

Ref. MSPL\_Nakrajoria/ENV COMPL /Dec-2021

Date: 03/12/2021

To,

**Ministry of Environment and Forests, Climate Change  
Integrated Regional Office  
Kolkata-IB-198, Sector-III  
Salt Lake City, Kolkata-700106  
West Bengal**

**Sub. Six Monthly (December 2021) compliance report for M/s Maithan Steel & Power Limited**

**Ref: - EC No- J -11011/679/2008-IA II (I); Dated 16<sup>th</sup> April 2019 and amended dated 14<sup>th</sup> October, 2019**

Dear Sir,

With reference to the above, we are hereby submitting the six monthly compliance reports period from April 2021 to September 2021 for EC No- J -11011/679/2008-IA II (I); Dated 16<sup>th</sup> April 2019 and amended dated 14<sup>th</sup> October 2019; for expansion of Steel Melting Shop (IF with LF & CCM: from 135000 TPA to 375000 TPA; Rolling Mill: from 90000 TPA to 297000 TPA; Cold Drawing Workshop: 33000 TPA at Nakrajoria, PS-Salanpur, Dist-Burdwan (W), West Bengal in the name of M/s Maithan Steel & Power Limited, in soft copy format vide mail.

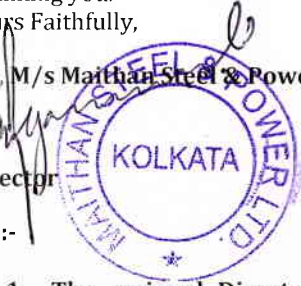
Hope you will find the same in order.

Thanking you.  
Yours Faithfully,

For, M/s Maithan Steel & Power Limited

Director

C.C.:-



1. The regional Director, Central Pollution Control Board (Eastern Zonal Office), 'Southend Enclave', 502, 5<sup>th</sup> Floor, 1582, Rajdanga Main Road, Kolkata-700107
2. The Senior Environmental Engineer, Asansol Regional Office, West Bengal Pollution Control Board, ADDA, Commercial Market (2<sup>nd</sup> Floor), Opposite Asansol Fire Station, GT Road, Asansol, Dist.- Paschim Bardhaman, Pin-713301

**Enclosures:-**

1. Compliance Report for EC;
2. Copy of OCEMS data from April, 2021 to September, 2021 as Annexure-I.
3. Copy of Stack emission data as Annexure-II.
4. Copy of Fugitive Emission Report as Annexure-III.
5. Copy of AAQM Report as Annexure-IV.
6. Copy of Drinking water quality report as Annexure-V.
7. Copy of effluent water analysis report as Annexure-VI.
8. Copy of Ambient & Work Noise Quality Monitoring Report Annexure-VII.
9. Copy of Occupational Health Report as Annexure-VIII.
10. Copy of CER cost as Annexure-IX.
11. Recurring Cost Detail as Annexure-X.

**Registered Office**

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P.O. Bonra-723121,  
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Mouza-Nakrajoria,  
P.O. & P.S. - Salanpur,  
Dist. Paschim Bardhaman, PIN-713357 (W.B.)  
P : +91 341-2532205

Name of the Project: -

Expansion of Steel Melting Shop (IF with LF & CCM: from 1,35,000 TPA to 3,75,000 TPA; Rolling Mill: from 90000 TPA to 297000 TPA; Cold Drawing Workshop: 33,000 TPA by M/s Maithan Steel & Power Ltd located at Nakrajoria, P.S-Salanpur, Dist-Burdwan (W), W.B

Clearance Letter/s No. and date: -

EC No- J-11011/679/2008-IA-II (I) dated 16.04.2019 and amended dated 14.10.2019

Period of Compliance Report -

April'2021 to September'2021

**A. Specific Conditions:**

Sr. No	Conditions	Compliance Status
	The project proponent shall plan for re-charging of rain water equivalent to the amount of the water abstracted from the ground.	For the current operational plant, water requirement is fulfilled by <b>surface water</b> from Damodar Valley Corporation (DVC) after obtaining the permission from the concerned authority. So, ground water is not abstracted for the project.
ii	100% hot charging has to be done and no reheating furnace will be used.	For the current operational plant, there is no provision of re heating furnace as 100% hot metal will pass through CCM to hot rolling mill.

**B. General Conditions:**

<b>I. Statutory Compliance</b>		
Sr. No	Conditions	Compliance Status
i	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of pollution) Act, 1981 and the water (prevention & Control of Pollution) Act, 1974 from the state pollution Control Board/Committee.	Already being complied with Consent to establish and consent to operate permissions have been obtained for the installation and operation of 1, 83,000 TPA SMS (4 x 15 T I.F with matching LRF & CCM), 1, 98, 000 TPA Rolling Mill (1 x 600 TPD) & 33,000 TPA Cold Drawing Workshop (1X100 TPD) and recently another consent to Operate permission is obtained for 1,92,000 TPA (3 x 20 T I.F with matching LRF & CCM), 99,000 TPA Rolling Mill (1 x 300 TPD)



		dated 28.09.2021 from West Bengal Pollution Control Board.
ii	The project Proponent Shall obtain the necessary permission from the central ground water Authority, in case of drawl of ground water from the competent authority Concerned in case of drawl of surface water required for the project.	Ground water is not used for the project. Hence permission from CGWA/concerned authority is not necessary.
iii	The project proponent shall obtain authorization under the Hazardous and other waste Management Rules, 2016 as amended from time to time.	Already being complied with Hazardous Waste Authorization certificate is obtained from concerned department of WBPCB. Authorization memo no: 10/2S (HW)-4406/2020 dated 28.01.2021, which is valid up to 30.10.2025.
<b>II. Air quality monitoring and preservation</b>		
i	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack with respect to standards prescribed in Environment (Protection) Rules 1986(G.S.R 414 (E) dated 30th May 2008 as amended from time to time; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants)as amended from time to time)and connect the system to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited Laboratories.	The Online Continuous Emission Monitoring System (OCEMS) is installed with the process stack connected with currently operational 4 x 15 T I.F as per CPCB guidelines and the 24x7 online data is transferred to CPCB server through online portal. The OCEMS data for the six monthly period (April, 21 to September, 21) is attached as <b>Annexure- I</b> .  Stack Emission is monitored at 4 x 15 T I.F by third party monitoring agency M/s Eco Care, Asansol which is NABL accredited laboratory. As per the stack emission monitoring report submitted, stack emission is monitored in the month of September, 2021.  Stack Emission Report is attached as <b>Annexure-II</b> .
ii	The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognized under Environment (protection) act, 1986 or NABL accredited laboratories.	Already Being complied with & will be complied too  Fugitive Emissions are monitored Near Raw Material Shed and near SMS area by third party monitoring agency M/s Eco Care, Asansol which is NABL accredited laboratory. As per the fugitive emission monitoring reports submitted, fugitive emissions were monitored in the month of September, 2021.



		Fugitive Emission Report is attached as <b>Annexure-III.</b>
iii	The project proponent shall install carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120 ° each), covering upwind and downwind directions.	<p>Already Being complied with &amp; will be complied too</p> <p>Ambient Air Quality Monitoring (AAQM) is being done on regular basis by WBPCB/ MoEF&amp;CC/ NABL accredited laboratories.</p> <p>Ambient Air Quality (AAQ) are monitored at four locations viz. Near Plant Main Gate inside premises and near Salanpur village, Near Nakrajoria village &amp; near Dendua Village outside the plant premises by third party monitoring agency Eco Care, Asansol which is NABL accredited laboratory. As per the ambient Air Quality monitoring reports submitted, ambient emissions were monitored in the month of September, 2021.</p> <p>AAQM Reports are attached as <b>Annexure - IV.</b></p>
iv	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring of air quality /fugitive emissions to Regional office of MoEF&CC, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	<p>Already Being complied with &amp; will be complied too</p> <p>The 24 x 7 OCEMS data, stack monitoring report, Ambient Air Quality &amp; Fugitive emission reports are attached with this report for your ready reference.</p>
v	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources, so as to comply prescribed stack emission and fugitive emission standards.	<p>Already Being complied with &amp; will be complied too</p> <p>Existing SMS (04 x 15 T-I.F &amp; 03 x 20 T I.F) are equipped with bag filters, hood and I.D. Fans. All bag houses are design to meet the standard below prescribed limit and an adequate dust suppression is provided in material storage sheds, material unloading and transfer points for controlling fugitive emission and the dust from APC devices are collected and reused in the process.</p> <p>To mitigate the fugitive emission movable water sprinkler tanker &amp; fixed water sprinklers have been used inside the plant</p>





