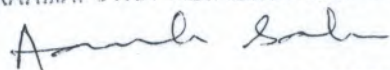
**Rs. 12.23 Lakhs spent during the financial year 2019-20 for maintenance of the pollution control equipment and environment management system.**

PART-I

Any other particulars for improving the quantity of the environment.

**“We have done plantation and are being maintained for cleaner environment within the campus and naturally the nearby the environment also.”**

BRAHMAPUTRA METALLICS LIMITED



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