CIN: U27310WB2005PLC103224

Kejriwal CASTINGS LIMITED

MANUFACTURERS & EXPORTERS OF DUCTILE IRON, CAST IRON PIPES, FITTINGS, VALVES ETC.

Kejriwal

Regd. Office: Millenium City IT Park, DN 62, Salt Lake, Sector - V, 14th Floor, Kolkata - 700091, INDIA
Phone: 033 4804 0845, 4804 0849 E-mail: info@kejriwalcastings.com Website: www.kejriwalcastings.com

Works 1: NH-6, Chamrail, Howrah - 711 114 (W.B.) INDIA Phone: (0321) 2237244, 2247527
Works 2: Bamunara Industrial Estate, Bamunara, Durgapur 713 212, (W.B.) INDIA

IS:1537
IS:1538
IS:5312
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IS:9523
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To,
The Director,
Ministry of Environment, Forests and Climate Change,
Govt. Of India, Eastern Regional Office,
A/3,Chandrasekharpur,
Bhubaneswar, Orissa, Pin- 751023

Date: 12/11/2024

Subject: Submission of Six Monthly Compliance Report and Monitoring Reports for the period of**1st April 2024 to 30th September 2024** of specific conditions, general conditions, additional condition and additional conditions as per O.M. of MoEF & CC vide F. No. 22-23/2018-la.III (Pt.) dated 31.10.2019 and F. No.22-23/2018-Ia.III dated 31.12.2019 stipulated in the Environment Clearance Letter of DI Pipe manufacturing unit of capacity 97,200 MT/annum, current production capacity 48,600 MT per annum by M/s Kejriwal Castings Limited at Khatian no. 5770, J.L.no.58, Vill- Gopalpur, Bamunara Industrial Area. Mouza- Bamunara, PS- Kanksa, Durgapur, PIN-713212, Dist. -Paschim Bardhhaman, West Bengal.

Ref: Environment Clearance Letter Ref No. 388/EN/T-II-1/066/2018 dated 18th February, 2020.

Dear Sir,
This has reference to the Environment Clearance Letter Ref No. 388/EN/T-II-I/066/2018 dated18 February, 2020, as per which we have been asked to submit the compliance report with the specific conditions, general conditions, additional condition and additional Conditions as per O.M. of MoEF & CC vide F. No. 22-23/2018-Ia. III (Pt) dated 31.10.2019 and F. No. 22-23/2018-Ia.III dated 3I.12.2019 stipulated in the Environment Clearance Letter.
In view of the above, we are approaching you by submitting the Half-Yearly Compliance Report for the period of 1 **April, 2024 to 30th September 2024** for your kind perusal.
We assure you that we will comply with the conditions as specified in the Environment Clearance granted.

Thanking you
With Regards

KEJRIWAL CASTINGS LIMITED * BURGAPUR

M/s KejriwalCastingsLimited
Millennium City IT Park, DN62,
Saltlake, Sec-V, 14th Floor,Tower-2,Calcutta-700091,
West Bengal, India

Copy forwarded to: -

1. The Chairman, State Level Environment Impact Assessment Authority (SEIAA), Department of Environment, Govt. of West Bengal, PranisampadBhawan, LB-2,5" Floor, Sector-Ill, Saltlake, Kolkata, Pin- 700106, West Bengal.
2. The Chairman, West Bengal Pollution Control Board, PariveshBhawan,10ABlock- LA, Sector-III, Salt Lake, Kolkata, West Bengal-700091.
3. The Environment Engineer, West Bengal Pollution Control Board, Regional office, Shahid Khudiram Sarani, City Center, Durgapur-713216, West Bengal.

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3. The Environment Engineer, West Bengal Pollution Control Board, Regional office, Shahid Khudiram Sarani, City Center, Durgapur-713216, West Bengal.

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To,
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Parivesh Bhawan, 10 A Block-LA,
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Regional office, Shahid Khudiram Sarani,
City Center, Durgapur,
West Bengal -713216

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3. The Chairman, West Bengal Pollution Control Board (WBPCB), Parivesh Bhawan, 10 A Block- LA, Sector-III, Salt Lake, Kolkata, West Bengal-700091.

SIX MONTHLY COMPLIANCE REPORT

(For the Period of 1st April 2024 to 30th September 2024)

M/s KEJRIWAL CASTINGS LIMITED

DI Pipe manufacturing unit of capacity 97,200 MT/annum (Current production capacity 48,600 MT/annum)

Environment Clearance Letter Ref No. 388/EN/T-II-I/066/2018 dated 18th February, 2020

Location At

Khatian no. 5770, J.L.no.58, Vill-Gopalpur, Bamunara Industrial Area, Mouza- Barnunara, PS- Kanksa, Durgupur, PIN-713212, Dist.-Paschim Bardhaman, West Bengal

Submitted By

M/s Kejriwal Castings Limited

Millennium City IT Park, DN 62, Salt Lake,

Sec V, 14th floor, Tower-2,

Calcutta- 700091, West Bengal, India.

S. No	Conditions	Status of Compliance
A.	**Specific Conditions: Given in Annexure-1 viz. Standards EC conditions for Induction/Electric Arc Furnace & Rolling Mills**	
I.	**Statutory compliance**	
i.	The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.	Not applicable, as no forest land will be used in the project.
ii.	The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.	Not applicable as there is no wildlife Sanctuary located within the 10 km radius of the project site.
iii.	The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site- Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (In case of the presence of schedule-I species in the study area).	Not applicable as there is no scheduled-I species found within the study area.
iv.	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 concerned State Pollution Control Board / Committee.	The project proponent has obtained the Consent-to-Establish from West Bengal Pollution Control Board vide Memo No.-**145/2N/40/2018 (E) dated 10.06.2020 valid till dated 30.03.2027** is obtained from WBPCB before commencement of construction. copy of CTE ***is enclosed as Annexure-II*** and also obtained the Consent-to-Operate Memo No. 124-7/**WBPD-Count (2604)/05 dated 01.02.2022 valid till dated 31.12.2026** is obtained from WBPCB before commencement of operation. ***CTO copy is enclosed as Annexure-III.***

v.	The project proponent shall obtain the necessary permission from the Central Ground Water Authority, in case of drawl of ground water or in case of drawl of surface water required for the project.	Application of Ground Water extraction from State Water Investigation Department (SWID) ***are attached as Annexure- IV.***
vi.	The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.	Authorization under the Hazardous and other Waste Management Rules, 2016 is not required. The hazardous waste generation from the factory shall be Used/Spent Oil. Used oils removed from machineries, gear boxes, compressors etc. and sludge are collected in drums and temporarily stored in specifically earmarked areas. They shall be disposed through the approved agencies.
II. Air quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R.277(E) dated 31st March 2012 (applicable to IF / EAF) as amended from time to time as amended from time to time) and connected to SPCB and CPCB online servers and calibrate this system from time to time according to equipment supplier specification through labs recognized under Environment (Protection) Act, 1986 or NABL accredited laboratories.	The project proponent was completed the installation process of 24x7 continuous emissions monitoring system. Real time monitoring is being done at the project site. Photographs of the same ***is enclosed in Annexure-V.*** Purchase Order of the same ***is enclosed in Annexure-VI.***
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.	Noted & complied. The copy of Air Quality NABL accredited laboratory report *is enclosed in* ***Annexure-VII.***
iii.	The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common / criterion parameters relevant to the	Noted & complied. The copy of Air Quality NABL accredited laboratory report *is enclosed in* ***Annexure-VII.***

	main pollutants released (e.g. PM10 and PM2.5 in reference to PM emission. and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area (at least at four locations one within and three outside the plant area at an angle of 120^0 each), covering upwind and downwind directions. (case to case basis small plants: Manual; Large plants: Continuous)	
iv.	The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual monitoring of air quality / fugitive emissions to Regional Office of Ministry of Environment, Forests and Climate Change (MoEF&CC)/SEIAA, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Noted & complied. The copy of Air Quality NABL accredited laboratory report *is enclosed in* ***Annexure-VII.***
v.	Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.	Fume extraction system with reverse air/pulse jet bag filters, ID fan, interlocking facilities will be installed and stack of adequate height to submerged arc furnace are provided with continuous maintenance and monitoring to measure and control emissions below 100mg/Nm3 to meet emissions level of West Bengal Pollution Control Board (WBPCB).
vi.	The project proponent shall provide leakage detection and mechanized bag cleaning facilities for better maintenance of bags.	Complied. Site Photographs ***are enclosed as Annexure-V.***
vii.	Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.	One Industrial Vacuum cleaner has been purchased. For cleaning and picking up of metal dust a magnetic sweeper is also purchased. Site Photographs ***are enclosed as Annexure-V.***

viii.	Recycle and reuse iron ores fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting /agglomeration.	One Industrial Vacuum cleaner has been purchased. Metal chunks are collected from production floor using magnetic sweeper and reused in the furnace. Site Photographs ***are enclosed in Annexure-V.***
ix.	The project proponent shall use leak proof trucks / dumpers carrying coal and other raw materials and cover them with tarpaulin.	Complied.
x.	The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.	Complied. Site Photographs ***are enclosed in Annexure-V.***
xi.	The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.	Primary and Secondary fume extraction system at all melting will be provided. Site Photographs ***are enclosed in Annexure-V.***
xii.	Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.	Complied.
III. Water quality monitoring and preservation		
i.	The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R.277(E) dated 31st March 2012 (applicable to IF / EAF) as amended from time to time; as amended from time to time) and connected to SPCB and CPCB online servers and calibrate this 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)	Effluent Treatment Plant of adequate capacity for treatment of domestic waste water as well as 24 x7 continuous effluent monitoring system is installed and operating successfully. Purchase Order ***is enclosed in Annexure-VI.*** Site Photographs ***are enclosed in Annexure-V.*** The copy of Water NABL accredited laboratory report is ***enclosed in Annexure-VII.***

ii.	The project proponent shall monitor regularly 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.	Complied. The copy of Water NABL accredited laboratory report ***is enclosed in Annexure-VII.***
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/SEIAA, Zonal office of CPCB and Regional Office of SPCB along with six-monthly monitoring report.	Submission of monthly summary report of continuous effluent monitoring and result of manual effluent testing and manual monitoring of ground water quality will be complied after the grant of the permission obtained from the competent authority.
iv.	Adhere to 'Zero Liquid Discharge'.	Company will follow "the zero-waste water discharge concept" and the entire wastewater will be recycled to the plant for various uses. As no waste water will be discharged outside the plant premises, there will be no impact on the water quality of any surface water body of the area.
v.	Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.	Domestic wastewater will be treated in Septic Tank-Soak pit system.
vi.	The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R.277(E)31st March 2012 (applicable to IF / EAF) as amended from time to time.	Effluent Treatment Plant of adequate capacity for treatment of domestic waste water as well as 24 x7 continuous effluent monitoring system is installed and operating successfully. Purchase Order ***is enclosed in Annexure-VI.*** Site Photographs ***are enclosed in Annexure-V.*** The copy of Water NABL accredited laboratory report is ***enclosed in Annexure-VII.***
vii.	Garland drains and collection pits shall be provided for each stock pile to arrest the run-off in the event of heavy	Proper network of drains will be constructed to arrest the run-off water to the collection pits.

	rains and to check the water pollution due to surface run off.	
viii.	The project proponent shall practice rainwater harvesting to maximum possible extent.	Rain Water Harvesting Tank with capacity of 1,48,000 liters is constructed inside the plant premises. Other Rain Water Harvesting System is Under progress. Site Photographs ***are enclosed in Annexure-V.***
ix.	The project proponent shall make efforts to minimize water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.	Noted & will be complied.
IV. Noise monitoring and prevention		
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 MoEF&CC / SEIAA as a part of six-monthly compliance report.	Noted & complied. The copy of Noise Quality NABL accredited laboratory report ***is enclosed in Annexure-VII.***
ii.	The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.	Noted and will be Complied. The copy of Noise Quality NABL accredited laboratory report ***is enclosed in Annexure-VII.***
V. Energy Conservation measures		
i.	The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.	Noted and will be complied.
ii.	Practice hot charging of slabs and billets / blooms as far as possible.	Noted and will be complied.
iii.	Ensure installation of regenerative type burners on all reheating furnaces.	Noted and will be complied.
iv.	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.	The project Proponent Install the Solar Power Generation Panels completed on the roof's tops of buildings and sheds. Currently, 1,330 KW of electricity is being generated from the same. P.O ***is enclosed as Annexure-VIII.***

v.	Provide the project proponent for LED lights in their offices and residential areas.	Complied. Site Photographs ***are enclosed in Annexure-V.***
VI. Waste management		
i.	Used refractories shall be recycled as far as possible.	Noted and will be complied.
ii.	Oily scum and metallic sludge recovered from roiling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces.	Noted and will be complied.
iii.	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 of Understanding in this regard shall be submitted to the MoEF&CC regional office/ State Environment Impact Assessment Authority/State Pollution Control Board.	Noted and will be complied.
iv.	The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other Waste (Management & Transboundary Movement) Rules, 2016.	Noted and will be complied.
v.	Kitchen waste shall be composted or converted to biogas for further use. (to be decided on case to case basis depending on type and size of plant).	Inadequate volume of Kitchen waste is generated are composted and used as fertilizer. The waste is composted in a dry pit and use as organic fertilizer during plantation.
VII. Green Belt		
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.	Around 798 saplings were purchased and planted during the last winter season. Also 17 packets of seasonal vegetation seeds were planted during the last winter. Site photographs ***are enclosed in Annexure-V.*** Saplings purchases Invoice ***are enclosed in Annexure-IX.***
ii.	The project proponent shall prepare GHG emissions inventory for the plant and shall submit the programme for reduction of the same including	Noted and will be complied.

	carbon sequestration including plantation.	
VIII. Public hearing and Human health issues		
i.	Emergency preparedness plan based on the Hazard Identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Noted and will be complied.
ii.	The project proponent shall carry out heat 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.	Complied. Workers will work in high temperature zone are provided with proper PPE as per the norms of Factory Act. Site Photographs ***are enclosed as Annexure-V.***
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, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	The labourers during the construction phase were provided with all the basic amenities like accommodation, canteen and health & safety. Site photographs ***are enclosed as Annexure- V.***
iv.	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	All the labourers engaged during construction works were properly screened for health and adequately treated before issue of work permits. Pest-control and sanitization are properly done in weekly basis and The Occupational health Surveillance of the workers will be done on a regular basis and records are maintained as per the Factories Act.
IX. Corporate Environment Responsibility (CER)		
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.	Agreed. The year wise funds earmarked details for Environmental Management Plan is provided in EMP Budget. A Copy of EMP ***is enclosed as Annexure-X.***
ii.	The company shall have a well laid down environmental policy duly approve by the Board of Directors. The	The company is having well laid down environmental policy duly signed by the Board of Directors. Copy of the same ***are enclosed as***

	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 shareholders/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.	***Annexure-XI.***
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 directly to the head of the organization.	Hierarchy level flow chart of the Environmental Cell for both at the project and company head quarter level mentioned ***are enclosed as Annexure-XII.***
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 not to be diverted for any other purpose. Year wise progress of implementation of action plan shall be reported to the Ministry of Environment, Forests & Climate Change / State Environment Impact Assessment Authority / State Pollution Control Board along with the Six-Monthly Compliance Report.	Action Plan copy duly approved by the competent authority of the company for implementing EMP and environmental conditions ***are enclosed as Annexure-X.*** The year wise funds earmarked details for the environmental responsibility along with responsibility matrix ***are enclosed as Annexure-XIII.***
v.	Self-environmental audit shall be conducted annually. Every three years third party environmental audit shall	Noted and will be Complied.

	be carried out.	
vi.	All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.	Noted and will be Complied.
X. Miscellaneous		
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 at least in 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.	The project proponent has given the advertisements to the local newspaper as well as state newspaper floated to inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal. Copy of the Newspaper cutting ***is enclosed in Annexure- XIV.*** Link of the website addresses displaying the EC Letter. website: www.kejriwalcastings.com
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.	Submission letter of EC letter to Head of locals bodies, Panchayats Bodies in additional to the relevant offices of the Government ***are enclosed as Annexure-XV.***
iii.	The project proponent shall upload the status of compliance of the stipulated environment clearance conditions, including result of monitored data on their website and update the same on half-yearly basis.	Status of compliance of the stipulated environment clearance conditions, including result of monitored data will be displayed of the current website: www.kejriwalcastings.com
iv.	The project proponent shall monitor the criteria pollutants 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	Noted and will be complied.