		premises and dedicated manpower is continuously engaged to control the fugitive emission inside the plant premises.
vi	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better functioning of bag houses.	<p>Already being complied with &amp; will be complied too</p> <p>From visual observation of stack emissions and differential pressure check in bag house, damage of bags is detected &amp; damage bags are replaced taking S/D of IF unit. In running condition bags are cleaned by pulse air jet using cleaning timer cycle.</p>
vii	Provide Pollution Control system in the sponge iron plant as per CREP Guidelines of CPCB.	<p>Not Applicable</p> <p>The unit is not having any sponge iron plant.</p>
viii	Sufficient number of mobile or stationary vacuum cleaners shall be provided to clean plant roads shop floors, roofs, regularly.	Already Being complied with
ix	Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution devices and vacuum cleaning devices in the process after briquetting / agglomeration.	<p>Not Applicable</p> <p>For the current operational plant, iron ore, coal or coke are not used in the process.</p>
x	The project proponent shall ensure covered transportation and conveying of ore, coal and other raw material to prevent spillage and dust generation;	<p>Already Being complied with</p> <p>For the current operational plant, raw materials are coming to plant through fully covered trucks and without valid PUC, no truck is not allowed to enter inside the plant premises.</p>
xi	Wind shelter fence and chemical spraying shall be provided on the raw material stock piles.	Unit uses sponge iron, Pig iron and iron scrap as raw materials. So wind shelter fence and chemical spraying are not applicable. Instead of using wind shelter we are using covered shed.
<b>III. Water quality monitoring and preservation</b>		



i	The project proponent shall install effluent monitoring system with respect to standards prescribed in Environment (protection) Rules 1986 (G.S.R 414 (E) dated 30th may 2008; S.O. 3305 (E) dated 7th December 2015 (Thermal Power Plants) as amended from time to time and connected to SPCB and CPCB online servers and calibrate these system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)	As the plant is based on "Zero Liquid Discharge" concept, so no waste water is discharged outside the plant premises.  For the current operational plant, the water is only used for cooling which is reused in process and the domestic waste water is reused for developing green belt and dust suppression system after treating in the Sewage Treatment Plant.
ii	The project proponent shall monitor regularly the ground water quality at least twice a year (pre and post monsoon) at sufficient numbers of piezometers/sampling wells in the plant and adjacent areas through labs recognized under Environment(protection) Act,1986 and NABL accredited laboratories.	Agreed.
iii	The project proponent shall submit monthly summary report of continuous effluent monitoring and results of manual effluent testing and manual monitoring of ground water quality to Regional office of MoEF&CC, zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Already Being complied with & will be complied too  Drinking water & Effluent Water monitoring is being done on regular basis WBPCB/ MoEF&CC/ NABL accredited laboratories. Eco Care, West Bengal which is NABL/ MoEF accredited laboratory has done the drinking water quality analysis at the tap near Central Store and effluent water analysis report of STP inlet and STP outlet in the month of September, 2021.  The drinking water analysis reports are attached in Analysis Report as <b>Annexure - V</b> and effluent water analysis reports are attached as <b>Annexure-VI</b> .
iv	Adhere to 'zero liquid Discharge'.	Already being complied with & will be complied too  As the plant is based on "Zero Liquid Discharge" concept, so no waste water is discharged outside the plant premises.  The water is only used for cooling which is reused in process and the domestic waste



		<p>water is reused for developing green belt and dust suppression system after treating in the Sewage Treatment Plant.</p> <p>Effluent water analysis reports of STP inlet &amp; STP outlet are attached as <b>Annexure-VI</b>.</p>
v	Sewage Treatment plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	<p>Already Being complied with</p> <p>We have already installed 100 KLD STP for domestic waste water and it is working properly.</p>
vi	Garland drains and collection pits shall be provided for each stock pile to arrest the run off in the event of heavy rains and to check the water pollution due to surface run off.	<p>Already Being complied with &amp; Will be complied too</p> <p>Garland drains have been constructed to arrest the surface run off water during the event of rain and it is collected in the storm water pond.</p>
vii	The project proponent shall practice rainwater harvesting to maximum possible extent.	Rain water harvesting system is being implemented. The rain water is being harvested & stored in the rainwater harvesting pond through proper pipeline network and it is being used in the process during summer season.
viii	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation and treatment of used water, practicing cascade use and by recycling treated water.	<p>Already Being complied with &amp; Will be complied too</p> <p>The water is only used for cooling which is reused in process and the domestic waste water is reused for developing green belt and dust suppression system after treating in the Sewage Treatment Plant.</p>
<b>IV. Noise monitoring and prevention</b>		
i	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the ministry as a part of six-monthly compliance report.	<p>Already Being complied with &amp; Will be complied too</p> <p>Noise Monitoring is being done on regular basis by WBPCB/ MoEF&amp;CC/ NABL accredited laboratories. Eco Care, West Bengal which is NABL/ MoEF accredited laboratory has done the analysis at two locations viz. SMS Area &amp; Rolling Mill in the month of September, 2021.</p>



		The Ambient & Work Zone Noise quality monitoring reports are attached in Analysis Report as <b>Annexure - VII</b> .
ii	The ambient noise levels should confirm to the standards prescribed under E (P) A rules, 1986 viz. 75dB (A) during day time to 70 dB (A) during night time.	Ambient Noise in day and night time are within norms.
<b>V. Energy conservation measures</b>		
i	The project proponent shall provide waste heat recovery system on the DRI kilns.	Not applicable as there is no DRI Kiln in the project.
ii	The dolochar generated shall be used for power generation.	Not applicable because there is no DRI kiln.
iii	Provide solar power generation on roof tops of buildings, for solar light system for all common areas, street lights, parking around project area and maintain the same regularly.	Agreed. And is in the process of implementation.
iv	Provide LED lights in their offices and residential areas.	Implemented
<b>VI. Waste management</b>		
i	Used refractories shall be recycled as far as possible.	Project does not generate refractories as it does not have DRI Kilns.
ii	100% utilization of fly ash shall be ensured. All the fly ash shall be provided to cement and brick manufacturers for further utilization and memorandum and understanding in this regard shall be submitted to the Ministry's Regional Office.	No fly ash generated, Hence not applicable.
iii	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Trans boundary Movement) Rules, 2016.	Already Being complied with & Will be complied too  Used oil is sold to WBPCB authorized recycler (Here, i.e., BA.MA oil industries) and cotton waste/ Jute containing oil is sent CHWTSDf (Here, i.e. West Bengal Waste Management Limited) and it has been also mentioned in the submitted Hazardous Waste annual return (Form IV for the 2020-2021 financial year) to the West Bengal Pollution Control Board through online portal vide Return No. 939057 for the period 202-2021.
iv	Kitchen waste shall be composted or converted to biogas for further use.	Kitchen waste is composted and is used as manure in gardening.
<b>VII. Green Belt</b>		





i	Green belt shall be developed in an area equal to 33% of the plant area with a native tree species in accordance with CPCB guidelines. The greenbelt shall inter alia cover the entire periphery of the plant.	33% of total area i.e. 10.27 ha has been earmarked for green belt development.  Before this financial year (2021-22), there are 2756 no. of surviving trees inside the plant premises and in this financial year 1459 no. of trees are planted till date. In the upcoming year we are planning to plant 901 no. of trees to complete the green belt mentioned in EC (i.e. 5,116 no. of trees).  To speed up the green belt development work additional dedicated manpower has been deployed.
ii	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including carbon sequestration including plantation.	The project will not generate GHG as it does not use any fossil fuel.
<b>VIII. Public hearing and Human health issues</b>		
i	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management plan shall be implemented.	A disaster management cell headed by site incident controller Sanjay Agarwal, Executive-commercial has been formed to face emergency and disaster.
ii	The project proponent shall carry out stress analysis for the workmen who work in high temperature work zone and provide personal protection Equipment (PPE) as per the norms of factory Act.	The workmen have been provided PPE like asbestos apron, gloves, safety shoes and color glasses. Work zone are being rotated periodically and the shifts for workers working in High temperature zone is changed frequently.
iii	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 structure to be removed after the completion of the project.	Existing plant infrastructure and facilities has been provided to Construction Labor.
iv	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	Already Being Complied with/Will be complied too  Occupational health surveillance of the workers is being periodically accessed and records are being maintained as per the Factories Act 1948.



		OHS record is enclosed as <b>Annexure-VIII.</b>
<b>IX. Corporate Environment Responsibility</b>		
i	The project proponent shall comply with the provisions contained in this Ministry's Om vide F. No. 22-65/2017-IA.III dated 1st May 2018, as applicable, regarding Corporate Environment Responsibility.	The cost incurred in CER is being carried out for social development and welfare measures in the surrounding villages.  The CER detail is attached as <b>Annexure-IX.</b>
ii	The company shall have a well laid down environmental policy duty approved by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental/forest/wildlife norms/ conditions. The company shall have defined system of reporting infringements/ deviation/violation of the environmental/ forest/wildlife norms/conditions and/ or shareholder's/stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.	Already being complied with  The company has a well laid down environment policy duty approved by Board of Directors. Standard Operating Procedure for individual equipment's have been printed and distributed to supervisors for ready reference. Important parameters have been displayed in working area. Board Resolution regarding environmental policy was already submitted with six-monthly report.
iii	A Separate Environmental cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will report directly to the head of the organization.	Already being complied with  A separate Environment management cell is working under Workmen Controller (WMC) who is also organizational head. All abnormalities and deviations are directly reported to him, who take up the matter with Board of Directors for immediate action and budgetary provision.
iv	Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and should not be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.	Already Being Complied with & Will be complied too  Adequate funds have been deployed in CAPEX and OPEX and an itemized action plan has been drawn for implementing the stipulated conditions.  The detail about the Recurring Cost on Environmental Safeguard for current operational plant is enclosed as <b>Annexure-X.</b>



v	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.	Agreed  Already Being Complied with & Will be complied too  The company has ISO 9001, IOS 14001 & ISO 14001 certificate after successful completion of the project.
vi	All the recommendations made in the charter on Corporate Responsibility for Environment protection (CREP) for the Sponge Iron plants shall be implemented.	There is no sponge iron unit in the EC awarded configuration. So, implementation of CREP for the sponge iron plant is not required.
<b>X. Miscellaneous</b>		
i	The project proponent shall make public the environmental clearance granted for their project along with the environmental conditions and safeguards at their cost by prominently advertising it in at least two local newspapers of the District or state, of which one shall be in the vernacular language within seven days and in addition this shall also be displayed in the project proponent's website permanently.	Already being complied with  Accorded Environmental Clearance was published in two local Newspapers and also in company's website.
ii	The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, panchayats and Municipal bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.	Already being complied with  EC copy was submitted to the Heads of local bodies, panchayats and Municipal bodies in addition to the relevant offices of the Government.
iii	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including results of monitored data on their website and update the same on half-yearly basis.	Agreed to update on half-yearly basis.
iv	The project proponent shall monitor the criteria pollutants levels level namely; PM10, SO2, NOx (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.	Already Being Complied with & Will be complied too  The management of MSPL (M/s. Maithan Steel & Power Limited) is monitoring criteria pollutants level namely; PM10, PM2.5, SO2, NOx (ambient levels as well as stack emissions) by third party monitoring agency. Emission levels of pollutants of different units is displayed on board as per CPCB format outside the main gate of the plant for disclosure to

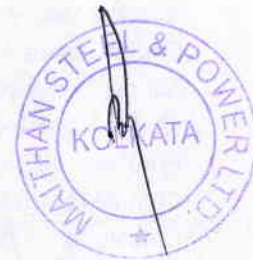


		the public and also uploaded on the website of the company.
v	The project proponent shall submit six-monthly reports on the status of the compliance of the stipulated environmental conditions on the website of the ministry of Environment, Forest and climate change at environment clearance portal.	Already Being Complied with & Will be complied too  Six-monthly report on the status of compliance of the stipulated environmental conditions are being submitted to MoEF&CC and will be displayed in website.
vi	The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (protection) Rules, 1986 as amended subsequently and put on the website of the company.	Already Being Complied with & Will be complied too  For the financial year 2020-21, Environmental Statement in prescribed format was submitted to the West Bengal Pollution Control Board vide letter no. MSPL-II/ENV_Statement?2021-2022 dated 25.09.21
vii	The project proponent 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, commencing the land development work and start of production operation by the project.	Noted  Private Company, no finance is needed from outside.
viii	The project authorities must strictly adhere to the stipulations made by the State pollution Control Board and the State Government.	Noted
ix	The project proponent shall abide by all the commitments and recommendations made in the EIA/EMP report, commitment made during public hearing and also that during their presentation to the Expert Appraisal committee.	Noted
x	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forests and Climate Change (MoEF&CC).	Noted
xi	Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (protection) Act, 1986.	Noted





xii	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted
xiii	The ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Agreed.
xiv	The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The Project authorities should extend full cooperation to the officer (s) of the Regional office by furnishing the requisite data/information/monitoring reports.	Noted
xv	The above conditions shall be enforced, inter-alia under the provisions of the water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous and other wastes (Management and Transboundary Movement) Rules, 2016 and the public Liability Insurance act, 1991 along with their amendments and rules and any other orders passed by the Hon'ble Supreme Court of India/High courts and any other Court of law relating to the subject matter.	Noted
xvi	Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted



Stack\_1 \_Induction Furnace\_Maithan-U-2\_ Salanpur - Offline:01/Apr/2021 -  
30/Sep/2021

Timestamp	SPM(mg/Nm3)
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2021-09-28T00:00:00	31.86
2021-09-27T00:00:00	32.63
2021-09-26T00:00:00	33.21
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2021-09-22T00:00:00	33.68
2021-09-21T00:00:00	30.59
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Timestamp	SPM(mg/Nm3)
2021-08-17T00:00:00	30.16
2021-08-16T00:00:00	29.78
2021-08-15T00:00:00	27.78
2021-08-14T00:00:00	27.16
2021-08-13T00:00:00	27.77
2021-08-12T00:00:00	29.86
2021-08-11T00:00:00	31.18
2021-08-10T00:00:00	30.19
2021-08-09T00:00:00	32.58
2021-08-08T00:00:00	28.15
2021-08-07T00:00:00	24.92
2021-08-06T00:00:00	30.43
2021-08-05T00:00:00	27.37
2021-08-04T00:00:00	25.31
2021-08-03T00:00:00	28.2
2021-08-02T00:00:00	27.08
2021-08-01T00:00:00	26.88
2021-07-31T00:00:00	21.87
2021-07-30T00:00:00	17.33
2021-07-29T00:00:00	17.54
2021-07-28T00:00:00	20.15
2021-07-27T00:00:00	20.89
2021-07-26T00:00:00	33.25
2021-07-25T00:00:00	39.43
2021-07-24T00:00:00	35.22
2021-07-23T00:00:00	32.13
2021-07-22T00:00:00	31.83
2021-07-21T00:00:00	30.14
2021-07-20T00:00:00	29.64
2021-07-19T00:00:00	30.77
2021-07-18T00:00:00	30.25
2021-07-17T00:00:00	31.09
2021-07-16T00:00:00	30.59
2021-07-15T00:00:00	30.49
2021-07-14T00:00:00	31.66
2021-07-13T00:00:00	31.37
2021-07-12T00:00:00	32.34
2021-07-11T00:00:00	31.94
2021-07-10T00:00:00	31.35
2021-07-09T00:00:00	30.08
2021-07-08T00:00:00	30.15
2021-07-07T00:00:00	30.24
2021-07-06T00:00:00	29.96
2021-07-05T00:00:00	29.93
2021-07-04T00:00:00	30.14
2021-07-03T00:00:00	30.14
2021-07-02T00:00:00	30.44