	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 MoEF&CC /SEIAA at environment clearance portal.	Complied & will be complied.
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.	Noted & will be complied.
vii.	The project proponent shall inform the Regional Office as well as the Ministry/SEIAA. 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. i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. ii. 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 State Expert Appraisal Committee.	The date of financial closure and final approval of the project will be informed to the concerned authorities after the closing of the construction phase. a. The date of commencing of the land development work/project implementation to WBPCB in terms to obtaining Consent-to-Establishment and the SEIAA as submission of compliance report dated 1st April, 2024 to 31st , May 2024. The project authorities will strictly adhere to the stipulations made by the State Pollution Control Board and the State Government. b. The project proponent will abide by all the commitments and recommendations made in the EIA/EMP report, commitments made during Public Hearing and also that during their presentation to the Expert Appraisal Committee. Undertaking ***are enclosed as Annexure-XVI.***
viii.	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).	Agreed and complied. No further expansion or modifications in the plant will be carried out without prior approval of the State Environment Impact Assessment Authority.

ix.	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. EC	Noted and Agreed.
x.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Noted and Agreed.
xi.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.	Noted and Agreed.
xii.	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 and Agreed.
xiii.	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 and Agreed.
xiv.	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 and Agreed.

B.	**Additional Conditions:**	
i	The gaseous emissions from various process units should conform to the load/mass-based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.	The gaseous emissions from various process units are conform to the load/mass-based standards prescribed by the Ministry of Environment & Forests and the SPCB from time to time. The monitoring system has been installed to continuously monitor & control the emission level as per prescribed standards. The same is also linked to CPCB servers.
ii	Induction furnaces should be provided with fume extraction and dedicated pollution control systems consisting of Swiveling Hood, Spark Arrestor, Bap Filter, ID Fan etc. and stack of minimum height 30m from GI. as proposed. Secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. Suction should be adequate to control fugitive emission. Stack emission (PM) from induction furnaces should not exceed 50 mg/Nm^3. Stack emissions should be monitored at regular intervals and records should be maintained.	Installations of Swiveling Hood, Spark Arrestor, Bag Filter, ID Fan etc. are complied as per the proposal. Proper measures are adapted to lay down secondary fume extraction system with adequate side suction is provided to prevent fugitive emission during charging. Stack emission monitoring records will be maintained on regular intervals. Photographs of SWIVELING Hood, Spark Arrestor, Bag Filter, ID Fan etc. with locations ***mention in Annexure-V for reference.***
iii.	Dust collection from Bag filter should be done through pneumatic control system. Collected dust is to be recycled back to process or sold for landfilling subject to the condition that it does not fall under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.	Pneumatic Control System will be followed and collected the dust from bag filters is collected and recharged in the furnace.
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16 November, 2009 shall be complied with.	Noted and will be Complied.
v.	Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.	The copy of Air Quality NABL accredited laboratory report *is enclosed in* ***Annexure-VII.***
vi.	Adequate measures to be adopted for control of fugitive emission. Regular water sprinkling should be done to control the fugitive emission.	Sprinkling of Water is done twice in a day to control all venerable sources of fugitive emissions. Site Photographs ***are enclosed as Annexure-V.***
vii.	Groundwater should be abstracted as per the permission obtained from the	The abstraction of Ground Water will be as per the permission obtained from the competent authority

	competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005. Appropriate flow measuring device to be installed for monitoring volume of abstracted ground water and logbook to be maintained regularly.	as per the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005. Applications of Ground Water extraction from State Water Investigation Department (SWID) ***are enclosed as Annexure-IV.***
viii.	Sponge iron and Pig iron should be used as major raw material in Induction Furnace (at least 80% of the total input). Use of galvanized iron scrap as raw material is not permitted.	As we are engaged in the manufacture of Ductile Iron Pipes, pig iron is majorly used as raw material.
ix.	Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.	Complied. Site Photographs ***are enclosed as Annexure-V.***
x.	Rain Water Harvesting as proposed should be done in order to reduce abstraction of ground water. Recharging of ground water is not permitted.	Rain Water Harvesting Tank with capacity of 1,48,000 liters is constructed inside the plant premises. Other Rain Water Harvesting System is Under progress. Site Photographs ***are enclosed in Annexure-V.***
xi.	Cooling Water should be recycled.	Complied.
xii.	Solid wastes are generated in the form of scrap and slag. Scrap should be recycled in the proposed plant as proposed. Slag may be used for road construction and land filling; however, indiscriminate dumping is not permitted under any circumstances.	The generated solid waste is utilized for low land filling purpose and road making inside the factory premises. No toxic metal content in the waste material and its composition. Site Photographs ***are enclosed as Annexure-V.***
xiii.	Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc, on all sources of noise generation. The ambient noise levels should confirm to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) Leq (daytime) and 70 dB(A) Leq (nighttime) and its subsequent amendments.	Noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation are implemented to conform the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 Dba (day time) and 70 Dba (night time). The copy of Noise Quality NABL accredited laboratory report ***is enclosed in Annexure-VII.***
xiv.	Green belt shall be developed within and around the plant as per proposal submitted. At least 33% of the land	Around 798 saplings were purchased and planted. Also 17 packets of seasonal vegetation seeds were planted during the last winter. Site Photographs

	area should be covered by plantation. At least 2085 nos, of trees to be planted. Indicative list of species is given at Annexure-1. There should not be any removal / destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.	***are enclosed as Annexure-V.***
xv.	All internal roads should be concreted/pitched. Proper lighting and proper pathway inside the factory promises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) or Proper housekeeping shall be used as far as practicable. control maintained within the premises. Solar lighting should be used as far as practicable.	The construction of internal is ongoing. The lighting and proper pathway inside the factory premises are on construction phase. Separate pathways for entry and exit or vehicles are considered. PUC Certificate of Vehicles ***are enclosed as Annexure-XVII.***
xvi.	Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.	A first aid chamber along with a paramedical team and an Ambulance are hired for the Health and Safety of the workers. Workers are provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers is done on a regular basis and records are maintained. Site Photographs ***are enclosed as Annexure-V.***
xvii.	Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.	Adequate measures are adopted to ensure industrial safety like Fire extinguisher Ball, etc. Fire detection & protection systems to control fire and explosion hazards are under construction phase. Site photographs ***are enclosed as Annexure-V.***
xviii.	The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.	Complied.
xix.	Corporate Environment Responsibility (CER) Program to be formulated based on the results of socio-economic survey on relevant parameters and need assessment of local people as per MoEF OM No. F. No 22-65/2017-1A.III dated: Ist May, 2018 and OM. No. F. No. 22-23/2018-	Complied.

	1A.III (Pt) dated 31.10.2019.	
xx.	Implementation of such programme shall be ensured accordingly in a time bound manner.	Noted and will be complied.
C.	**General Conditions:**	
1.	The environmental clearance accorded shall be valid for a period of 7 years for the proposed expansion project.	Environmental Clearance is obtained Letter **Ref No. 388/EN/T-II-I/066/2018** dated 18th February, 2020. Environmental Clearance ***are enclosed as Annexure-I***
2.	During construction phase, air pollution and solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.	Noted and complied.
3.	Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.	The project proponent has obtained the Consent-to-Establish from West Bengal Pollution Control Board vide Memo No.-**145/2N/40/2018 (E) dated 10.06.2020 valid till dated 30.03.2027** is obtained from WBPCB before commencement of construction. copy of CTE ***is enclosed as Annexure-II*** and also obtained the Consent-to-Operate Memo No. 124-7**/WBPD-Count (2604)/05 dated 01.02.2022 valid till dated 31.12.2026** is obtained from WBPCB before commencement of operation. ***CTO copy is enclosed as Annexure-III.***
4.	The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.	The project proponent complying with all the environmental measures and safeguards recommended. The socio-economic activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc. will be done after the construction phase.
5.	All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.	Noted.
6.	Provision should be made for the supply of kerosene or cooking gas to	The labourers during the construction phase were provided with all the basic amenities like

	the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.	accommodation, canteen and health & safety. All the labourers engaged during construction works were properly screened for health and adequately treated before issue of work permits. Pest-control and sanitization are properly done in weekly basis and occupational health surveillance of the workers is done on half yearly basis and the records are maintained as per the Factories Act. Site Photographs ***are enclosed as Annexure-V.***
7.	The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.	Effluent Treatment Plant (ETP) is installed and the recycled effluent is reused inside the plant premises. The 24 X 7 online emission monitoring has been installed for regular monitoring of gaseous emission from stacks so that the same can be kept under control. Rain Water Harvest System with the capacity of 1,48,000 liters is installed. Solar Power System is installed which generates 1330 KW of electricity. E-vehicles for the movement of materials procured inside the premises of the plant. Total Budget of the project for implementation of the environmental safeguards ***are enclosed as Annexure-XIII.***
8.	No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.	Agreed and complied. No further expansion or modifications in the plant will be carried out without prior approval of the State Environment Impact Assessment Authority.
9.	The West Bengal Pollution Control Board as well as the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents/ data by the project proponents during their inspection. A six-monthly compliance report and the monitored data along with	Noted and complied.

	statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Environmental Impact Assessment Authority, West Bengal.	
10.	The State Environmental Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.	Noted and agreed.
11.	The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the West Bengal Pollution Control Board and may also be seen at Website of the SEIAA, West Bengal (http://environmentwb.gov.in). This should be advertised within seven days from the date of issuance 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.	The project proponent has given the advertisements to the local newspaper as well as state newspaper floated to inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal. Copy of the Newspaper cutting ***is enclosed in Annexure- XIV.*** Link of the website addresses displaying the EC Letter. website: www.kejriwalcastings.com Submission letter of EC letter to Head of locals bodies, Panchayats Bodies in additional to the relevant offices of the Government ***are enclosed as Annexure-XV.***
12.	The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.	The date of financial closure and final approval of the project will be informed to the concerned authorities after the closing of the construction phase. The date of commencing of the land development work/project implementation to WBPCB in terms to obtaining Consent-to- Establishment and the SEIAA as submission of compliance report dated 1st April, 2024 to 31st, May 2024.
13.	The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the	Noted.

	Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, Solid Waste Management Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.	
D.	**Additional Conditions as per O.M. of MoEF & CC vide F. No: 22-23/2018-IA.III (Pt) dated 31.10.2019 and F.No. 22-23/2018-IA.III dated 30.12.2019.**	
i.	The industry shall meet stack emission standard of 45 mg/Nm' instead of 50 mg/Nm^3 as mentioned in additional conditions B (ii)	Complied. NABL accredited laboratory report ***are enclosed as Annexure-VII.***
ii.	Water sprinklers at strategic locations to be installed for controlling fugitive emission from different sources.	Sprinkling of water at unloading and raw material handling areas, storage yards at roads inside factory premises to prevent the dust emanation due to vehicular movements are done twice in a day is in regular practice to control all venerable sources of fugitive emissions. Site Photographs ***are enclosed as Annexure-V.***
iii.	The industry shall take up additional plantation of 500 trees in area adjacent to the project area in consultation with concerned D.F.O. This will be in addition to 2085 trees as given in Annexure-1.	Plantation done around the boundary wall of the factory location to prevent dust emissions. Site Photographs ***are enclosed as Annexure-V.***
iv.	STP of adequate capacity for domestic waste water to be installed as proposed.	Effluent Treatment Plant of adequate capacity for treatment of domestic waste water as well as 24 x7 continuous effluent monitoring system is installed and operating successfully. Purchase Order ***is enclosed in Annexure-VI.*** Site Photographs ***are enclosed in Annexure-V.*** The copy of Water NABL accredited laboratory report is ***enclosed in Annexure-VII.***
v.	Slag to be used for land filling and road construction.	The generated slag or solid waste is utilized for low land filling purpose and road making inside the factory premises. No toxic metal content in the waste material and its composition. Site Photographs ***are enclosed as Annexure-V.***
vi.	Monitoring of compliance of EC conditions shall be submitted with third party audit every year.	Noted and will be Complied.
vii.	The minimum amount of CER shall be 1.5 x Rs.79.8096 lakhs = Rs. 119.72 lakhs.	Agreed. The year wise funds earmarked details for the environmental responsibility along with responsibility matrix ***are enclosed as Annexure-XIII.***

ANNEXURE-1

Copy of EC

STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY
Pranisampad Bhaban, 5th floor, LB-2, Sector-III,
Salt Lake, Kolkata-700 106.
Telefax No. 033 2335 5246
Website : www.environmentwb.gov.in

No. 388 / EN / T-II-1 /066/ 2018 Date : 18 /02 / 2020

To
M/s Kejriwal Castings Limited,
Chatterjee International Centre,
33A, Chowringhee Road,
11th floor, Suite # 1, 6 & 11,
Kolkata – 700 071

SUB. : Environmental Clearance for the proposed setting up of DI Pipe manufactureing unit of capacity 97,200 MT/annum by ***M/s Kejriwal Castings Limited*** *at Khatian no. 5770, J.L. no. 58, Vill-Gopalpur, Bamunara Industrial Area, Mouza-Bamunara, PS-Kanksa, Durgapur, PIN-713212, Dist.-Paschim Bardhaman, West Bengal.*

Sir,

This has a reference to your application for Environmental Clearance (EC) hardcopy of which was submitted to SEIAA on 01.08.2018 and subsequent communications for the proposed setting up of DI Pipe manufacturing unit of capacity 97,200 MT/annum by **M/s Kejriwal Castings Limited** at Khatian no. 5770, J.L. no. 58, Vill-Gopalpur, Bamunara Industrial Area, Mouza-Bamunara, PS-Kanksa, Durgapur, PIN-713212, Dist.-Paschim Bardhaman, West Bengal.