Timestamp	SPM(mg/Nm3)
2021-07-01T00:00:00	
2021-06-30T00:00:00	
2021-06-29T00:00:00	31.22
2021-06-28T00:00:00	31.61
2021-06-27T00:00:00	31.42
2021-06-26T00:00:00	31.18
2021-06-25T00:00:00	30.99
2021-06-24T00:00:00	30.67
2021-06-23T00:00:00	31.21
2021-06-22T00:00:00	29.86
2021-06-21T00:00:00	29.65
2021-06-20T00:00:00	29.62
2021-06-19T00:00:00	29.44
2021-06-18T00:00:00	30.27
2021-06-17T00:00:00	29.2
2021-06-16T00:00:00	29.34
2021-06-15T00:00:00	29.2
2021-06-14T00:00:00	33.95
2021-06-13T00:00:00	36.04
2021-06-12T00:00:00	32.68
2021-06-11T00:00:00	29.01
2021-06-10T00:00:00	29.11
2021-06-09T00:00:00	28.96
2021-06-08T00:00:00	29.42
2021-06-07T00:00:00	29.27
2021-06-06T00:00:00	29.33
2021-06-05T00:00:00	29.49
2021-06-04T00:00:00	28.88
2021-06-03T00:00:00	28.32
2021-06-02T00:00:00	29.46
2021-06-01T00:00:00	29.32
2021-05-31T00:00:00	29.94
2021-05-30T00:00:00	29.25
2021-05-29T00:00:00	30.22
2021-05-28T00:00:00	0.21
2021-05-27T00:00:00	1.89
2021-05-26T00:00:00	0.12
2021-05-25T00:00:00	0.6
2021-05-24T00:00:00	8.86
2021-05-23T00:00:00	21.83
2021-05-22T00:00:00	42.45
2021-05-21T00:00:00	38.14
2021-05-20T00:00:00	43.16
2021-05-19T00:00:00	41.38
2021-05-18T00:00:00	7.13
2021-05-17T00:00:00	0.29
2021-05-16T00:00:00	0.01





Timestamp	SPM(mg/Nm3)
2021-05-15T00:00:00	0.66
2021-05-14T00:00:00	5.78
2021-05-13T00:00:00	39.31
2021-05-12T00:00:00	44.58
2021-05-11T00:00:00	
2021-05-10T00:00:00	22.03
2021-05-09T00:00:00	19.73
2021-05-08T00:00:00	21
2021-05-07T00:00:00	24.28
2021-05-06T00:00:00	26.94
2021-05-05T00:00:00	23.24
2021-05-04T00:00:00	18.08
2021-05-03T00:00:00	26.87
2021-05-02T00:00:00	21.58
2021-05-01T00:00:00	19.52
2021-04-30T00:00:00	37.68
2021-04-29T00:00:00	42.78
2021-04-28T00:00:00	41.34
2021-04-27T00:00:00	39.77
2021-04-26T00:00:00	36.64
2021-04-25T00:00:00	43.56
2021-04-24T00:00:00	43.18
2021-04-23T00:00:00	40.6
2021-04-22T00:00:00	33.3
2021-04-21T00:00:00	31.96
2021-04-20T00:00:00	31.33
2021-04-19T00:00:00	31.03
2021-04-18T00:00:00	30.16
2021-04-17T00:00:00	34.53
2021-04-16T00:00:00	29.5
2021-04-15T00:00:00	29.3
2021-04-14T00:00:00	29.65
2021-04-13T00:00:00	27.37
2021-04-12T00:00:00	25.83
2021-04-11T00:00:00	25.67
2021-04-10T00:00:00	
2021-04-09T00:00:00	
2021-04-08T00:00:00	43.53
2021-04-07T00:00:00	38.92
2021-04-06T00:00:00	28.16
2021-04-05T00:00:00	30.24
2021-04-04T00:00:00	27.87
2021-04-03T00:00:00	26.64
2021-04-02T00:00:00	28.31
2021-04-01T00:00:00	27.93





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Paschim Bardhaman (W.B.)

ULR NO – TC510921000000772F

Format No. : EC/TRT/42/FM/01

## TEST REPORT

Report Release Date	: 13.09.2021	Sample Ref. No.(ARF)	: EC/ARF/29/210914
Test Report No	: EC/TR/42/09049	Source of Sample	: SMS
Type of Sample	: Dust & Gaseous Emission	Sampling Date	: 08.09.2021
Sample Collected by	: Mr. Sumit Sarkar & Team	Period of Analysis	: 10.09.2021
Sample Details	: Stack Emission	Sampling Location	: Bag Filter Stack
Name & Address	: <b>Maithan Steel &amp; Power Limited</b> (Unit – II) Mouza – Nakrajoria P.O & P.S – Salanpur Dist – Paschim Bardhaman West Bengal Pin No – 713357	Sample Condition	: Sealed
		Sample Stamped as	: TH – 32
		Sample Drawn By	: ECO CARE
		Sampling Plan & Procedure	: EC/SOP/03/01
		Remarks	: ----
		Deviation if any	: None

### GENERAL INFORMATION

1	Particular of the Plant	: SMS
2	Emission Due to	: Process Activity
3	Stack Connected to	: Bag Filter at Induction Furnace No. 1,2 3&4
4	Material of Construction	: M.S
5	Stack Height from G.L.	: 30.0 m
6	Height of Sampling Port from G.L.	: 20.0 m
7	Height of Sampling Port from L.D.Z.	: ----
8	Dimension of Stack at Sampling Port	: 1.20 m
9	Shape of the Stack	: Circular Ø
10	Working Load	: 15.0 MT/Batch

### FUEL CHARACTERISTIC REPORT

1	Source of Energy	: Electricity
2	Energy Consumption	: ----
3	Calorific Value (K-Cal/Kg)	: ----

### RESULTS OF SAMPLING GASEOUS EMISSION ANALYSIS

		Method
1	Flue Gas Temperature	55 °C
2	Barometric Pressure	754 mm Hg
3	Velocity of Flue Gas	7.75 m/sec
4	Flue Gas Quantity	28475 NM <sup>3</sup> / hr
5	Concentration of Particulate Matter	39.11 mg/NM <sup>3</sup>
6	Concentration of Carbon Dioxide	2.6 %
7	Concentration of SO <sub>2</sub>	----
8	Concentration of NO <sub>x</sub>	----
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 3
		IS 11255 : Part 1
		IS 13270
		IS 11255 : Part 2
		IS 11255 : Part 7

1. Test values are reported based on the samples received.
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3. The Test report shall not be reproduced, without the written approval of laboratory

Authorised Signatory

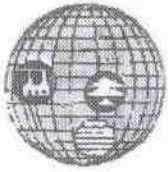
**Niranjan Lal Agarwalla**

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ULR NO - TC51092100000775F

Format No. : EC/TRT/42/FM/02

## TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. No.(ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09052	Source of Sample : Rolling Mill
Type of Sample : Suspended Dust & Gases	Sampling Date : 09.09.2021
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 10.09.21 to 11.09.21
Sample Details : Fugitive Air	Sample Condition : Sealed & Preserved
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit - II) Mouza - Nakrajoria P.O & P.S - Salanpur Dist - Paschim Barddhaman West Bengal, Pin No - 713357	Remarks : --- Sampling Plan & Procedure : EC/SOP/03/01 Sample Drawn By : ECO CARE Deviation if any : None

### METEOROLOGICAL INFORMATION

1	Average Temperature	31.8 °C	2	Barometric Pressure	754 mm Hg
3	Average Relative Humidity	67.0 %	4	Weather Condition	Clear Day

### 1. Sampling Location : Near Raw Material Yard

Sl. No.	Parameters	Test Method	Results
1	Concentration of Suspended Particulate Matter	IS : 5182 (Part - 4)	431.53 µg/M <sup>3</sup>

### 2. Sampling Location : Near SMS Area

Sl. No.	Parameters	Test Method	Results
1	Concentration of Suspended Particulate Matter	IS : 5182 (Part - 4)	398.80 µg/M <sup>3</sup>

1. Test values are reported based on the samples received.
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ULR NO - TC510921000000773F

Format No. : EC/TRT/42/FM/04

**TEST REPORT**

Report Release Date : 13.09.2021	Samp <sup>l</sup> . Ref. No.(ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09050	Source of Sample : Rolling Mill
Type of Sample : Suspended Dust & Gases	Sampling Date : 08.09.21 to 09.09.21
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 10.09.21 to 11.09.21
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit - II) Mouza - Nakrajoria P.O & P.S - Salanpur Dist - Paschim Bardhaman West Bengal, Pin No - 713357	Remarks : --- Sampling Plan & Procedure : EC/SOP/03/01 Sample Drawn By : ECO CARE Deviation if any : None