The proposal has been examined and processed in accordance with the EIA Notification, 2006. This is a proposal for setting up of DI Pipe manufacturing unit of capacity 97,200 MT/annum.

Salient features of the project are summarized below:

Proposed Project	Setting up DI pipe manufacturing unit of capacity 97,200 MT per annum
Project Location	J.L.No. 58, Khatian No. 5770, Bamunara Industrial Area, Mouza – Bamunara, P.S – Kanksa, Durgapur – 713212, Dist- Paschim Bardhaman, West Bengal Latitude : 23°29'54"N; Longitude : 87°22'34"E
Proposed Modification /Addition	Setting up DI pipe manufacturing unit of capacity 97,200 MT per annum
Land Area	The company has procured 10.41 Acre (42127.77 m^2) of land alongwith 32,250 sqft. AC sheet roofing factory shed. The entire land has been mutated in the name of erstwhile Bhagwanji Ispat Private Limited and later the said company has been merged with KCL vide Honorable High Court Order. As per Parcha dated 21/06/2016 entire land i.e. 10.41 Acre has been mutated in the name of Kejriwal Castings Limited and has been converted into Industrial land.
Project Cost	Rs. **10641.28 Lacs**

Member Secretary, State Level Environmental Impact Assessment Authority

<table>
<tr><td>Minimum amount of CER as per OM dated 01.05.2018 and OM dated 31.10.2019</td><td>[0.75% of Rs. 10641.28 lakhs] X 1.50 = Rs.119.72 lakhs</td></tr>
<tr><td>Raw Materials & Quantity</td><td>
<table>
<tr><td>Pig Iron</td><td>MT/Month</td><td>6100</td></tr>
<tr><td>M.S. Scrap</td><td>MT/Month</td><td>2600</td></tr>
<tr><td>Ferro silicon, calcium carbide magnesium ingot, inoculants</td><td>MT/Month</td><td>180</td></tr>
<tr><td>Sand for core</td><td>MT/Month</td><td>60</td></tr>
<tr><td>Resin, hardener, catalyst, paint</td><td>MT/Month</td><td>4</td></tr>
<tr><td>Zinc wire/Aluminium wire</td><td>MT/Month</td><td>34</td></tr>
<tr><td>Sand for lining</td><td>MT/Month</td><td>1000</td></tr>
<tr><td>Portland cement</td><td>MT/Month</td><td>800</td></tr>
<tr><td>Bitumen/Epoxy paint</td><td>MT/Month</td><td>36</td></tr>
</table>
</td></tr>
<tr><td>Water requirement and source</td><td>Proposed: 222 KLD
<table>
<tr><th>Particulars</th><th>Requirement (KLD)</th></tr>
<tr><td>Cooling Water (Make up)</td><td>192</td></tr>
<tr><td>Other Industrial activity</td><td>10</td></tr>
<tr><td>Domestic purposes & Others</td><td>20</td></tr>
<tr><td>Total</td><td>222</td></tr>
</table>
Source : Deep Water Tubewell / Rain Water Harvesting</td></tr>
<tr><td>Power Requirement & source</td><td>Proposed: 20 MVA
Source : Durgapur Projects Limited
Proposed D.G. Set : 400KVA</td></tr>
<tr><td>Fuel Requirement</td><td>Diesel will be used for D.G. sets @ 50 L/hr. CBM or furnace oil will be used for the following section.
<table>
<tr><th>Section</th><th>CBM/month</th><th></th><th>Furnace oil/month</th></tr>
<tr><td>Annealing furnace</td><td>4.00 Lac m^3</td><td rowspan="2">OR</td><td>4.00 Lac Litre</td></tr>
<tr><td>Ladle and hopper heating etc.</td><td>50,000 m^3</td><td>50,000 Litre</td></tr>
</table>
</td></tr>
<tr><td>Manpower requirement</td><td>Proposed: 405</td></tr>
<tr><td>Water Pollution Control System</td><td>Cement slurry (Approx. 20 Tonnes /month) is taken to the Effluent Treatment Plant from which the water is recycled and used for gardening and the solid is used to manufacture brick/cement tiles. Sanitary waste water (approx. 15 KLD) will be treated in septic tank followed by soak pit.</td></tr>
<tr><td>Air Pollution Control System</td><td>
<table>
<tr><th>Source</th><th>Pollution Control System</th></tr>
<tr><td>Induction Furnace</td><td>Proposed induction furnace will be equipped with Spark arrestor, Bag Filter, ID Fan and stack of height 30m from GL.</td></tr>
</table>
</td></tr>
</table>

Member Secretary, State Level Environmental Impact Assessment Authority

	Annealing Furnace	Air Pollution from Annealing Furnace has been taken care of by installing Flue air duct to 30 mt. height steel chimney via scrubber and ID fan (if the heating will be done by burning of Furnace Oil). If CBM is used for heating of Annealing Furnace then there will not be any control equipment, only Fan, Chimney and Platform Ladder will be installed.
	Magnesium Converter, Zinc Coating units	Air Pollution from Magnesium Converter, Zinc Coating units has been taken care of by installing Bag filter and ID Fan.
	Bitumin/ Epoxy Painting unit	Air Pollution from Bitumin/ Epoxy Painting unit has been taken care of by installing Flue air duct to 30 mt. height steel chimney via scrubber and ID fan.
Solid Waste generation	Induction Furnace Slag: 400 TPM will be disposed for land filling and road construction. Slag from Magnesium converter: 200 TPM will be used for Road Filling and Land Reclamation. Core Sand from Casting Area and Annealing Furnace: 100 TPM will be used for Land Filling and reclamation and will be recycled. Zinc Dust: 50 TPM will be sold to certified Paint manufacturer. Dust from Air Pollution Control System: 200 TPM will be used in land filling, making of fly ash, bricks. About 20 TPM scrap will be re-melted in the process.	
Area For Greenbelt	Proposed Greenbelt: 14768 sqm.	
Rain water harvesting features	Minimum harvested water: 1804 m^3 / year. Four rectangular rain water storage tanks will be constructed. Dimension of tank 10.0 m x 10.0 m x 5.0 m = 500 m^3. 6.01 KLD harvested rainwater will be utilized for plant operation.	
Exclusive Tree plantation Area (at least 33% of land area + additional 7% of land area adjacent to the project area)	4.164 Acre (40%)	
No. of trees to be planted.	2585	

State Level Environment Impact Assessment Authority (SEIAA), examined the proposal and also perused recommendations of the State Level Expert Appraisal Committee (SEAC). After due consideration of the project proposal, and the recommendations of the State Level Expert Appraisal Committee (SEAC), the State Level Environment Impact Assessment Authority accords Environmental Clearance to the project as per provisions of the EIA notification no. S.O. 1533 (E) dt. 14th September, 2006 of Ministry of Environment & Forests, GOI subject to strict compliance of terms and conditions as mentioned below :-

A. SPECIFIC CONDITIONS: Given in Annexure 1

B. ADDITIONAL CONDITIONS:

i. The gaseous emissions from various process units should conform to the load / mass based standards prescribed by the Ministry of Environment & Forests and the State Pollution Control Board from time to time. At no time the emission level should go beyond the prescribed standards.

ii. Induction furnaces should be provided with fume extraction and dedicated pollution control systems consisting of Swiveling Hood, Spark Arrestor, Bag Filter, ID Fan etc. and stack of minimum height 30m

from G.L. as proposed. Secondary fume extraction system with adequate side suction should be provided to prevent fugitive emission during charging. Suction should be adequate to control fugitive emission. Stack emission (PM) from induction furnaces should not exceed 50 mg/Nm^3. Stack emissions should be monitored at regular intervals and records should be maintained.

iii. Dust collection from Bag filter should be done through pneumatic control system. Collected dust is to be recycled back to process or sold for landfilling subject to the condition that it does not fall under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

iv. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.

v. Regular monitoring of the air quality shall be carried out in and around the plant and records shall be maintained.

vi. Adequate measures to be adopted for control of fugitive emission. Regular water sprinkling should be done to control the fugitive emission.

vii. Groundwater should be abstracted as per the permission obtained from the competent authority as per The West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005. Appropriate flow measuring device to be installed for monitoring volume of abstracted ground water and logbook to be maintained regularly.

viii. **Sponge iron and Pig iron should be used as major raw material in Induction Furnace (at least 80% of the total input).** Use of galvanized iron scrap as raw material is not permitted.

ix. Covered storage yard for raw materials to be provided. Loading and unloading operations should not be carried out in open areas.

x. Rain Water Harvesting as proposed should be done in order to reduce abstraction of ground water. Recharging of ground water is not permitted.

xi. Cooling water should be recycled.

xii. Solid wastes are generated in the form of scrap and slag. Scrap should be recycled in the proposed plant as proposed. Slag may be used for road construction and land filling; however, indiscriminate dumping is not permitted under any circumstances.

xiii. Ambient noise level should not exceed the permissible limit. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dB(A) Leq (daytime) and 70 dB(A) Leq (nighttime) and its subsequent amendments.

xiv. Green belt shall be developed within and around the plant as per proposal submitted. **At least 33% of the land area should be covered by plantation.** At least **2085** nos. of trees to be planted. Indicative list of species is given at Annexure-1.There should not be any removal/destruction of vegetative cover both at the establishment as well as the operational stage, without the sanction of appropriate authority.

xv. All internal roads should be concreted / pitched. Proper lighting and proper pathway inside the factory premises should be constructed to ensure safe vehicular movement. Provision of separate pathway for entry and exit of vehicles should be considered. Vehicles should conform to pollution under control (PUC) norms. Proper house keeping shall be maintained within the premises. Solar lighting should be used as far as practicable.

xvi. Health and safety of workers should be ensured. Workers should be provided with adequate personnel protective equipment and sanitation facilities. Occupational Health Surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

xvii. Adequate measures to be adopted to ensure industrial safety. Proper fire detection & protection systems to be provided to control fire and explosion hazards.

xviii. The implementation and monitoring of Environmental Management Plan should be carried out, as proposed.

xix. Corporate Environment Responsibility (CER) Program to be formulated based on the results of socio economic survey on relevant parameters and need assessment of local people as per MoEF OM No. F.No.22-65/2017-IA.III dated: 1st May, 2018 and O.M. No. F. No. 22-23/2018-IA.III (Pt) dated 31.10.2019.

xx. Implementation of such programme shall be ensured accordingly in a time bound manner.

C. GENERAL CONDITIONS:

1. The environmental clearance accorded shall be valid for a period of 7 years for the proposed expansion project.
2. During construction phase, air pollution and solid waste management aspects need to be properly addressed ensuring compliance of the Construction and Demolition Waste Management Rules, 2016.
3. Prior Consent-to-Establish (NOC) for the proposed expansion project must be obtained from WBPCB before commencement of construction. All other statutory clearances should be obtained by project proponent from the competent authorities.
4. The project proponent shall comply with all the environmental protection measures and safeguards recommended. Further, the unit must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.
5. All the conditions, liabilities and legal provisions contained in the EC shall be equally applicable to the successor management of the project in the event of the project proponent transferring the ownership, maintenance of management of the project to any other entity.
6. Provision should be made for the supply of kerosene or cooking gas to the labourers during construction phase. All the labourers to be engaged for construction works should be screened for health and adequately treated before issue of work permits. Environmental sanitation should be ensured for the workers.
7. The project proponent should make financial provision in the total budget of the project for implementation of the environmental safeguards. The project authorities will provide requisite funds both recurring and non-recurring to implement the conditions stipulated by the SEIAA, West Bengal along with the implementation schedule for all the conditions stipulated herein. The funds so provided should not be diverted for any other purpose.
8. No further expansion or modifications in the plant should be carried out without prior approval of the State Environmental Impact Assessment Authority, West Bengal. In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by the SEIAA, West Bengal.
9. The West Bengal Pollution Control Board as well as the Regional Office of MoEF&CC, Bhubaneswar who would be monitoring the implementation of environmental safeguards, should be given full cooperation, facilities and documents / data by the project proponents during their inspection. A six monthly compliance report and the monitored data along with statistical interpretation shall be submitted to the WBPCB regularly. A complete set of all the documents should also be forwarded to the State Environmental Impact Assessment Authority, West Bengal.
10. The State Environmental Impact Assessment Authority, West Bengal reserves the right to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental (Protection) Act. 1986, to ensure effective implementation of the suggested safeguard measures in a time-bound and satisfactory manner.
11. The Project Proponent should inform the public that the project has been accorded environmental clearance by the SEIAA, West Bengal and copies of the clearance letter are available with the West Bengal Pollution Control Board and may also be seen at Website of the SEIAA, West Bengal (http://environmentwb.gov.in). This should be advertised within seven days from the date of issuance 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.

Member Secretary, State Level Environmental Impact Assessment Authority

12. The Project Authorities should inform the State Pollution Control Board as well as the SEIAA, West Bengal, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work/project implementation.

13. The above stipulations would be enforced along with those under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016, Solid Waste Management Rules, 2016, the Public Liability Insurance Act, 1991, the Environment Impact Assessment Notification 2006 and their amendments.

D. Additional Conditions as per O.M. of MoEF&CC vide F. No. 22-23/2018-IA.III (Pt) dated 31.10.2019 and F. No. 22-23/2018-IA.III dated 30.12.2019.

i. **The industry shall meet stack emission standard of 45 mg/Nm^3 instead of 50 mg/Nm^3 as mentioned in additional conditions B (ii)**

ii. **Water sprinklers at strategic locations to be installed for controlling fugitive emission from different sources.**

iii. **The industry shall take up additional plantation of 500 trees in area adjacent to the project area in consultation with concerned D.F.O. This will be in addition to 2085 trees as given in Annexure-1.**

iv. **STP of adequate capacity for domestic waste water to be installed as proposed.**

v. **Slag to be used for land filling and road construction.**

vi. **Monitoring of compliance of EC conditions shall be submitted with third party audit every year.**

vii. **The minimum amount of CER shall be 1.5 x Rs.79.8096 lakhs = Rs.119.72 lakhs.**

The contact details of the proponent and the name of the consultant are given below –

Name of the Contact person with Designation	Mr. Sandip Kejriwal, Managing Director
Address	Chatterjee International Centre, 33A, Chowringhee Road, 11th floor, Suite # 1, 6 & 11, Kolkata – 700 071
Email	info@kejriwalcastings.com
Telephone Number; Fax Number	2226 2312, 2226 2313, 2226 3145 Fax: 2226 2314
Name of the Environmental Consultant	M/s Pacific Scientific Consultancy Pvt. Ltd.

Yours Sincerely,

Sd/-
(Niraj Singhal, IFS)
Chief Environment Officer &
Member Secretary, SEIAA

'roposed conditions for Environmental Clearance for the proposed setting up of DI Pipe manufacturing unit of capacity 97,200 MT/annum at Vill – Gopalpur, JL No. 58, Bamunara Industrial Area, Mouza – Bamunara, PS – Kanksa, Durgapur – 713212, Dist – Paschim Bardhaman, West Bengal by M/s. Kejriwal Castings Limited.

No. 388/1(5) / EN / T-II-1 /066/ 2018 Date :18 /02 / 2020

Copy forwarded to :-

1. Secretary, SEAC & M.S. WBPCB
2. Officer-in-Charge, Regional Office (Eastern Zone), Ministry of Environment & Forests, Government of India, A-3, Chandrashekharpur, Bhubaneswar – 751 023, Orissa.
3. Chief Inspector of Factories, Factories Directorate, New Secretariat Building, 8th Floor, 1, Kiran Shankar Roy Road, Kolkata – 700 001.
4. The Divisional Forest Office, Shastri Ave, AranyaPally, Durgapur, West Bengal 713212.
5. Guard file / Record file.

Chief Environment Officer &
Member Secretary, SEIAA

Annexure –1

LIST OF TREES FOR PLANTATION

Sl. No.	*BOTANICAL NAME*	COMMON NAME	QUANTITY
1.	*Butea monosperma*	Palash	200
2.	*Ficus religiosa*	Aswatha	150
3.	*Cassia fistula*	Amaltas	170
4.	*Azadiracta indica*	Neem	230
5.	*Acacia nilotica*	Babla	115
6.	*Mahua longifolia*	Mahua	270
7.	*Alstonia scholaris*	Chatim	230
8.	*Tamarindus indica*	Tentul	100
9.	*Neolamarckia cadamba*	Kadam	140
10.	*Bauhinia variegata*	Kanchan	230
11.	*Polyalthia longifolia*	Devdaru	250
Total			**2085**

Member Secretary, State Level Environmental Impact Assessment Authority

ANNEXURE - IV

Standard EC Conditions for Induction/ Electric Arc Furnace & Rolling Mills

I. Statutory compliance:

i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.

ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.

iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)

iv. 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 concerned State pollution Control Board/ Committee.

v. 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.

vi. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.

II. Air quality monitoring and preservation

i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through laboratories recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.

iii. The project proponent shall install system carryout Continuous Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released

(e.g. PM_{10} and $PM_{2.5}$ in reference to PM emission, and SO_2 and NOx in reference to SO_2 and NOx 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. (case to case basis small plants: Manual; Large plants: Continuous)

iv. The project proponent shall submit monthly summary report of continuous stack emission and air quality monitoring and results of manual stack monitoring and manual 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.

v. Appropriate Air Pollution Control (APC) system shall be provided for all the dust generating points including fugitive dust from all vulnerable sources.

vi. The project proponent shall provide leakage detection and mechanised bag cleaning facilities for better maintenance of bags.

vii. Sufficient number of mobile or stationery vacuum cleaners shall be provided to clean plant roads, shop floors, roofs, regularly.

viii. Recycle and reuse iron ore fines, coal and coke fines, lime fines and such other fines collected in the pollution control devices and vacuum cleaning devices in the process after briquetting/ agglomeration.

ix. The project proponent shall use leak proof trucks/dumpers carrying coal and other raw materials and cover them with tarpaulin.

x. The project proponent shall provide covered sheds for raw materials like scrap and sponge iron, lump ore, coke, coal, etc.

xi. The project proponent shall provide primary and secondary fume extraction system at all melting furnaces.

xii. Design the ventilation system for adequate air changes as per ACGIH document for all tunnels, motor houses, Oil Cellars.

III. Water quality monitoring and preservation

i. The project proponent shall install 24x7 continuous effluent monitoring system with respect to standards prescribed in Environment (Protection) Rules 1986 vide G.S.R 277 (E) dated 31st March 2012 (applicable to IF/EAF) as amended from time to time; 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 recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories. (case to case basis small plants: Manual; Large plants: Continuous)

ii. The project proponent shall monitor regularly 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 recognised under Environment (Protection) Act, 1986 and NABL accredited laboratories.

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.

iv. Adhere to 'Zero Liquid Discharge'.

v. Sewage Treatment Plant shall be provided for treatment of domestic wastewater to meet the prescribed standards.

vi. The project proponent shall provide the ETP for effluents of rolling mills to meet the standards prescribed in G.S.R 277 (E) 31st March 2012 (applicable to IF/EAF) as amended from time to time.

vii. 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

viii. The project proponent shall practice rainwater harvesting to maximum possible extent.

ix. The project proponent shall make efforts to minimise water consumption in the steel plant complex by segregation of used water, practicing cascade use and by recycling treated water.

IV. Noise monitoring and prevention

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.

ii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

V. Energy Conservation measures

i. The project proponent shall provide waste heat recovery system (pre-heating of combustion air) at the flue gases of reheating furnaces.

ii. Practice hot charging of slabs and billets/blooms as far as possible.

iii. Ensure installation of regenerative type burners on all reheating furnaces.

iv. 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.

v. Provide the project proponent for LED lights in their offices and residential areas.

VI. Waste management

i. Used refractories shall be recycled as far as possible.

ii. Oily scum and metallic sludge recovered from rolling mills ETP shall be mixed, dried, and briquetted and reused melting Furnaces

iii. 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 of Understanding in this regard shall be submitted to the Ministry's Regional Office.

iv. The waste oil, grease and other hazardous waste shall be disposed of as per the Hazardous & Other waste (Management & Transboundary Movement) Rules, 2016.

v. Kitchen waste shall be composted or converted to biogas for further use.(*to be decided on case to case basis depending on type and size of plant*)

VII. Green Belt

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

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.

VIII. Public hearing and Human health issues

i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.

ii. The project proponent shall carry out heat 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.

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 structures to be removed after the completion of the project.

iv. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

IX. Corporate Environment Responsibility

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.

ii. The company shall have a well laid down environmental policy duly approve 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

shareholders / 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.

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 directly to the head of the organization.

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 not to 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.

v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

vi. All the recommendations made in the Charter on Corporate Responsibility for Environment Protection (CREP) for the plants shall be implemented.

X. Miscellaneous

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 at least in 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.

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.

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.

iv. The project proponent shall monitor the criteria pollutants level namely; PM_{10}, SO_2, 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.

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.

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.

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.

i. The project authorities must strictly adhere to the stipulations made by the State Pollution Control Board and the State Government.

ii. 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.

viii. 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).

ix. 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.

x. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

xi. The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner shall implement these conditions.

xii. 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.

xiii. 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.

xiv. 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.

*****

ANNEXURE-2
Copy of CTE

NOC NO159450

SPEED POST

WEST BENGAL POLLUTION CONTROL BOARD

Paribesh Bhawan
10A, Block – LA, Sector III, Bidhannagar
Kolkata - 700 106

Memo No. 145 -2N-40/2018(E) Dated 10.06.2020

From :
Member Secretary,
West Bengal Pollution Control Board

To : M/s. Kejriwal Castings Limited,
Bamunara Industrial Area, Durgapur - 713212.

Sub : Consent to Establish (NOC) from Environmental Point of View

Ref : i) Your letter No. Nil Dated 03.03.2020
ii) EC issued by SEIAA vide No.388/EN/T-II-1/066/2018 dtd.18.02.2020

WEST BENGAL

Dear Sirs,

In response to the application for Consent to Establish (NOC) for proposed Unit of M/s Kejriwal Castings Limited for ~~manufacturing/storage~~/installation of DI Pipe manufacturing Unit of capacity 97,200 MT/annum. at Khatian No.5770, J.L. No.58, Vill-Gopalpur, Bamunara Industrial Area, Mouza-Bamunara, PS-Kanksa, Durgapur, PIN-713212,Paschim* this is to inform you that this Board hereby grants the Consent to Establish (NOC) from the environmental point of the above subject to the following conditions and special conditions annexed.

*Bardhaman, West Bengal

1. The quality of sewage and trade effluent to be discharged from your factory shall satisfy the permissible limits as prescribed in IS : 2490 (Pt. I) of 1974, and/or its subsequent amendment and Environment (Protection) Rules 1986.

2. Suitable measures to treat your effluent shall be adopted by you in order to reduce the pollutional load so that the quality of the effluent satisfies the standards mentioned above.

3. You shall have to apply to this Board for its consent to operate and discharge of sewage and trade effluent according to the provisions of the water (Prevention & Control of Pollution) Act, 1974. No sewage or trade effluent shall be discharged by you without prior consent of this Board.

4. All emission from your factory shall conform to the standards as laid down by this Board.

5. No emission shall be permitted without prior approval of this Board and you shall apply to this Board for its consent to operate and atmospheric emission as per provision of the Air (Prevention & Control Pollution) act, 1981.

6. No industrial plant, furnace, flues, chimneys, control equipment, etc. shall be constructed/reconstructed/ erected/re-erected without prior approval of this Board.

10/06/2020

Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

)C NO159450

You shall comply with

(i) Water (Prevention and Control of Pollution) Cess Act, 1977, if applicable.
(ii) Water (Prevention and Control of Pollution) Cess Act, 1978, if applicable.
(iii) Environment (Protection) Act, 1986
(iv) Environment (Protection) Rules, 1986
(v) Hazardous Wastes (Management and Handling) Rules, 1989 and Amended Rules, 2000
(vi) Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and Amended Rules, 2000
(vii) Manufacture, Use, Import and Storage and Hazardous Micro-Organisms, Genetically Engineered Organisms or Cell Rules, 1989
(viii) The Public Liability Insurance Act, 1991 and Amended Act, 1992
(ix) The Public Liability Insurance Rules, 1991 and Amended Rules 1993
(x) Biomedical Wastes (Management & Handling) Rules, 1998 and Amended Rules 2000 if applicable.
(xi) Recycled Plastics Manufacture and Usage Rules 1999, if applicable and
(xii) Ozone Depleting Substances (Regulation & Control) Rules, 2000, if applicable

8. You will have to abide by any other stipulations as may be prescribed by any authority/local bodies/Government Departments etc.

SPECIAL CONDITION :

Gross Capital Investment - Rs.10,641.28 Lakhs.

Please refer to Annexure.

Any violation of the aforesaid conditions shall entail cancellation of this Consent to Establish (NOC)

Yours faithfully.

10/6/2020.

Member Secretary/ SR.ENV.ENGR.
West Bengal Pollution Control Board (EIM CELL)

Memo No. 145 -2N-40/2018(E)

Dated 10.06.2020

Sr. Environmental Engineer
W.B. Pollution Control Board
Dept. of Environment, GoWB

Copy forwarded for information to :

1. Chief Inspector of Factories, Government of West Bengal, N. S. Building, Kolkata-700 001
2. Director of Industries/Director of Cottage & Small Scale Industries, Government of West Bengal, N. S. Building. Kolkata-700 001
3. Guard file, West Bengal Pollution Control Board.
4. Environmental Engineer, I/II/Alipur R.O./Howrah R.O./Hooghly R.O./B.R.O./D.R.O./Haldia R.O./S.R.O./ Asansol/ Sub-R.O./WBPC Board

Himalaya Bhawan Delhi Road, Dankuni Dist. Hooghly	Vill, Panpur Kalyani Expressway P.O. Narayanpur Dist. 24 Pgs. (N)	Sahid Khudiram Sarani City Centre, Durgapur-16 Dist. Burdwan	10, Camac Street 2nd Floor Kolkata-700 017
Paribesh Bhawan 10A, LA-Block, Sector-III Salt Lake City, Kolkata - 700 098	Block-05 at 40 Flats Complex Adjacent to Priyambada Housing Estate P.O. : Khanjanchak, P.S. Durgachak Haldia-721602 Dist. : Purba Medinipur	Paribahan Nagar Matigara, Siliguri Dist.-Darjeeling	
Satya Chowdhury Indoor Stadium Balurchar Bandh Road Malda-732101	Asansol Sub-Regional Office ADDA Commercial Market (2nd Floor) Opposite Asansol Fire Station G.T. Road, Asansol-713 301		

10/6/2020.

Member Secretary/ SR.E.E.
West Bengal Pollution Control Board (EIM CELL)
Sr. Environmental Engineer
W.B. Pollution Control Board

Annexure – I to NOC Sl. No. **NO159450**

Special conditions issued to M/s. Kejriwal Castings Limited at Khatian No. 5770, JL No. 58, Vill – Gopalpur, Bamunara Industrial Area, Mouza – Bamunara, PS – Kanksa, Durgapur, Pin – 713 212, Dist – Paschim Bardhaman, West Bengal.

A) Emission:-

1) All stacks attached to induction furnaces, Magnesium converter, annealing furnace, Zinc coating equipment barrel grinding sources should be equipped with bag filter of proper design to keep the emission level below 50 mg/Nm3.
2) Stacks should have sampling port, platform and ladder as per the Emission Regulation Part–III of CPCB.
3) The National Ambient Air Quality Emission Standards issued by MoEF vide G.S.R 826(E) dated 16th November, 2009 as enclosed should be complied with.
4) Water sprinklers and dry fog system to be installed at strategic locations to arrest fugitive emission.
5) The project proponent should install 24x7 air monitoring devices to monitor air emission, as provided by CPCB.
6) Stack of adequate height and diameter with continuous stack monitoring facilities for all the stacks shall be provided.
7) Secondary emission should be restricted to less than 100 mg/Nm3.
8) Dust collection and extraction system shall be provided at appropriate places to control fugitive dust emissions such as bag filters to control MgO dust from Magnesium treatment, sand particles from Annealing furnace (Core and cleaning), Zn and ZnO dust from Zinc coating and sand particles from barrel grinding sources. Dust suppression system shall be provided in unloading areas to control fugitive emissions.
9) Gaseous emission levels including secondary fugitive emissions from all the sources should be controlled within the latest permissible limits issued by the Ministry vide G.S.R. 414 (E) dated 30th May, 2008 and regularly monitored, Guidelines / Code of Practice issued by the CPCB should be followed.

B) Effluent :-

1) Process – Nil.
2) No effluent shall be discharged and 'zero' discharge shall be adopted.
3) Cooling water to be recycled.
4) Domestic - to be discharged through septic tank to soak-pit within the unit premises.

C) Solid Waste : -

1) Slag form induction furnace to be used for land filling and road making.
2) Hazardous Waste to be collected and disposed off as per the Hazardous and Other Wastes (Management and Trans boundary Movement) Rules, 2016.
3) All the other wastes such as core sand, iron scrap, Magnesium Oxide dust, cement sand etc. shall be properly utilized or disposed off in environment friendly manner. No solid waste shall be disposed off outside the premises.