**METEOROLOGICAL INFORMATION**

1	Average Temperature	31.6 °C	2	Barometric Pressure	754 mm Hg
3	Average Relative Humidity	69.0 %	4	Weather Condition	Clear Day

**AMBIENT AIR QUALITY ANALYSIS REPORT**

TEST METHOD	IS : 5182 ( Part - 2 )	IS : 5182 ( Part - 6 )	IS : 5182 ( Part - 23 )	EPA CFR40 (pt 50), Appendix I
PARAMETERS	SO <sub>2</sub> (µg/M <sup>3</sup> )	NO <sub>x</sub> (µg/M <sup>3</sup> )	PM <sub>10</sub> (µg/M <sup>3</sup> )	PM <sub>2.5</sub> (µg/M <sup>3</sup> )
Method Detection Limit	5	8	20	10
<b>1. Sampling Location : Near Salanpur Village (Out Side of the Plant)</b>				
Shift - A (09:30 AM To 05:30 PM)	29.03	34.93	71.15	32.03
Shift - B (05:40 PM To 01:40 AM)	16.94	23.31	62.53	
Shift - C (01:50 AM To 09:50 AM)	20.97	30.15	68.35	
Average ( Shift - A To Shift - C )	22.31	29.46	67.34	
<b>2. Sampling Location : Near Nakrajoria Village (Out Side of the Plant)</b>				
Shift - A (10:00 AM To 06:00 PM)	25.00	31.51	69.38	27.57
Shift - B (06:10 PM To 02:10 AM)	12.90	22.63	57.90	
Shift - C (02:20 AM To 10:20 AM)	16.94	28.10	65.49	
Average ( Shift - A To Shift - C )	18.28	27.41	64.26	
<b>3. Sampling Location : Near Dendua Village (Out Side of the Plant)</b>				
Shift - A (10:20 AM To 06:20 PM)	20.97	27.41	66.07	24.42
Shift - B (06:30 PM To 02:30 AM)	08.87	19.21	52.72	
Shift - C (02:40 AM To 10:40 AM)	12.90	24.68	60.24	
Average ( Shift - A To Shift - C )	14.25	23.77	59.68	

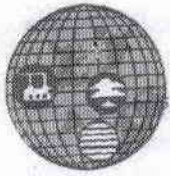
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Dist. Burdwan (West Bengal)

ULR NO – TC51092100000788P

Format No. : EC/TRT/42/FM/04

## TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. No.(ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09051/A	Source of Sample : Rolling Mill
Type of Sample : Suspended Dust & Gases	Sampling Date : 08.09.21 to 09.09.21
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 10.09.21 to 11.09.21
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit – II) Mouza – Nakrajoria, P.O & P.S – Salanpur Dist – Paschim Bardhaman West Bengal, Pin No – 713357	Remarks : ----
	Sampling Plan & Procedure : EC/SOP/03/01
	Sample Drawn By : ECO CARE
	Deviation if any : None

### METEOROLOGICAL INFORMATION

1	Average Temperature	31.6 °C	2	Barometric Pressure	754 mm Hg
3	Average Relative Humidity	69.0 %	4	Weather Condition	Clear Day

### CARBON MONOXIDE ANALYSIS REPORT

#### 1. Sampling Location : Near Salanpur Village (Out Side of the Plant)

PARAMETERS	TEST METHOD	UNIT	METHOD DETECTION LIMIT	RESULT
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m <sup>3</sup>	2	0.134

#### 2. Sampling Location : Near Nakrajoria Village (Out Side of the Plant)

PARAMETERS	TEST METHOD	UNIT	METHOD DETECTION LIMIT	RESULT
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m <sup>3</sup>	2	0.117

#### 3. Sampling Location : Near Dendua Village (Out Side of the Plant)

PARAMETERS	TEST METHOD	UNIT	METHOD DETECTION LIMIT	RESULT
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m <sup>3</sup>	2	0.126

#### 4. Sampling Location : Near Main Gate (Inside of the Plant)

PARAMETERS	TEST METHOD	UNIT	METHOD DETECTION LIMIT	RESULT
Carbon Monoxide ( CO )	NDIR SPEYCTROSCOP	mg/m <sup>3</sup>	2	0.225

1. Test values are reported based on the samples received.
2. Sample(s) will be destroyed after 7 days from date of issues of the Test Report subject to nature of Preservation. Sample will be preserved as per the standard method.
3. The Test report shall not be reproduced, without the written approval of laboratory.

*N. Agarwalla*

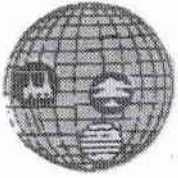
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ULR NO – TC510921000000774F

Format No. : EC/TRT/42/FM/04

### TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. No.(ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09051	Source of Sample : Rolling Mill
Type of Sample : Suspended Dust & Gases	Sampling Date : 08.09.21 to 09.09.21
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : 10.09.21 to 11.09.21
Sample Details : Ambient Air	Sample Condition : Sealed & Preserved
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit – II) Mouza – Nakraoria P.O & P.S – Salanpur Dist – Paschim Bardhaman West Bengal, Pin No – 713357	Remarks : ---- Sampling Plan & Procedure : EC/SOP/03/01 Sample Drawn By : ECO CARE Deviation if any : None

### METEOROLOGICAL INFORMATION

1	Average Temperature	31.6 °C	2	Barometric Pressure	754 mm Hg
3	Average Relative Humidity	69.0 %	4	Weather Condition	Clear Day

### AMBIENT AIR QUALITY ANALYSIS REPORT

TEST METHOD	IS : 5182 (Part – 2)	IS : 5182 (Part – 6)	IS : 5182 (Part – 23)	EPA CFR40 (pt 50), Appendix 1
PARAMETERS	SO <sub>2</sub> (µg/M <sup>3</sup> )	NO <sub>x</sub> (µg/M <sup>3</sup> )	PM <sub>10</sub> (µg/M <sup>3</sup> )	PM <sub>2.5</sub> (µg/M <sup>3</sup> )
Method Detection Limit	5	8	20	10

### Sampling Location : Near Main Gate (Inside of the Plant)

Shift	Time	SO <sub>2</sub> (µg/M <sup>3</sup> )	NO <sub>x</sub> (µg/M <sup>3</sup> )	PM <sub>10</sub> (µg/M <sup>3</sup> )	PM <sub>2.5</sub> (µg/M <sup>3</sup> )
Shift - A	(09:00 AM To 05:00 PM)	33.06	38.35	80.27	33.07
Shift - B	(05:10 PM To 01:10 AM)	20.97	25.36	67.40	
Shift - C	(01:20 AM To 09:20 AM)	29.03	32.88	74.56	
Average	(Shift - A To Shift - C)	27.69	32.20	74.08	

1. Test values are reported based on the samples received.
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3. The Test report shall not be reproduced, without the written approval of laboratory.