Annexure – I to NOC Sl. No. **NO159450**

Special conditions issued to M/s. Kejriwal Castings Limited at Khatian No. 5770, JL No. 58, Vill – Gopalpur, Bamunara Industrial Area, Mouza – Bamunara, PS – Kanksa, Durgapur, Pin – 713 212, Dist – Paschim Bardhaman, West Bengal.

D) General :-

1) Noise Control – Ambient noise not to exceed the permissible limit.
2) No additional machinery / equipment can be installed without permission from this Board.
3) Adequate arrangement for dust suppression in raw material handling section to be provided.
4) At least 33% of the project area should be under green belt.
5) Rain water harvesting must be done however recharging of harvested rain water is not allowed under any circumstances.
6) Conditions laid down in the Environmental Clearance obtained for the project from SEIAA, West Bengal vide no. 388/EN/T-II-1/066/2018 dated 18.02.2020 must be strictly complied with.
7) Good house-keeping to be maintained.
8) All Statutory clearances/licenses from Competent Authorities, as applicable, to be obtained.
9) This NOC is valid up to **30.03.2027** for setting up the expansion project.

15/06/2020

Sr. Environmental Engineer (EIM Cell)/Member Secretary
West Bengal Pollution Control Board

Sr. Environmental Engineer
W. B. Pollution Control Board
Dept. of Environment, GoWB

ANNEXURE-3
Copy of CTO

WEST BENGAL POLLUTION CONTROL BOARD

'Paribesh Bhawan'
Bldg. No. - 10A, Block - LA, Sector-III
Salt Lake City, Kolkata-700 098

[Renewal]

Consent Letter Number : CO123383

Memo Number : 124-7/WPBD-cont(2604)/05. Date : 01/02/2022

Consent to Operate

under

Section 25 & 26 of the **Water (Prevention and Control of Pollution) Act, 1974** and
Section 21 of the **Air (Prevention and Control of Pollution) Act, 1981**

The West Bengal Pollution Control Board (hereinafter referred to as State Board) under the provisions of Section 25 & 26 of the Water (Prevention and Control of Pollution) Act, 1974, as amended and Section 21 of the Air (Prevention and Control of Pollution) Act, 1981, as amended and Rules and Orders made thereunder, hereby grants its consent to :

Kejriwal Castings Limited

(Address of Regd. office/Head/Office/City Office)

(hereinafter referred to as Applicant) for its unit located at Bamunara Industrial Area, Gopalpur, P.O- Bamunara, P.S- Kanksa, Paschim Bardhaman- 713212

(Detailed address of the manufacturing unit)

for a period from date of issue to 31/12/2026

to operate the industrial unit and to discharge liquid effluent and to emit gaseous effluent from the premises/land of the industrial unit, in accordance with the conditions as mentioned in the Annexure to this consent letter provided on any day at any instance the quantity and quality of liquid discharge and gaseous emission shall not exceed the permissible limit as specified in the Table I & II of this consent letter and in the Environmental (Protection) Act, 1986.

Breach of the conditions and / or failure to comply with the directions as set out in the Annexure shall render the applicant liable for prosecution under the provisions of the Water (Prevention and Control of Pollution) Act, 1974 and Air (Prevention and Control of Pollution) Act, 1981.

The State Board reserve the right to revoke, withdraw or make any reasonable variation / change / alter the conditions of this consent letter giving one month's notice to the applicant.

W.B. Pollution Control Board * Seal * Regional Office Durgapur-16 * Sahid Khudiram Sarani *

For and on behalf of the State Board

(Member Secretary/~~Chief Engr.~~/ ~~Sr. Env. Engr.~~ / Env. Engr. / ~~Asstt. Env. Engr.~~)

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

ANNEXURE

Consent to ..... Kejriwal Castings Limited .....

for its unit at ..... Bamunara Industrial Area, Gopalpur, P.O- Bamunara, P.S- Kanksa, Paschim Bardhaman- 713212 .....

Conditions :

01. This Consent is valid for the manufacture of :-

Sl. No.	Name of major products and by-products	Quantity manufactured per month
01	DI Castings Pipe	4050 MT
02		
03		
04		
05		
06		
07		
08		
09		
10		
11		
12		

02. The *Applicant* shall remain responsible for quantity and quality of liquid effluent and air emissions.

03. **Daily** discharge of industrial liquid effluent shall not exceed ..... 3.50 ..... KL.

04. **Daily** discharge of domestic liquid effluent shall not exceed ..... 12.00 ..... KL.

05. **Daily** discharge of mixed (industrial & domestic) liquid effluent shall not exceed ..... Nil ..... KL.

06. The *Applicant* shall discharge liquid effluent to .* Industrial - ETP to CMIL and Domestic - septic tank to soak pit for outside drain ..... (place of discharge) through ..... 02 (two) ..... nos. outlets / outfalls.

07. To bring into any altered or new outlet/outfall or to change the place of discharge, the Applicant shall have to inform the Board and obtain prior permission of the Board in this effect.

08. The *Applicant* shall provide comprehensive facility for treatment of industrial liquid waste and domestic liquid waste (sewage, sullage and liquid effluent generated from canteen), and operate and maintain the same continuously so that the quality of final effluent conforms to the *Standard* as given in Table-I in page 03.

1/2/2022

(~~Member Secretary/Chief Engr.~~/ ~~Sr. Env. Engr.~~ / Env. Engr. / ~~Asstt. Env. Engr.~~)

Regional Engineer
Environment
Durgapur Regional Office
West Bengal

Continued.....

Consent to Kejriwal Castings Limited

for its unit at Bamunara Industrial Area, Gopalpur, P.O-Bamunara, P.S-Kanksa, Paschim Bardhaman-713212

Table-I

Outlet No.	Nature of effluent	Parameters	Standard	Frequency of effluent sampling
01	Industrial	pH	Between : 5.5 to 9.0	
02	Domestic	Total Suspended Solids	Not to exceed : 100 mg/l.	yearly.
		Biochemical Oxygen Demand (3day at 27°C)	Not to exceed : 30 mg/l.	
		Chemical Oxygen Demand	Not to exceed : 250 mg/l.	
		Oil & Grease	Not to exceed : 10 mg/l.	

09. The *Applicant* falls in the Cess paying Category of the Water (Prevention and Control of Pollution) Cess Act, 1977 and Rules made thereunder and the Applicant shall comply with the provisions of the said Act and Rules made thereunder.

10. **Daily** water consumption for the following purposes should not exceed :-

- Industrial cooling, spraying in mine pits and boiler feed water (Water used for gardening should be included in this category of use) → 125.00 KL
- Domestic purpose → 15.00 KL
- Processing whereby water gets polluted and the pollutants are easily biodegradable → 6.00 KL
- Processing whereby water gets polluted and the pollutants are not easily biodegradable → Nil KL

The *Applicant* shall regularly submit to the Board the Returns of Water Consumption in the prescribed form and pay the Cess as specified under Section 3 of the said Act.

1/2/2011

(~~Member Secretary~~/~~Chief Engr.~~/ ~~Sr. Env. Engr.~~ / Env. Engr./~~Asstt. Env. Engr.~~)

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

Continued.....

Consent to ...Kejriwal Castings Limited.....

for its unit at Bamunara Industrial Area, Gopalpur, P.O- Bamunara, P.S-Kanksa, Paschim Bardhaman-713212

11. The *Applicant* shall install suitable device for measuring the volume of water consumed for different purposes as mentioned above giving correct result to the satisfaction of the *State Board.*

12. All the stacks connected to various sources of emissions must be designated by numbers such as S-1, S-2, S-3, etc., and this must be painted/displayed to faciliate identification.

13. The *Applicant* shall install comprehensive control system consisting of pollution control equipment as is warranted with reference to generation of air emissions and operate and maintain the same continuously so as to achieve the level of pollutants of the *Standard* as given in Table-II below :

Table-II

Stack No.	Stack height from G.L., (in mts.)	Stack attached to (sources and control system. if any):	Volume $Nm^3/hr.$	Velocity of gas emission m/sec	Concentrations of parameters not to exceed					Frequency of emission sampling
					SPM (mg/Nm^3)	CO (%v/v)				
S-I										
S-2										
S-3										
S-4										
S-5										
S-6										
S-7										
S-8										
S-9										
S-10										

P.T. 000 Annexure-I

(Member Secretary/~~Chief Engr.~~/ ~~Sr. Env. Engr.~~ / Env. Engr. / ~~Asstt. Env. Engr.~~)

Assistant Engineer
Environment
Durgapur Regional Office
West Bengal

Continued.....

Consent to ...Kejriwal Castings Limited...

for its unit at ...Bamunara Industrial Area, Gopalpur, P.O-Bamunara, P.S- Kanksa, Paschim Bardhaman - 713212...

14. The *Applicant* shall provide ports in the stack(s) and other necessary permanent facilities such as ladder, platform, etc. for monitoring/sampling the air emissions and the same shall be made available for inspection and use by the *State Board's* staff as well as *State Board's* authorised agencies.

15. The *Applicant* shall observe the following fuel consumption pattern :-

Sl. No	Type of fuel	Quantity consumed ~~per day~~	Fuel burning operation where the fuel is used
01	CBM	48000 m3/year	Annealing Furnace
02	HSD	—	DG set.
03			
04			
05			

16. The *Applicant* shall maintain the generation and treatment/disposal of non-hazardous solid waste as specified below :-

Type of waste	Quantity	Treatment	Disposal
(1) Slag Lump (2) Dust of APCD	120 MT/month 1.5 MT/month	— —	To be disposed off in environmentally safe manner (Sl. 1 to 3)
(3) ETP sludge (4) Zinc dust	4.5 MT/month 130 Kg/day		
(5) Bitumen Containers (empty) (6) Used oil / spent oil	1.5 nos/day 3 litre/day	— —	To be disposed of through CBWTSDF / authorized reprocessor as applicable (Sl. 4 to 6)

17. The *Applicant* shall take adequate measures for control of noise levels from its own sources within the premises within the limit given below :-

Time	Limit in dB(A) L_{eq}
Day Time (06 a.m. to ~~09~~ 10 p.m.)	65
Night Time (~~09~~ 10 p.m. to 06 a.m.)	55

18. The *Applicant* shall at all times maintain good house-keeping, proper working order, and operate efficiently for control of pollution from all sources so as not to cause nuisance to surrounding areas/inhabitants and to achieve compliance with the terms and conditions of the consent.

19. The *Applicant* shall bring about at least 33% of the available open land under the green coverage / plantation.

20. The *Applicant* shall provide for an alternate electric power source sufficient to operate all pollution control facilities installed by the *Applicant* to maintain compliance with the terms and conditions of the consent. In absence of such an alternate electric power source, the *Applicant* shall stop, reduce or otherwise control production to abide by the terms and conditions of the Consent regarding pollution level.

21. The *Applicant* shall install a separate energy meter showing the consumption of energy for operation of pollution control devices.

22. The *Applicant* shall ensure that fugitive emissions from the activity are controlled so as to maintain clean and safe environment in and around the factory premises.

23. The *Applicant* shall provide drainage system for conveying industrial and domestic liquid waste. Storm-water drain shall be kept separate from the drainage system meant for industrial and domestic liquid waste

[signature] 1/2/2022

(~~Member Secretary/Chief Engr./ Sr. Env. Engr.~~ / Env. Engr. / ~~Asst. Env. Engr.~~)

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

Continued.......

Consent to ...Kejriwal Castings Limited.....

for its unit at Bamunara Industrial Area, Gopalpur, P.O – Bamunara P.S – Komksa, Paschim Bardhaman – 713212

24. The *Applicant* shall maintain a separate register showing consumption of chemicals used in pollution control systems.

25. The *Applicant* shall get the samples of hazardous wastes/leachates analysed at least once in ..... from the laboratory recognised of the West Bengal Pollution Control Board and ensure that they conform to the limits stipulated. Test reports shall be sent to the Board.

26. The *Applicant* shall provide adequate and safe facility for collection of air, waste water and solid waste samples by the *State Board's* staff as well as *State Board's* authorised agencies.

27. The *Applicant* shall submit to the *State Board* by the 30th September of every year the Environmental Statement Report for the financial year ending 31st March of the current year in the prescribed form (Form -V) as required under the provisions of rule 14 of the Environment (Protection) [Second Amendment] rules, 1992.

28. The *Applicant* shall allow the Officers of the *State Board* to enter into the applicant's premises at any reasonable time to inspect the pollution control systems as well as monitoring and measuring devices in connection with prevention & control of pollution.

29. The *Applicant* shall maintain an Inspection Book in the factory premises which shall be made available to Officers & employees of the *State Board* for inspection, review and to write down any direction or observation as is deemed necessary during the inspection from time to time.

30. The *Application* shall furnish to the *State Board* all information in respect of quality, quantity, rate of discharge, place of discharge of liquid effluent and air emissions.

31. The *Applicant* shall maintain adequate number of qualified and trained personnel among his staff for proper maintenance and operation of the effluent treatment and / or emission control devices and for overall environment management of the industry.

32. The *Applicant* shall have to make registration for the use of groundwater if any, with Central Ground Water Authority.

33. The *Applicant* shall intimate to the *State Board* immediately of any occurrence or apprehension of occurrence of discharge of any poisonous, noxious or pollutants in excess of quality as well as quality as mentioned earlier to any receiving water body/receiving system or to atmosphere owing to accident or other unforeseen incident/event including natural disaster. The *Applicant* Shall (i) take all steps adequate to prevent such accident discharge/release of poisonous, noxious or pollutants and to limit their consequences to persons and the environment, (ii) provide to the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety and mitigate the accidental release of poisonous noxious or pollutants to the environment.

34. The *Applicant* shall make an application to the *State Board* in the prescribed form for renewal of the consent at least 60 (sixty) days before the date of expiry of this Consent.

35. The *Applicant* shall not make any alternation/modification/expansion in the existing manufacturing process and equipment as well as the pollution control system without prior approval of the Board.

36. The *Applicant* shall comply with the conditions as laid down in the Manufacture, Storage and Import of hazardous Chemicals Rules, 1989 and Hazardous Wastes (Management & Handling) Rules, 1989.