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ULR NO - TC510921000000776F

Format No. : EC/TRT/42/FM/06

## TEST REPORT

Report Release Date	: 13.09.2021	Sample Ref. No.(ARF)	: EC/ARF/29/210914
Test Report No	: EC/TR/42/09053	Source of Sample	: Rolling Mill
Type of Sample	: Water	Sampling Date	: 09.09.2021
Sample Collected by	: Mr. Sumit Sarkar	Period of Analysis	: 10.09.21 to 11.09.21
Sample Details	: Ground Water	Sampling Location	: Near Central Store
Name & Address	: <b>Maithan Steel &amp; Power Limited</b> (Unit - II) Mouza - Nakrajoria P.O & P.S - Salanpur Dist - Paschim Bardhaman West Bengal, Pin No - 713357	Sample Condition	: Sealed & Preserved
		Sample Stamped as	: ---
		Sample Drawn By	: ECO CARE
		Remarks	: ---
		Sampling Plan & Procedure	: EC/SOP/03/01
		Deviation if any	: None

Sl. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (IS:10500)	Results
1	pH at 25.7 °C		4500-H <sup>+</sup> B	6.5 - 8.5	7.42
2	TDS	mg/l	2540 C	500.0	357.20
3	Turbidity	NTU	2130 B	1.0	< 1.00
4	Total Alkalinity (as CaCO <sub>3</sub> )	mg/l	2320 B	200.0	122.38
5	Chloride (as Cl <sup>-</sup> )	mg/l	4500 - Cl <sup>-</sup> B	250.0	38.16
6	Calcium (as Ca <sup>2+</sup> )	mg/l	3500 - Ca B	75.0	33.85
7	Total Chromium	mg/l	IS 3025 (Part-52):2003	0.05	< 0.03
8	Total Hardness (as CaCO <sub>3</sub> )	mg/l	2340 C	200.0	115.36
9	Iron (as Fe)	mg/l	3500 - Fe B	0.3	0.11
10	Sulphate (as SO <sub>4</sub> <sup>2-</sup> )	mg/l	4500 - SO <sub>4</sub> <sup>2-</sup> E	200.0	28.17
11	Magnesium (as Mg)	mg/l	3500 - Mg B	30.0	7.51
12	Arsenic	mg/l	3500 As - P	0.01	< 0.01
13	Colour	Hazen	2320B	5.0	< 5.0
14	Fluoride (as F)	mg/l	3500 - Fe B/D	1.0	0.35
15	Nitrate (as NO <sub>3</sub> <sup>-</sup> )	mg/l	4500 - NO <sub>3</sub> <sup>-</sup> E	45.0	1.98
16	Chlorine Residual	mg/l	4500 - Cl <sup>-</sup> B	0.2	< 0.50

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3. The Test report shall not be reproduced, without the written approval of laboratory.

*N. Agarwalla*

Authorised Signatory

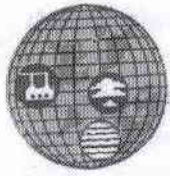
**Niranjan Lal Agarwalla**

B Tech MS (USA), A.M.I.E

Authorised Signatory







*Eco Care*

Specialised House on Environmental Monitoring, Analysis, Assessment & Management

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Manoj Talkies, (Basement Floor)  
Kumarpur, Asansol - 713304  
Dist. Burdwan (West Bengal)

ULR NO - TC510921000000776F

Format No. : EC/TRT/42/FM/06

### TEST REPORT (Part-B)

Report Release Date : 13.09.2021	Sample Ref. No (ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09053	Source of Sample : Rolling Mill
Type of Sample : Water	Sampling Date : 09.09.2021
Sample Collected by : Mr. Sumit Sarkar	Period of Analysis : 10.09.21 to 11.09.21
Sample Details : Ground Water	Sampling Location : Near Central Store
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit - II) Mouza - Nakrajoria P.O & P.S - Salanpur Dist - Paschim Barddhaman West Bengal, Pin No - 713357	Sample Condition : Sealed & Preserved
	Sample Stamped as : ----
	Sample Drawn By : ECO CARE
	Remarks : ----
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

Sl. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (IS:10500)	Results
17	Odour	--	2150B	Agreeable	Agreeable
18	Taste	--	2160 B	---	Agreeable
19	T. Coliform	MPN/100ml	9221 B	Not Detectable	Not Detected
20	E. Coli or Thermo tolerant Coliform Bacteria	MPN/100ml	9221 B	Absent	Absent

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*N. Agarwalla*

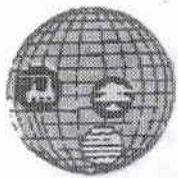
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Specialised House on Environmental Monitoring, Analysis, Assessment & Management  
ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

Manoj Taikies Basement, Kumarpur  
Asansol - 713304  
Paschim Bardhaman (W.B.)

ULR NO - TC51092100000790F

Format No. : EC/TR/42/FM/06

## TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. No (ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09062	Source of Sample : Rolling Mill
Type of Sample : Water	Sampling Date : 08.09.2021
Sample Collected by : Mr. Sumit Sarkar	Period of Analysis : 10.09.21 to 13.09.21
Sample Details : Effluent Water	Sampling Location : STP Inlet
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit - II) Mouza - Nakrajoria P.O & P.S - Salanpur Dist - Paschim Bardhaman West Bengal, Pin No - 713357	Sample Condition : Sealed & Preserved
	Sample Stamped as : "MS - 01"
	Sample Drawn By : ECO CARE
	Remarks : ---
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

Sl. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (EPR 1986 & IS 2296:1982)	Results
1	pH at 24.7 °C		4500-H <sup>+</sup> B	5.5 - 9.0	6.80
2	TSS	mg/l	2540 D	100.0	59.60
3	TDS	mg/l	2540 C	2100.0	585.10
4	BOD (3 days) at 27.0 °C	mg/l	IS 3025 (Part - 44): 1993	30.0	44
5	COD	mg/l	5220 B	250.0	161.28
6	Oil & Grease	mg/l	5520 B	10.0	7.91

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ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

ULR NO – TC510921000000791F

Format No. : EC/TRT/42/FM/06

### TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. No.(ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09063	Source of Sample : Rolling Mill
Type of Sample : Water	Sampling Date : 08.09.2021
Sample Collected by : Mr. Sumit Sarkar	Period of Analysis : 10.09.21 to 13.09.21
Sample Details : Effluent Water	Sampling Location : STP Outlet
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit – II) Mouza – Nakrajoria P.O & P.S – Salanpur Dist – Paschim Barddhaman West Bengal, Pin No – 713357	Sample Condition : Sealed & Preserved
	Sample Stamped as : "MS – 02"
	Sample Drawn By : ECO CARE
	Remarks : ---
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

Sl. No.	Parameters	Unit	Test Method (APHA 23 <sup>rd</sup> Edition)	Standards (EPR 1986 & IS 2296:1982)	Results
1	pH at 24.5 °C		4500-H <sup>+</sup> B	5.5 – 9.0	7.26
2	TSS	mg/l	2540 D	100.0	31.20
3	TDS	mg/l	2540 C	2100.0	469.70
4	BOD (3 days) at 27.0 °C	mg/l	IS 3025 (Part - 44): 1993	30.0	20
5	COD	mg/l	5220 B	250.0	70.56
6	Oil & Grease	mg/l	5520 B	10.0	4.57

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URL NO. – TC510921000000777F

Format No. : EC/TRT/42/FM/07

**TEST REPORT**

Report Release Date : 13.09.2021	Sample Ref. No (ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09054	Source of Sample : Rolling Mill
Type of Sample : Noise	Sampling Date : 09.09.2021
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : ---
Sample Details : Ambient Noise	Sample Condition : ---
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit – II) Mouza – Nakrajoria P.O & P.S – Salanpur Dist – Paschim Bardhaman West Bengal, Pin No – 713357	Remarks : ---
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

**METEOROLOGICAL INFORMATION**

1	Average Temperature ( °C )	31.3
2	Average Relative Humidity (%)	67.0
3	Barometric Pressure (mm of Hg)	754
4	Weather Condition	Clear Day

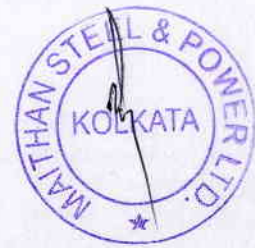
**WORK ZONE NOISE QUALITY REPORT**

Sampling Location	NOISE LEVEL		
	Minimum	Leq – Mean	Maximum
1. Near Main Gate	66.60 dB(A)	71.10 dB(A)	74.20 dB(A)
2. Near Salanpur Village	50.10 dB(A)	56.22 dB(A)	60.30 dB(A)

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ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

URL NO. – TC51092100000785F

Format No. : EC/TRT/42/FM/07

## TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. No.(ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09054/A	Source of Sample : SMS
Type of Sample : Noise	Sampling Date : 09.09.2021
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : ---
Sample Details : Source Noise	Sample Condition : ---
Name & Address : <b>Maithan Steel &amp; Power Limited</b> (Unit – II) Mouza – Nakrajoria P.O & P.S – Salanpur Dist – Paschim Bardhaman West Bengal, Pin No – 713357	Remarks : ---
	Sample Drawn By : ECO CARE
	Sampling Plan & Procedure : EC/SOP/03/01
	Deviation if any : None

## SOURCE NOISE QUALITY REPORT

Sampling Location: Near SMS Area				
SL No	Time	Minimum	Leq – Mean	Maximum
1	11:30Hrs to 12:30 Hrs	67.20 dB(A)	69.91 dB(A)	72.40 dB(A)
2	12:30 Hrs to 01:30 Hrs	62.10 dB(A)	66.13 dB(A)	69.70 dB(A)
3	01:30 Hrs to 02:30 Hrs	62.60 dB(A)	68.38 dB(A)	71.80 dB(A)
4	02:30 Hrs to 03:30 Hrs	63.40 dB(A)	67.83 dB(A)	70.30 dB(A)
5	03:30 Hrs to 04:30 Hrs	61.60 dB(A)	66.98 dB(A)	70.80 dB(A)
6	04:30 Hrs to 05:30 Hrs	62.20 dB(A)	67.50 dB(A)	70.50 dB(A)
7	05:30 Hrs to 06:30 Hrs	62.30 dB(A)	69.13 dB(A)	63.20 dB(A)
8	06:30 Hrs to 07:30 Hrs	59.40 dB(A)	65.64 dB(A)	68.40 dB(A)
9	07:30 Hrs to 08:30 Hrs	61.00 dB(A)	67.38 dB(A)	73.10 dB(A)
10	08:30 Hrs to 09:30 Hrs	62.40 dB(A)	67.40 dB(A)	70.60 dB(A)
11	09:30 Hrs to 10:30 Hrs	57.10 dB(A)	65.04 dB(A)	69.60 dB(A)
12	10:30 Hrs to 11:30 Hrs	59.40 dB(A)	68.07 dB(A)	74.80 dB(A)
13	11:30 Hrs to 12:30 Hrs	50.70 dB(A)	65.70 dB(A)	72.90 dB(A)
14	12:30 Hrs to 01:30 Hrs	63.80 dB(A)	67.90 dB(A)	70.90 dB(A)
15	01:30 Hrs to 02:30 Hrs	62.80 dB(A)	68.68 dB(A)	72.10 dB(A)
16	02:30 Hrs to 03:30 Hrs	60.60 dB(A)	65.05 dB(A)	68.70 dB(A)
17	03:30 Hrs to 04:30 Hrs	62.10 dB(A)	68.18 dB(A)	72.30 dB(A)
18	04:30 Hrs to 05:30 Hrs	63.30 dB(A)	69.14 dB(A)	73.30 dB(A)
19	05:30 Hrs to 06:30 Hrs	56.10 dB(A)	67.80 dB(A)	74.20 dB(A)
20	06:30 Hrs to 07:30 Hrs	63.15 dB(A)	69.18 dB(A)	73.50 dB(A)
21	07:30 Hrs to 08:30 Hrs	62.10 dB(A)	68.10 dB(A)	71.20 dB(A)
22	08:30 Hrs to 09:30 Hrs	57.30 dB(A)	68.40 dB(A)	73.40 dB(A)
23	09:30 Hrs to 10:30 Hrs	63.40 dB(A)	67.82 dB(A)	70.14 dB(A)
24	10:30 Hrs to 11:30 Hrs	66.50 dB(A)	69.53 dB(A)	72.10 dB(A)

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*Niranjan Lal Agarwalla*

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ISO 9001:2015 Certified, OHSAS 45001:2018 Certified

URL NO. - TC510921000000786F

Format No. : EC/TRT/42/FM/07

## TEST REPORT

Report Release Date : 13.09.2021	Sample Ref. NO (ARF) : EC/ARF/29/210914
Test Report No : EC/TR/42/09054/B	Source of Sample : SMS
Type of Sample : Noise	Sampling Date : 10.09.2021
Sample Collected by : Mr. Sumit Sarkar & Team	Period of Analysis : ----
Sample Details : Source Noise	Sample Condition : ----
Name & Address : <b>Maithan Steel &amp; Power Limited</b>	Remarks : ----
(Unit - II)	Sample Drawn By : ECO CARE
Mouza - Nakrajoria	Sampling Plan &
P.O & P.S - Salanpur	Procedure : EC/SOP/03/01
Dist - Paschim Bardhaman	Deviation if any : None
West Bengal, Pin No - 713357	

## SOURCE NOISE QUALITY REPORT

Sampling Location: Near Rolling Mill Area				
SL No	Time	Minimum	Leq - Mean	Maximum
1	01:30Hrs to 02:30 Hrs	68.50 dB(A)	73.73 dB(A)	78.80 dB(A)
2	02:30 Hrs to 03:30 Hrs	67.40 dB(A)	72.76 dB(A)	77.90 dB(A)
3	03:30 Hrs to 04:30 Hrs	61.40 dB(A)	71.80 dB(A)	78.70 dB(A)
4	04:30 Hrs to 05:30 Hrs	69.10 dB(A)	70.91 dB(A)	73.50 dB(A)
5	05:30 Hrs to 06:30 Hrs	58.60 dB(A)	73.35 dB(A)	80.80 dB(A)
6	06:30 Hrs to 07:30 Hrs	62.00 dB(A)	72.69 dB(A)	78.40 dB(A)
7	07:30 Hrs to 08:30 Hrs	65.70 dB(A)	71.32 dB(A)	74.90 dB(A)
8	08:30 Hrs to 09:30 Hrs	60.50 dB(A)	69.30 dB(A)	66.80 dB(A)
9	09:30 Hrs to 10:30 Hrs	57.10 dB(A)	73.46 dB(A)	79.10 dB(A)
10	10:30 Hrs to 11:30 Hrs	64.90 dB(A)	72.06 dB(A)	76.80 dB(A)
11	11:30 Hrs to 12:30 Hrs	60.30 dB(A)	70.85 dB(A)	76.80 dB(A)
12	12:30 Hrs to 01:30 Hrs	57.40 dB(A)	69.58 dB(A)	75.50 dB(A)
13	01:30 Hrs to 02:30 Hrs	66.40 dB(A)	63.66 dB(A)	77.40 dB(A)
14	02:30 Hrs to 03:30 Hrs	59.50 dB(A)	71.92 dB(A)	78.40 dB(A)
15	03:30 Hrs to 04:30 Hrs	66.70 dB(A)	70.16 dB(A)	72.70 dB(A)
16	04:30 Hrs to 05:30 Hrs	64.90 dB(A)	73.52 dB(A)	78.50 dB(A)
17	05:30 Hrs to 06:30 Hrs	56.90 dB(A)	71.10 dB(A)	76.20 dB(A)
18	06:30 Hrs to 07:30 Hrs	61.60 dB(A)	70.12 dB(A)	74.50 dB(A)
19	07:30 Hrs to 08:30 Hrs	67.20 dB(A)	69.91 dB(A)	72.40 dB(A)
20	08:30 Hrs to 09:30 Hrs	64.50 dB(A)	72.15 dB(A)	75.20 dB(A)
21	09:30 Hrs to 10:30 Hrs	63.50 dB(A)	70.84 dB(A)	75.10 dB(A)
22	10:30 Hrs to 11:30 Hrs	62.30 dB(A)	69.13 dB(A)	73.20 dB(A)
23	11:30 Hrs to 12:30 Hrs	64.80 dB(A)	71.72 dB(A)	75.60 dB(A)
24	12:30 Hrs to 01:30 Hrs	61.80 dB(A)	72.10 dB(A)	79.50 dB(A)

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*U Agarwala*

Authorised Signatory  
 Niranjan Lal Agarwala  
 Tech MS (USA), A.M.I.E  
 Authorised Signatory













# HEALTH

Proceedural under Rules 63 & 64 of The West Bengal Factories Rules, 1958

- 1. Serial No. in the Register of sickle worker
- 2. Name of worker **Mr. Subhadra Mukherjee**
- 3. Sex **Male**
- 4. Date of Birth **10.08.1945**

Department Name of Machine or Process	Temperature presence of diseases	Nature of job or occupation	Was respiratory condition or symptoms there of noticed in the past?	Date of onset of disease or injury	Reason for onset of disease or injury	Medical Opinion and treatment recommended	If returned work, for each												
							1	2	3	4									
Jr		Executive		8/10/54															