Additional Conditions As per Annexure II

11/7/2011

(Member Secretary/~~Chief Engr.~~/ ~~Sr. Env. Engr.~~ / Env. Engr. / ~~Asst. Env. Engr.~~)

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

Annexure I of Consent to Operate Sl. No. CO123383 of M/s. Kejriwal Castings Limited, located at Bamunara Industrial Area, Gopalpur, P. O- Bamunara, P. S- Kanksa, Paschim Bardhaman- 713212

Stack No.	Stack ht. from G. L in mt.	Stack attached to (sources and control system, if any):	Volume $Nm^3/hr.$	Velocity of gas emission m/sec	Concentrations of parameters not to exceed			Frequency of sampling
					SPM (mg/Nm^3)	CO (% v/v)		
1	30m (Common)	Induction Furnaces (4 x 4MT/batch each) along with sintering cum holding twin share panel, [5nos. 4Ton capacity crucible complete with all accessories equipped with separate swiveling hood and common bag filter with common stack]	-	-	45	-	-	Quarterly
2	30m	Annealing Furnace (CBM fired) with stack	-	-	50	-	-	Quarterly
3	30m	Magnesium Converter with APCD- Bag Filter & stack	-	-	50	-	-	Quarterly
4	30m	Zinc Spray Station with APCD- Bag Filter & stack	-	-	50	-	-	Quarterly
5	30m	Paint Spray Machine with APCD- Hepafilter and stack	-	-	50	-	-	Quarterly
6	7m	1 x 400KVA D. G set	-	-	150	1	-	Quarterly

1/2/20

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

ADDITIONAL CONDITIONS

Annexure II of Consent to Operate Sl. No. CO123383 of M/s. Kejriwal Castings Limited, located at Bamunara Industrial Area, Gopalpur, P. O- Bamunara, P. S- Kanksa, Paschim Bardhaman- 713212

1. 'Hazardous Waste Authorization' should be obtained from the State Board immediately as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and its amendment thereafter.
2. Due water cess, if any, should be paid immediately.
3. This Consent may be revoked subject to valid public complaint for violation of environmental norms.

1/4/20

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

Environmental Engineer
Durgapur Regional Office
West Bengal Pollution Control Board

ANNEXURE-4

Water NOC

(Scan QR Code with QR Reader)

Government of West Bengal
Department of Water Resources
Investigation and Development (WRIDD)
State Water Investigation Directorate
(SWID)

Form 4A
[See rules 9(3) and 10(5)]

PERMIT FOR SINKING OF NEW WELL (ABSTRACTION OF GROUND WATER FOR INDUSTRIAL/ INFRASTRUCTURAL/COMMERCIAL USE)

[U/S 7(3)(b)/7(4)(b)/7(5)(a) of the West Bengal Ground Water Resources (Management, Control and Regulation) Act, 2005.)]

PERMIT NO. : P2303058000000466901TSE

1) (a) Name of the Applicant with Designation : Mr. Rajat Ginodia, HEAD ADMINISTRATION

(b) Name of the Industry/Infrastructure/Commercial Unit : KEJRIWAL CASTINGS LIMITED

(c) Type of Industry (Micro/Small/Medium/Large) :Medium

(d) Location details of the Industry/Infrastructure/Commercial Unit :

District : Paschim Bardhaman

Block : Kanksa

Mouza : Bamunara (CT)

JL No. : 058

Plot No. : 00000/04669

Lat/Long : 23.5084N, 87.3657E

Subdivision/Corporation/Municipality/Urban Development Authority/ Statutory Industrial Notified Area/SEZ/Gram Panchayat : Durgapur

Assessee No. (for CLA only) : NA

Village/Ward No. : Banskopa

Borough No. : NA

Holding No. : NA

(e) Communication Address : Kejriwal Castings Limited, Bamunara Industrial Estate, Post Office:- Bamunara BO, District :- Paschim Bardhaman, Pin Code :- 713212.

(f) Book No. & Serial No. of the Application Form and date of submission : WB-Ind/01, 212512403300000357, 13-Aug-2024

(g) Approved in DLA/CLA/SLA/HLA details : Approved in 21st DLA, Paschim Bardhaman meeting, Dt:17/09/2024

(h)Specimen Signature of the applicant :

2) Particulars of the proposed well and pumping device :

(a) Purpose of the well (domestic & drinking/processing/storing/manufacturer/others) : Industrial

(b) Type of the well : Tube Well(T)

(c) Approx depth of the well (m) : 75

(d) Assembly size (for tube well) : 150 mm X 100 mm

(e) Approx Stainer length (for tube well) : 12

(f) Type of the pump to be used : Submersible(S)

(g) H.P. of the pump : 5 HP

(h) Operational device : Electrical

(i) Rate of withdrawal (m3 /hr) : 25

(j) Maximum allowable running hours per day : 6

(k) Maximum allowable running days per year : 310

This permit authorizes the owner applicant (user) to sink a well in the location specified at SL.(1d) for extraction of ground water at a rate not exceeding that as shown at SL.(2)(i) and for running hours/day and maximum running day per year as shown at SL.(2) (j) & (k), and is valid subject to the observance of the conditions stated overleaf.

Place : Paschim Bardhaman
Date : 01-Oct-2024

KEJRIWAL CASTINGS LIMITED | Mr. Rajat Ginodia, HEAD ADMINISTRATION | Paschim Bardhaman
(Scan QR Code with QR Reader)

[A.] General Conditions :

(1) In case of any change of ownership of the proposed well, fresh permit has to be obtained.
(2) No change of location, design, rate of withdrawal and pumping device in respect of the proposed well as Indicated at SL (1) and (2) of this certificate shall be made without prior permission of the Competent Authority. Any deviation in this regard shall lead to cancellation of this permit.
(3) In case, any of the particulars/information furnished by the applicant in his application for issuance of this permit is found to be incorrect during verification at any subsequent stage, this permit is liable for cancellation.
(4) Any other condition imposed by the concerned Authority.

[B.] Mandatory Conditions:

1. The sinking of Tube-Well should be done within one year from the date of issuance of the permit. If not, then user must be informed to the permit issuing authority with a satisfactorily explanation.
2. Installation of Separate Energy/Electric Meter is mandatory for each tube well & confirmation of the same shall be intimated to the permit issuing authority within 45 days from the date of installation of the tube well.
3. Provision Arrangement of "Rooftop Rain Water Harvesting" is mandatory in the premises as per the prevailing Model Building By Laws, for all applicant. The stored water shall be utilised for beneficial uses (other than drinking purpose) by the applicant.
4. Groundwater Quality report from Govt. approved/NABL accredited lab to be submitted by the applicant to the permit issuing authority in yearly basis.
5. Industries extracting groundwater more than 100 m3/day shall undertake annual water audit through certified auditor and submit the audit report within the three months to the DLA/CLA. All such industries shall be required to reduce their ground water use by 20% over next three years through appropriate means techniques.
6. The Safe Distance criteria (as per the instruction of DLA/CLA/SLA/HLA) for more than one tube wells

7. Installation of tamper proof digital Flow Meter with Telemetry Sensor System is mandatory for Medium to Large scale units immediately after installation of the tube well and intimation regarding the installation shall be communicated to the concerned DLA/CLA within 30 days from the date of installation of the Flow Meter. The monthly water meter reading should be recorded and submitted to the concerned authority on annual basis. The server will be maintained by the supplier of the instrument and access will be provided to the authority. For small scale units an ISI marked tamper proof Digital Flow Meter is mandatory. The daily water meter reading with time (starting & ending time of pump) should be recorded and submitted to the permit issuing authority on annual basis.
8. Installation of Monitoring Well/Piezometers with Digital Water Level Recorders (DWLR) and telemetry shall be mandatory for tube wells having rate of discharge equals or more than of 50 m3 /hr. Depth and zone tapped of piezometer should be commensurate with that of the pumping well. This data shall be made available permit issuing authority. The server will be maintained by the supplier of the instrument and access will be provided to the permit issuing authority.
9. Authority may ask the applicant for installation of purpose –build observation well for ground water monitoring for any cases other than mandatory provision, if required.
10. Environmental Clearance Consent to Establish (CTE) Consent to Operate (CTO) for Medium to Large Scale Unit from SPCB/SEAC/SEIAA, whichever is applicable.
11. BIS Certificate and FSSAI License is mandatory for all Packaged Drinking Water, Food & Beverages Projects before Marketing. A copy of the same has to be submitted to the concerned DLA/CLA.
12. Treated water/waste water shall not be used for recharge to ground water, since it may contain heavy metals & other toxic elements. The treated waters shall be fully used by the proponent or any other agency, who can utilize it without contaminating the underlying aquifer or water bodies.
13. Installation of Sewage Treatment Plants (STP) shall be mandatory for proposed Infrastructure projects, where ground water requirement is more than 20 m3 /day. The water from STP shall be utilized for toilet flushing, car washing, gardening etc.
14. Industries which are likely to cause ground water pollution e.g., Tannery, Slaughter Houses, Dye, Chemical, Coal washery, other hazardous units, etc (as per CPCB list) need to take necessary well head protection measures to ensure prevention of any kind of contamination of ground water.
15. The issue of this permit does not imply that other statutory/administrative clearances shall be granted to the project by the concerned authority. Such authorities would consider the project on merits and take decisions Independently of the permit.
16. In case of permission within KMC area Boring Permit will only be valid after generating KMC License Fee Demand u/s 248 of KMC Act.
17. Violation of any above mentioned conditions will be treated as offence under Section 10 and 16 of the West Bengal Ground Water Resources (Management, Control & Regulation) Act, 2005 and Rules made thereunder.

KEJRIWAL CASTINGS LIMITED | Mr. Rajat Ginodia, HEAD ADMINISTRATION | Paschim Bardhaman
(Scan QR Code with QR Reader)

Signature valid
Digitally Signed.
Name: BINOY KUMAR MAHATO
Date: 01-Oct-2024 16:34:44
Reason: D-Sign
Location: E-Dist 2.0

District Level Authority, Paschim Bardhaman

BITUMEIN COATING CHIMNEY

ANNEALING FURNACE AND MAGNESIUM CONVERTER CHIMNEY

INDUCTION FURNACE CHIMNEY & BAG FILTER

ZINC COATING CHIMNEY AND BAG FILTER

RECEPTION

STAFF QUARTER

ADMINISTRATIVE BUILDING

GREENERY


FERRO
SILICON
LUMPS
SLAG
30


MOULD
SHOP


CAUTION
NO CELL
PHONE ZONE

Sprinkling of Water

ANNEXURE-6

Purchase Order

LEXUS MOTORS LIMITED

TATA MOTORS

Passenger Car Dealer

TAX INVOICE
Issued Under GST Invoice Rules

Original : For Recipient
Duplicate : For Transporter
Triplicate : For Supplier

IRN:9caf686e9c21239bf08f50e1a15a8894b337f37561a0e37ee6f7ac8efea5d599
IRN Ack No:182211237305610
IRN Ack Date:07/01/2022

Date: 07/01/2022 05:33:53 PM

To
KEJRIWAL CASTINGS LIMITED

11TH FLOOR , ROOM NO-11, CHATTERJEE INTERNATIONAL CENTER
33A CHOWRINGHEE ROAD
CHOWRINGHEE NORTH KOLKATA KOLKATA
West Bengal(19) India.
Pin - 700071
A/C Code : 5-1YOFA7N7
Place of Supply : WB

CRN : CR01-22-5153851622451
Invoice no : ILMLBA2122001415

Customer P.O. No - Date :
Transaction no :5-1YOFA7NE
Order No :SO-LexusM-2122-000846
Delivery at : Showroom
HP / HPA / LEASE / SELF LEASE`

Hypothecation :PUNJAB NATIONAL BANK

Customer PAN : AACCK7422R
Customer GSTIN : 19AACCK7422R1ZW
Billing Address:
11TH FLOOR , ROOM NO-11, CHATTERJEE INTERNATIONAL CENTER
33A CHOWRINGHEE ROAD
CHOWRINGHEE NORTH, KOLKATA, KOLKATA
WB, India
Pin - 700071

Dealer PAN : AAACL5356K
Dealer GSTIN : 19AAACL5356K1Z6
Shipping Address:
11TH FLOOR , ROOM NO-11, CHATTERJEE INTERNATIONAL CENTER
33A CHOWRINGHEE ROAD
CHOWRINGHEE NORTH, KOLKATA, KOLKATA
WB, India
Pin - 700071

Particulars	Qty	Unit Price (Rs.)	Amount (Rs.)
Product Code (51231325AJUR) - HSN(8703.80.30)TATA NEXON EV XZ+ LUX DK with Electric Power Train, Battery : Lithium Ion battery, Battery Capacity : 30.2kWh, EPAS, 4 nos. of Alloy Wheel Rims and 1 no. of Steel Wheel Rim & Tyre size 215/60R16, 2498 mm Wheel Base, Seating Capacity- Driver +4,FATC, Power Window Winder-All Doors with remote & auto lock feature, eABS, telematics, 7" TFT Instrument Cluster with 7" Infotainment, Driver & Passenger Airbag, Rear park assist, Auto Headlamp & Wipers, Sun-roof, Leatherette seals, Leatherette Door Trim, Leatherette Arm rest on Console, Onyx Black Body color.	1	1,604,762.00	1,604,762.00
		Concession :	3,809.62
		Unit Price After Concession :	1,600,952.38
		SGST@2.5%:	40023.80952
		CGST@2.5%:	40023.80952
		Total tax :	80,047.62
		Gross Total :	1,681,000.00
		Adjustment Amount :	0.00
		TCS Amount :	16,810.00
		Grand Total :	1,697,810.00

Rupees Sixteen Lakh Ninety Seven Thousand Eight Hundred Ten only.

Color : BLACK_ONYX Chassis no : MAT635011MPPS8742 Motor No : TZ230XS56FJ2100387

Battery Number1 ODT635601221009547

Tax Payable under Reverse Charge - No

Lexus Motors Pvt. Ltd. Kolkata-700156 Auto Mall Rajarhat

This should not be acknowledged as a Financial / Monetary receipt

Kejriwal CASTINGS LIMITED

bsi.

PURCHASE ORDER

Document No : KCL-PUR-05

Vendor TERRA GREEN TECHNOLOGIES (DGP) 36, RASTRAGURU AVENUE KOLKATA - 700 028	PO No KCL/PO/DGP/0503/20-21 Date 28-Sep-20 Amd.Date Offer No Offer Date
Telephone 9831026465 Fax Email tapotanay@terra-green.in GSTIN No 19AALFT5225H1ZW	GSTIN No 19AACCK7422R1ZW I.T. PAN No. AACCK7422R CIN No U27310WB2005PLC103224

Delivery Point **Bamunara Industrial Estate, Bamunara,Durgapur-713212 (W.B)**

With reference to your above mentioned reference no. we are pleased to issue this Purchase Order for the supply of the following items as per the indicated terms & conditions. Kindly acknowledge the receipt and confirm your acceptance of the same within 7 days, failing which it will be treated as acceptable.