# REGISTER

as amended vide Notification No. 1183-LW/RE-091 dated 27th Nov, 1991

1. Name of worker & main target	2. Result Excluded	3. Extent of disease from last visit	4. Interval visit, for each				5. Date of disease for last visit	6. Date of disease from last visit	7. Remarks with date of the entry, Medical Officer / Factory Physician
			1	2	3	4			
Bp 118/70	Y								
Pulse - 78									
R R 21/min	EX								
Chest - Clear									
Wt - 5.5									
Ht - 5'7 1/2"									
Chest - 82 cm - 0.7									
Arterio - 10									





FORM NO. 17

HEALTH

(Prescribed under Rules 65 & 66 of The West Bengal Factories Act, 1948)

1. Serial No. in the Register of adult workers

2. Name of worker

3. Sex

4. Date of birth

5. Nature of occupation

6. Designation

7. Nature of duties performed

8. Date of last medical examination

9. Name of the medical officer

10. Name of the factory

11. Name of the State

12. Name of the District

13. Name of the Division

14. Name of the Sub-Division

15. Name of the Locality

REGISTER  
as amended vide Notification No. HR-UV-01-01 dated 27th Nov 1991

No. 28

1	2	3	4	5	6	7	8	9	10	11		12	13	14	15	16
										Number of days & nights worked	Number of days & nights worked					
10	By - 15/57	Male	08/08/1972	Assistant	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72	12/04/72
11	Dulge 158/10 Chhat - clean F.V.															
12	R.R. 04/10 H. 5.3'															
13	Wt 48 Blood group - B+															

Handwritten signature and date: 12/04/72



Notes - 1. Separate copy must be maintained for non-union workers.  
2. This form shall be filled up by the medical officer.  
3. This form shall be filled up by the medical officer.



FORM NO. 17

HEALTH

Prescribed under Rule 63 & 64 of the West Bengal Factories Rules, 1958

1. Serial No. in the Register of firm workers  
 2. Name of worker: **Mr. Sandip Das Gupta**  
 3. Sex: **Male**      4. Date of Birth: **15.12.1980**

1. Name of firm/establishment	2. Name of the person in charge of the establishment	3. Date of registration of the establishment	4. Date of issue of the health certificate	5. Name of the person who issued the health certificate	6. Name of the person who received the health certificate	7. Name of the person who issued the health certificate	8. Name of the person who received the health certificate	9. Name of the person who issued the health certificate	10. Name of the person who received the health certificate

REGISTER

as prescribed under Notification No. 183-A-W-B-05 dated 27th Nov. 1981

Name of the worker	Serial No. in the Register of firm workers	Examination with the health inspector				If referred with by work				Date of issue of health certificate	Name of the person who issued the health certificate	
		1. Name of firm/establishment	2. Name of the person in charge of the establishment	3. Date of registration of the establishment	4. Date of issue of the health certificate	5. Name of the person who issued the health certificate	6. Name of the person who received the health certificate	7. Name of the person who issued the health certificate	8. Name of the person who received the health certificate			

Exp. 12/20  
 Pulse 80/m  
 Chest clear  
 RR 24  
 Hgt. 5'5"  
 Wt. 70kg  
 Blood group A+

12/20/81



Notes: 1. Original copy of health certificate to be retained for 30 days with the worker. 2. If the worker is referred to a hospital for treatment, the health certificate shall be valid for 30 days from the date of issue.



1. Serial No. in the Register of adult workers *147*
2. Name of worker *M.D. Anand Kaur*
3. Sex *Male*      4. Date of birth *15.05.1976*

### HEALTH

(Prescribed under Rules 63 & 64 of The West Bengal Factories Rules, 1948)

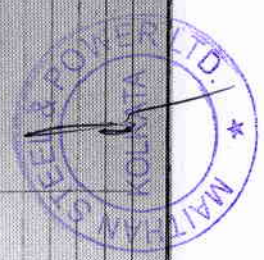
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Occupational hazard	Name of occupational exposure	Duration of exposure	Amount of exposure	Frequency of exposure	Time of exposure	Place of exposure	Time of exposure	Time of exposure	Time of exposure	Time of exposure	Time of exposure	Time of exposure	Time of exposure	Time of exposure	Time of exposure
			<i>Asst. In-charge</i>			<i>shop</i>									

Note: 1. Register shall only be maintained for individual workers.  
 2. Entries shall be made for each day of work.

### REGISTER

as provided rule No. 64 of the Factories Rules, 1948

10	11	12	13	14	15	16
Time of work	Time of work	Time of work	Time of work	Time of work	Time of work	Time of work
<i>8.15 to 11.45</i>	<i>8.15 to 11.45</i>	<i>8.15 to 11.45</i>	<i>8.15 to 11.45</i>	<i>8.15 to 11.45</i>	<i>8.15 to 11.45</i>	<i>8.15 to 11.45</i>
<i>12.15 to 2.45</i>	<i>12.15 to 2.45</i>	<i>12.15 to 2.45</i>	<i>12.15 to 2.45</i>	<i>12.15 to 2.45</i>	<i>12.15 to 2.45</i>	<i>12.15 to 2.45</i>
<i>3.15 to 5.45</i>	<i>3.15 to 5.45</i>	<i>3.15 to 5.45</i>	<i>3.15 to 5.45</i>	<i>3.15 to 5.45</i>	<i>3.15 to 5.45</i>	<i>3.15 to 5.45</i>
<i>6.15 to 8.45</i>	<i>6.15 to 8.45</i>	<i>6.15 to 8.45</i>	<i>6.15 to 8.45</i>	<i>6.15 to 8.45</i>	<i>6.15 to 8.45</i>	<i>6.15 to 8.45</i>







# BHANIRAMKA & ASSOCIATES

## Chartered Accountants

Annexure - IX  
Royal Commercial Complex  
(SBI Building) G. T. Road  
Neamatpur, Pin - 713359

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**21317052AAAAAA3208**

### **TO WHOM IT MAY CONCERN**

We have checked the Books of Accounts and relevant records of **M/s. Maithan Steel & Power Ltd.**, having its Registered Office at 9, AJC Bose Road, 6th Floor, Kolkata – 700 017 and Re-rolling Mill & M.S. Billet plant at Mouza: Nakrajoria, P.O.: Salanpur-713 357, Dist.: Paschim Bardhaman (W.B) based on our verification & examination and in accordance with the same as well as according to the information available & explanation given to us, we hereby certify that CER Budget and Actual Expenses incurred during **F.Y. 2020-21 & F.Y. 2021-22 (upto Sept'2021)** by the company is hereunder:

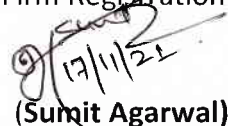
(Rs. in Lakh)

ACTIVITY	CER Budget	Expenses Incurred	
		2020-21	2021-22
Strengthening of villages approach roads, making drainages etc.	25.00	40.23	--
Engaging under privilege women in self-help group to make them sustainable.	10.00	--	--
Infrastructure developments & assisting school in other renovation job	20.00	--	12.00
Health Camp and Health Care facilities to villages.	15.00	25.16	5.82
Sinking of new bore wells, pipelines in villages	35.00	40.34	--
Providing supports & awareness of local farmers	5.00	--	8.80
Avenue plantation & plantation in community	10.00	--	--
Miscellaneous Expenses	10.00	2.00	4.39
<b>Total:--</b>	<b>130.00</b>	<b>107.73</b>	<b>31.01</b>

Place: Neamatpur

Date: 17<sup>th</sup> of November, 2021

For Bhaniramka & Associates  
Chartered Accountants  
Firm Registration No.:0331780E

  
(Sumit Agarwal)

Partner

Membership No.: 317052



## Annexure-X

<b>Recurring Cost Incurred on Environmental Safeguard</b>			
<b>Year</b>	<b>Particulars</b>	<b>Narration</b>	<b>Amount</b>
<b>April,21- September,21</b>	<b>Green Belt Development</b>	Maintenance, labour cost etc.	2,06,000
	<b>House Keeping</b>	Labour charges, Drainage Cleaning and other materials	9,30,000
	<b>Analysis &amp; Monitoring of Environmental Parameters</b>	Stack, Fugitive, Ambient, Water etc. Monitoring & Analysis, In-house Analysis	75,000
	<b>O &amp; M on A.P.C Devices</b>	Operation & Maintenance cost, Electricity consumption etc. on A.P.C Device installed.	34,80,700
<b>TOTAL</b>			<b>46,91,700</b>