Sr No	Item Code	Item Description	Quantity	UOM	Unit Rate ₹	Value ₹

Yours Faithfully
For Kejriwal Castings Limited

APPROVED
Date: 30-Dec-20

Sudipta Bhattacharjee
(Prepared By)

Rajeev Kejriwal
Director
(Approved By)

Last Update

Prime Details	Sudipta Bhattacharjee	30-Dec-20 01:44:40 PM
	Sudipta Bhattacharjee	30-Dec-20 01:45:54 PM

Order Acknowledgement Confirmed by supplier
(Through Mail / Fax / Hand)

Office Address :
33A Chowringhee Road, Chatterjee International Centre , 11th Floor, Suit No: 1 , 6, 8 & 11
Kolkata - 700071 . West Bengal . India Contact No. 033-2226-2312/13/3145 / FAX No. 033-2226-2314
Email : info@kejriwalcastings.com . Website : www.kejriwalcastings.com
Factory Address :
Bamunara Industrial Estate, Bamunara,Durgapur 713212 (W.B)

IST KESIN bsi. ISO 9001

Kejriwal CASTINGS LIMITED

PURCHASE ORDER

Document No : KCL-PUR-05

Vendor
TERRA GREEN TECHNOLOGIES (DGP)
38, RASTRAGURU AVENUE
KOLKATA - 700 028

Telephone 9831026465
Fax
Email tapotaney@terra-green.in
GSTIN No 19AALFT5225H1ZW

PO No KCL/PO/DGP/0603/20-21
Date 28-Sep-20
Amd.Date
Offer No
Offer Date

GSTIN No 19AACCK7422R1ZW
I.T. PAN No. AACCK7422R
CIN No U27310WB2005PLC103224

Delivery Point **Bamunara Industrial Estate, Bamunara,Durgapur-713212 (W.B)**

With reference to your above mentioned reference no. we are pleased to issue this Purchase Order for the supply of the following items as per the indicated terms & conditions. Kindly acknowledge the receipt and confirm your acceptance of the same within 7 days, failing which it will be treated as acceptable.

Sr No	Item Code	Item Description	Quantity	UOM	Unit Rate ₹	Value ₹
1	DGP-1055507	24 x 7 Continuous Emission Monitoring System	1.000	Set	₹ 1,660,000.00	₹ 1,660,000.00
		(Scope of Supply & Other Details as per Annexure - 1)			Delivery Date	28-Feb-21
					Total :	₹ 1,660,000.00

Rupees Sixteen Lac Sixty Thousand Only

TERMS AND CONDITIONS

Price Basis	FOR Destination	CGST	9%
P And F	Included in the above Price	SGST	9%
Freight	Free delivery at our works	IGST	
Transportation	Free Delivery	CESS	
Insurance	Transit Insurance will be arranged by you at your cost	Scope of Insp	As per Annexure - 1
Payment Terms	As per Annexure - 1		
Guarantee	As per Annexure - 1		
Delivery Terms	As per Annexure - 1		
Test Certificate	Manufacturing Test Certificate should be send to us along with the Invoice		
Notes			

Office Address :
33A Chowringhee Road, Chatterjee International Centre , 11th Floor, Suit No: 1 , 6, 8 & 11
Kolkata – 700071 , West Bengal , India Contact No. 033-2226-2312/13/3145 , FAX No. 033-2226-2314
Email : info@kejriwalcastings.com , Website : www.kejriwalcastings.com
Factory Address :
Bamunara Industrial Estate, Bamunara,Durgapur-713212 (W.B)

Note : Erection & Commissioning Free of Cost, KCL will provide Fooding & Lodging for your 3 – 4 person free of cost.

2.0 **DELIVERY:**
Within 60 day from the date of P.O.

3.0 **TAX AND DUTIES:**
The above price is Exclusive of GST. 18% GST will be paid by us extra.

4.0 **PACKING:**
Packing & Forwarding charges inclusive in the above price.

5.0 **TRANSPORTATION:**
FOR to our DGP works. Materials should be delivered in our Plant at Bamunara, Durgapur, West Bengal.

6.0 **TRANSIT INSURANCE:**
Shall be arranged by you at your cost. Necessary despatch particulars shall be furnished to us well in advance.

7.0 **INSPECTION & TESTING:**
Value Cap shall offer for inspection to KCL as per the Inspection and Test Plan to be given by KCL. No HOLD points are envisaged during the execution of contract.

Final inspection shall be carried out by our Engineer/authorised inspection agency. You shall give us at least 07 days notice to depute our Engineer for Inspection. All TC/GC, Test Certificates must be enclosed with the inspection offer. You shall provide necessary arrangement and assistance for Inspection at your Works.

8.0 **PAYMENT TERMS:**
8.1 30% advance along with PO.
8.2 60% payment will be made against submission of Proforma Invoice before despatch after inspection and despatch clearance by KCL.
8.3 Balance 10% will be paid after successful commissioning.

9.0 **DESPATCH INSTRUCTIONS:**
All the equipment and components shall be dispatched to the following address:

Detailed delivery address	:	Kejriwal Castings Limited Bamunara Industrial Estate Bamunara Durgapur – 713 212 West Bengal
Contact Person	:	Mr. Suresh Gorre
Phone No.	:	08597289737.

10.0 **GUARANTEE AND WARRANTY:**
The equipment covered under this contract is guaranteed for satisfactory operation for a period of 18 months from the date of supply or 12 months from the date of commissioning whichever is earlier.

Ref: KCL\PO\DGP\0603\20-21
Date: 28-Sep-20

1.0 SCOPE OF SUPPLY & Technical Specification:

S.No	Item description	Make	Qty
1.	**DUST MONITOR**		
	24 X 7 Continuous Emission Monitoring System at Process Stacks (TUV with QAL 1 Certified) Certificate according to EN 15267-3, COMPLIANT WITH US EPA 40 CFR 60 PS1 and ASTM 6216 DIGITAL MODBUS interface according to VDI 4201-3, COMPATIBLE with Universal display and control unit D-ISC 100	DR0290	1 Set
2	**PCB CONNECTIVITY connecting 4 nos Dust Monitors**	DR0220	1 Set
2.1	LL102055PPN Logic Ladder STD-V2.03.00.0(C) IOT Cloud Connector for Europe & Asia Operation, Model v2.03.00.0 Network supported 2 x GPRS/LAN carrier:LTE cat1, serial interface 1xRS485, 1xRS232, IOS: None, Enclosure: IP 66, Power Supply:SMPS Industrial		1 Set
2.2	LL1015999PPN Envirologic IO Software Platform-Basic Plan, Supports upto 4 parameters The system is compliant with CPCB, NEW DELHI DIRECTIVES OF REMOTE DATA MONITORING BY THE INDUSTRIES with required features as per guidelines The data storage is available for 5 years and can easily be extended to 20 years if required on chargeable basis		1 Set
2.3	LL101916PPN SOFTWARE & IT service SPCB connectivity		1 Set
	OPTIONAL ACCESSORIES		
A	Fail Safe Shutter Unit This is required if the temperature of flue gas is 250 deg C or above		
B	Signal Cable		
C	Power Cable		
	LEAKAGE DETECTION and mechanical bag cleaning facilities		
Note			
1	All dust monitors will be connected with data logger with RS485		
2	Erection and Cable laying are in our scope		
3	KCL will provide UPS power supply to data logger		
4	KCL will provide Power supply to instruments		
5	KCL will provide either Internet LAN or 4G sim to data logger, monthly charges and software annual renewal at KCL scope		

11.0 **AFTER SALES SERVICE:**
You shall provide after sales service for any defect in materials/workmanship within the guarantee period and attend to the same free of cost at KCL Site.

12.0 **PERFORMANCE GUARANTEE:**
Performance Guarantee parameters for equipment shall be achieved as per the Technical Specification.

13.0 **SUPERVISIOIN OF ERECTION & COMMISSIONING:**
Supervision of Erection, Commissioning & Testing Free of Cost for 07 Days. You shall depute your Engineers(s) at KCL-Durgapur Site within 03 days on information from KCL.

14.0 **LIQUIDATED DAMAGES (LD):**

14.1 **FOR DELAY IN DELIVERY:**
In case of delay in delivery, for reasons attributable to supplier, Rhino will pay liquidated damages @ 0.5% of ex-works value of this contract, per week of delay, but not exceeding 5% of the ex- works value of the equipment. However, 05 days grace period may be allowed on the delivery period as a special case.

14.2 **FOR NON-FULFILMENT OF P.G.:**
The designated capacity of the equipment for treatment as per P.O. Specifications. Liquidated damages @ 1% of the contract value shall be recovered for every 1% shortfall in the designed capacity for treatment pouring subject to a maximum of 5% of the contract value. If the capacity of the equipment falls short of 95% of the designed capacity, the equipment will be modified to achieve rated capacity free of cost by Value Cap.

15.0 **DISPUTES & ARBITRATION:**
All disputes or difference whatsoever arising between us and yourselves in connection with the contract, which cannot be settled through mutual negotiations in good faith, either of us may give the other notice in writing of the existence of such question, dispute or difference. The same shall be settled in accordance with the provisions of Indian Arbitration Act. The arbitrator shall be a person qualified to be appointed as an arbitrator, under the provision. The award of the arbitrator shall be final and binding on the parties and the persons claiming under them. Work under the contract shall continue, so far as may be reasonably practical, during the arbitration proceedings, and no payments which may or shall become due shall be withheld on account of such proceedings. The venue for arbitration shall be Kolkata.

16.0 **DEVIATION:**
Any deviation of the above terms and conditions shall not be valid unless expressly made in writing.

Please sign and return the duplicate copy of this P.O. as a token of your acceptance of the above terms & conditions.

From: SABUJ SOLAR [mailto:sabujsolar.ind@gmail.com]
Sent: 20 November 2020 17:19
To: Pravin Agarwal <pravin@kejriwalcastings.com>
Cc: Siddharth Sourabh <siddharth.sourabh1@tatapower.com>; Sanyal Kaushik <kaushik.sanyal@tatapower.com>; Sandeep Kejriwal <sandeep@kejriwalcastings.com>
Subject: Re: SUMMARIZED TERM SHEET FOR PROPOSED POWER PURCHASE AGREEMENT WITH THE TATA POWER RENEWABLE ENERGY LTD.

SSU-Q/2020-21/RTOP/MNR/239/PPA dated 20.11.2020

Mr. Pravin Agarwal,

EA to MD

Kejriwal Castings Ltd.,
Chatterjee International,
33A, Chowringhee Road,

Kolkata 700071.

Dear Sir,

In continuation of our previous communications regarding proposal for solar power system under PPA model for your Durgapur unit, we are pleased to inform you that the proposal has been finalized, broad parameters being as under:

1. Capacity of Solar Power System : **1300.00 KWp approx.**
2. Tariff Rate per Unit of power generated : **Rs.3.80p.**
3. Escalation per year : **Nil.**
4. Tenure of PPA : **25 years.**
5. Location of site: **Durgapur, West Bengal.**

We would request your early confirmation to the above, based on which approval of Board shall have to be obtained before signing of contract followed by execution of the same at an early date.

Please also confirm that the draft PPA and BG formats have been approved from your end.

Thanking you,

for SABUJ SOLAR UDYOG PVT.LTD.

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996, 9831438482

cc:

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.1

On Thu, 19 Nov 2020 at 11:36, SABUJ SOLAR <sabujsolar.ind@gmail.com> wrote:

SSU-Q/2020-21/RTOP/MNR/239/PPA dated 18.11.2020

Mr. Pravin Agarwal,

EA to MD

Kejriwal Castings Ltd.
Chatterjee International,
33A, Chowringhee Road,

Kolkata 700071.

Dear Sir,

In continuation of our previous communications regarding proposal for solar power system under PPA model for your Durgapur unit, we are pleased to inform you that the proposal has been finalized, broad parameters being as under:

1. Capacity of Solar Power System : **1215.30KWp** (Array Layout Drawing attached).
2. Tariff Rate per Unit of power generated : **Rs.3.80p.**
3. Escalation per year : **Nil.**
4. Tenure of PPA : **25 years.**
5. Location of site: **Durgapur, West Bengal.**

We would request your early confirmation and a fresh LOI of the above, based on which approval of Board shall have to be obtained before signing of contract followed by execution of the same at an early date.

Draft PPA and BG formats sent to you have been earlier approved from your end.

Thanking you,

for SABUJ SOLAR UDYOG PVT.LTD.

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996, 9831438482

cc:

capacity shall reduce.

Decrease in tenure of PPA from 25 to 20 years shall obviously lead to increase in tariff. However, we reiterate that after end of tenure, ownership shall be handed over to you at token price of Re.1.

Net metering system is an agreement, both for Capex and Opex cases, between Discom customer and Discom (WBSEDCL) unrelated to contract between solar system supplier and customer.

For net metering, consumer has to give intimation to Discom for installing on-grid rooftop solar power system. After installation and commissioning of system, formal application for net meter to be submitted along with technical documents and a standard agreement. Thereafter dual meter shall get installed.

The entire methodology is given lucidly in WBSEDCL website, documents also being enclosed for your easy reference.

B) Draft copies of the Power Purchase Agreement is enclosed for your perusal. For clarifications, kindly give us a call.

Looking forward to fast closure of deal, *specially in face of stiff upward rise of solar module prices since one week or so.*

Warm regards,

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996 / 9831438482

Cc:

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.

On Mon, 2 Nov 2020 at 18:19, Pravin Agarwal <pravin@kejriwalcastings.com> wrote:

Dear Sir,

We have gone through your term sheet and have concluded with following points

1) We request you to reduce the rate to 3.55 per unit
2) Please bring down the contract term to 20 years in place of 25 years.

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.

On Fri, 6 Nov 2020 at 18:29, Pravin Agarwal <pravin@kejriwalcastings.com> wrote:

> Dear Sir,
>
> We are ok with the rate of 3.80 and we want to go with the module having the capacity of 445wp.
>
> We are ok with the draft agreement. Please proceed
>
> Thanks
>
> Pravin Agarwal
>
> EA To Director
>
> **Description: Description: cid:image001.jpg@01CDD935.10B1E340**
>
> Kejriwal Group
>
> **From:** SABUJ SOLAR [mailto:sabujsolar.ind@gmail.com]
> **Sent:** 03 November 2020 13:59
> **To:** Pravin Agarwal <pravin@kejriwalcastings.com>
> **Cc:** Siddharth Sourabh <siddharth.sourabh1@tatapower.com>; Sanyal Kaushik <kaushik.sanyal@tatapower.com>; Sandeep Kejriwal <sandeep@kejriwalcastings.com>
> **Subject:** Re: SUMMARIZED TERM SHEET FOR PROPOSED POWER PURCHASE AGREEMENT WITH THE TATA POWER RENEWABLE ENERGY LTD.
>
> Dear Mr. Agarwal,
>
> A) We have gone thru' your mail and discussed it point by point. As it stands, it is extremely difficult to further reduce the tariff from Rs.3.80 which was a result of protracted efforts as Mr Sanyal had assured special rates for Durgapur to Mr Kejriwal on the assumption of 3MW system capacity, whereas space available barely allows 1MW capacity.
>
> Further, our offer is based on higher capacity (445Wp) imported modules *prices of which have now already increased by 20%+* over last week. Alternately we can go for 330Wp-335Wp modules in which case total

and accessories.

While major clauses of the proposed agreement have been incorporated in the Term Sheet, the proposal is subject to final approval by the commercial risk committee of the board.

Chamrail Unit: Protracted technical discussions have taken place at various levels of engineering section based on inputs from senior engineer who visited the plant. Main constraints to MW level Solar Power System considered as follows:

1. Excessive heat from furnaces and comparatively low height of sheds liable to cause heating of modules leading to rapid degradation.

2. Dust from the furnace related activities shall heavily pollute modules on top of furnace shed.

3. Adjacent sheds, specifically shot-blasting and machining, are strongly recommended for structural testing as they are additionally burdened with EOT Cranes and loads. Impact of further module+structure load of approx. 20Kg / sq meter needs to be factored. Availability of structural drawings might have helped assessment to some extent.

Non-utilisation of the above sheds shall limit solar power system capacity to maximum 350-400 KWp suitable for your LT consumption only. TATA Power Solar generally goes for Capex model only for such capacities and shall be pleased to proceed if you so decide.

Hope you shall find the above proper and give us the go ahead for next action towards early closure of the same.

Thanking you,

for SABUJ SOLAR UDYOG PVT.LTD.

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996, 9831438482

cc:

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.

3) After 20 years the asset will automatically transferred to us

4) The net metering system is not mention anywhere in the term sheet. Can you please elaborate what will be the process to have net metering system in our premises. As on Sunday we may not use the generation and the same should be transferred to the grid.

Request you to kindly clear the above points and send us the draft agreement for further process.

Thanks

Pravin Agarwal

EA To Director

Description: Description: cid:image001.jpg@01CDD935.10B1E340

Kejriwal Group

From: SABUJ SOLAR [mailto:sabujsolar.ind@gmail.com]
Sent: 16 October 2020 11:57
To: Pravin Agarwal <pravin@kejriwalcastings.com>
Cc: Siddharth Sourabh <siddharth.sourabh1@tatapower.com>; Sanyal Kaushik <kaushik.sanyal@tatapower.com>
Subject: SUMMARIZED TERM SHEET FOR PROPOSED POWER PURCHASE AGREEMENT WITH THE TATA POWER RENEWABLE ENERGY LTD.

SSU-Q/2020-21/RTOP/MNR/239/PPA dated 15.10.2020

Mr. Sandeep Kejriwal,

MANAGING DIRECTOR

Kejriwal Castings Ltd.
Chatterjee International,
33A, Chowringhee Road,

Kolkata 700071.

Dear Sir,

In continuation of our previous communications vis-a-vis proposal for solar power systems, we have pleasure in submitting outcome of fresh studies of the two units as follows:

Durgapur Unit: As decided, we have been working on the **Power Purchase Agreement** for **1000 KWp** for your Durgapur unit, and are pleased to submit our summarized Term Sheet of Power Purchase Agreement for your study and scrutiny prior to agreement being finalized to the mutual satisfaction of detailed terms and conditions.

The above capacity is subject to minor alterations on freezing of final design which is under process. Further, tariff proposed is subject to change upon levy of fresh Import Duty, if any, on components

ANNEXURE-7
Monitoring Lab Report

TEST REPORT

SAMPLE DRAWN BY US:

Sample ID. JMB/BWN/2024/AA(M)/0610 **Date : 05.07.2024** **Page 1 of 1**

Issued to	: M/s. Kejriwal Casting Limited
	: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.
Description of Sample	: Ambient Air
Sample Location	: Near Main Gate
Date & Time of sampling	: 01.07.2024 at 10:00 AM to 6:00 PM
Analysis completed on	: 04.07.2024

Environmental Condition:

Barometric Pressure (mmHg) (Average)	: 748
Ambient Temperature (°C) (Average)	: 32
Relative Humidity (%) (Average)	: 54
Weather	: Cloudy

TESTFINDINGS:

Sl No.	Test parameters	Test Method	Unit	Results	NORMS AS NNAQS,2009
1	Respirable Suspended Particulate Matter or PM_{10}	IS 5182(Part 23): 2006 (RA 2017)	$\mu g/m^3$	64.0	100
2	Sulphur Dioxide (SO_2)	IS 5182 (Part-2):2001 (RA 2017)	$\mu g/m^3$	4.2	80
3	Nitrogen Dioxide (NO_2)	IS 5182 (Part-6):2006 (RA 2017)	$\mu g/m^3$	27.6	80

...END OF TEST REPORT...

For JM Biotech Pvt. Ltd.

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN, PIN-713423

Authorized Signatory

Name: Mr. Tanmoy Sengupta

(Designation: Quality Manager)

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

Format No. JMB/LAB/FM/53F

05/07/2024

Sample ID.:JMB/2024/0618

Name of Company: M/s. Kejriwal Casting Limited

Address: **Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.**

Sample Description: Stack Air **Date & Time of sampling: 01/07/2024 at 9:15 am to 10:15 am**

Equipment used: JMB/AP/04 **Analysis Completed on: 04/07/2024**

A **General Information:**

1 Stack connected to: Bitumin Coating
2 Shape of Stack : Circular
3 Material of construction of stack: Ms.
4 Whether stack is provided with permanent platform & ladder: Yes
5 Emission due to : Process Activity
6 Capacity:----------

B **Physical Characteristics:**

1 Heights of the stack (a) from Ground Level: 30.M
2 Diameter of the stack (a) at bottom : -------
3 Height of the sampling point from Ground Level:-----
4 Diameter of the stack at sampling point : 0.55M
5 Area of Stack/duct : 0.2377 M^2.

C **Fuel Information**

1. Fuel Used: ---------- 2.Fuel Consumption: ----------

Barometric Pressure (Pbar) mmHg: 748

D **Results of sampling and analysis of gaseous emission:**

Sl. No.	Test Parameters	Test Method	Unit	Results
1	Temperature of emission	IS 11255 (Part III): 2008	°C	52
2	Velocity of Gas in duct	IS 11255 (Part III): 2008	m/sec	6.19
3	Quantity of Gas flow	IS 11255 (Part III): 2008	Nm^3 /hr	4632
4	Carbon dioxide	IS 13270 (ORSAT): 1992	% (v/v)	0.4
5	Concentration of Oxygen	IS 13270 (ORSAT): 1992	% (v/v)	19.4
6	Concentration of Particulate Matters	IS 11255 (Part-1): 1985	Mg/Nm^3	13.2
Pollution Control Device attached with the stack: Hepa filter				

.....End of Test Report.....

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN

For, JM Biotech (P) Ltd

(Authorized Signatory)
Mr. Tanmoy Sengupta
Designation: Quality Manager

JM Biotech (Pvt.) Ltd.
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
Recognised by WBPCB
AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

Format No. JMB/LAB/FM/53F
05/07/2024

Sample ID.:JMB/2024/0619
Name of Company: M/s. Kejriwal Casting Limited
Address: **Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.**
Sample Description: Stack Air **Date & Time of sampling: 01/07/2024 at 10:30 am to 11:30 am**
Equipment used: JMB/AP/04 **Analysis Completed on: 04/07/2024**

A **General Information:**
1 Stack connected to: Zinc Coating
2 Shape of Stack : Circular
3 Material of construction of stack: Ms.
4 Whether stack is provided with permanent platform & ladder: Yes
5 Emission due to : Process Activity
6 Capacity:----------

B **Physical Characteristics:**
1 Heights of the stack (a) from Ground Level: 30.M
2 Diameter of the stack (a) at bottom : -------
3 Height of the sampling point from Ground Level:-----
4 Diameter of the stack at sampling point : 0.97M
5 Area of Stack/duct : 0.739 M^2.

C **Fuel Information**
1. Fuel Used: ---------- 2.Fuel Consumption: ----------

Barometric Pressure (Pbar) mmHg: 748

D **Results of sampling and analysis of gaseous emission:**

Sl. No.	Test Parameters	Test Method	Unit	Results
1	Temperature of emission	IS 11255 (Part III): 2008	°C	54
2	Velocity of Gas in duct	IS 11255 (Part III): 2008	m/sec	5.62
3	Quantity of Gas flow	IS 11255 (Part III): 2008	Nm^3 /hr	12995
4	Carbon dioxide	IS 13270 (ORSAT): 1992	% (v/v)	0.2
5	Concentration of Oxygen	IS 13270 (ORSAT): 1992	% (v/v)	19.4
6	Concentration of Particulate Matters	IS 11255 (Part-1): 1985	Mg/Nm^3	11.6
Pollution Control Device attached with the stack: Bag filter				

.....End of Test Report.....

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN PIN-713423

For, JM Biotech (P) Ltd

(Authorized Signatory)
Mr. Tanmoy Sengupta
Designation: Quality Manager

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

Format No. JMB/LAB/FM/53F

Sample ID.:JMB/2024/0620 05/07/2024

Name of Company: M/s. Kejriwal Casting Limited

Address: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.

Sample Description: Stack Air Date & Time of sampling: 01/07/2024 at 11:40 am to 12:40 pm

Equipment used: JMB/AP/04 Analysis Completed on: 04/07/2024

A **General Information:**

1 Stack connected to: Annealing Furnace
2 Shape of Stack : Circular
3 Material of construction of stack: Ms.
4 Whether stack is provided with permanent platform & ladder: Yes
5 Emission due to : Process Activity
6 Capacity:----------

B **Physical Characteristics:**

1 Heights of the stack (a) from Ground Level: 30.M
2 Diameter of the stack (a) at bottom : -------
3 Height of the sampling point from Ground Level:-----
4 Diameter of the stack at sampling point : 0.91M
5 Area of Stack/duct : 0.6506 M^2.

C **Fuel Information**

1. Fuel Used: ---------- 2.Fuel Consumption: ----------

Barometric Pressure (Pbar) mmHg: 748

D **Results of sampling and analysis of gaseous emission:**

Sl. No.	Test Parameters	Test Method	Unit	Results
1	Temperature of emission	IS 11255 (Part III): 2008	°C	90
2	Velocity of Gas in duct	IS 11255 (Part III): 2008	m/sec	7.45
3	Quantity of Gas flow	IS 11255 (Part III): 2008	Nm^3 /hr	14100
4	Carbon dioxide	IS 13270 (ORSAT): 1992	% (v/v)	0.4
5	Concentration of Oxygen	IS 13270 (ORSAT): 1992	% (v/v)	19.2
6	Concentration of Particulate Matters	IS 11255 (Part-1): 1985	Mg/Nm^3	6.8
Pollution Control Device attached with the stack: Nil				

.....End of Test Report.....

JM BIOTECH (PVT.) LTD. W.B. INDIA

For, JM Biotech (P) Ltd

(Authorized Signatory)
Mr. Tanmoy Sengupta
Designation: Quality Manager

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

Format No. JMB/LAB/FM/53F

Sample ID.:JMB/2024/0621 05/07/2024

Name of Company: M/s. Kejriwal Casting Limited

Address: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.

Sample Description: Stack Air **Date & Time of sampling: 01/07/2024 at 12:50 pm to 1:50 pm**

Equipment used: JMB/AP/04 **Analysis Completed on: 04/07/2024**

A **General Information:**

1 Stack connected to: Magnesium Converter
2 Shape of Stack : Circular
3 Material of construction of stack: Ms.
4 Whether stack is provided with permanent platform & ladder: Yes
5 Emission due to : Process Activity
6 Capacity:----------

B **Physical Characteristics:**

1 Heights of the stack (a) from Ground Level: 30.M
2 Diameter of the stack (a) at bottom : -------
3 Height of the sampling point from Ground Level:-----
4 Diameter of the stack at sampling point : 0.97M
5 Area of Stack/duct : 0.7393 M^2.

C **Fuel Information**

1. Fuel Used: ---------- 2.Fuel Consumption: ----------

Barometric Pressure (Pbar) mmHg: 747

D **Results of sampling and analysis of gaseous emission:**

Sl. No.	Test Parameters	Test Method	Unit	Results
1	Temperature of emission	IS 11255 (Part III): 2008	°C	52
2	Velocity of Gas in duct	IS 11255 (Part III): 2008	m/sec	6.11
3	Quantity of Gas flow	IS 11255 (Part III): 2008	Nm^3 /hr	14202
4	Carbon dioxide	IS 13270 (ORSAT): 1992	% (v/v)	0.6
5	Concentration of Oxygen	IS 13270 (ORSAT): 1992	% (v/v)	18.8
6	Concentration of Particulate Matters	IS 11255 (Part-1): 1985	Mg/Nm^3	19.2
Pollution Control Device attached with the stack: Bag Filter				

.....End of Test Report.....

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN

For, JM Biotech (P) Ltd

(Authorized Signatory)
Mr. Tanmoy Sengupta
Designation: Quality Manager

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

NO. JMB/BWN/2024/NL(M)/0612 to 0617 **Date: 04.07.2024** **Page 1 of 1**

Issued to : M/s. Kejriwal Casting Limited
: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.
Description of Sample : Noise Level
Sample Drawn on : 01.07.2024
Analysis Completed on : 04.07.2024

TEST FINDINGS:

SL. NO.	LOCATION	TIME DURATION	SOUND PARAMETERS (dBA)			Permissible noise Exposure for Industrial workers as per the Noise pollution (Regulation and control)Rules, 2000
			Lmax	Lmin	Leq	
1.	Security Room	3.10 – 3.15 PM	77.5	79.4	78.2	90 dB(A)
2.	Zinc Coating Machine Are	3.20 – 3.25 PM	84.6	86.5	85.9	
3	Finishing line Area	3.30 – 3.35 PM	85.7	87.4	86.5	
4.	Store Area	3.40 – 3.45 PM	70.9	73.6	72.8	
5.	CCM Area	3.50 – 3.55 PM	87.1	89.4	88.8	
6.	Annealing Furnace Area	4.00 – 4.05 PM	86.8	88.2	87.6	

...END OF TEST REPORT...

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN, PIN-713423

For J.M. Biotech (P) Ltd.

Authorized Signatory
Mr. Tanmoy Sengupta
(Designation: Quality Manager)

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

ISO 9001:2015 ISO 14001:2015

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

Sample Id : JMB/BWN/2024/DW(D)/0609 Dated: 05.07.2024

Sample drawn by lab representative:

TEST REPORT

Name of Customer	: Kejriwal Casting Limited
Address	: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.
Description of Sample	: Drinking Water
Collection Source	: Filter Outlet
Name of Sampler	: Mr. Ramkrishna Mallick
Sample Drawn on	: 01.07.2024
Analysis completed on	: 05.07.2024
Method of Sampling	: APHA 24th Edition, 1060 B
Mode of Sampling	: Grab

A. ORGANOLEPTIC & PHYSICAL PARAMETERS :

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms as per IS 10500:2012 for Drinking water	
					AL(Max.)	PL(Max.)
1	Colour	APHA 24th Edn, 2120B	Hazen	1	5	15
2	Odour	APHA24th Edn, 2150B	--	Agreeable	Agreeable	Agreeable
3	pH at 25°C	APHA 24th Edn, 4500 H^+ B	--	6.70	6.5 - 8.5	No Relaxation
4	Turbidity	APHA 24th Edn, 2130-B	NTU	<1	1.0	5.0
5	Total Dissolved Solids	APHA 24th Edn, 2540-C	mg/l	115.0	500	2000

B. GENERAL PARAMETERS :

6	Aluminium as Al	APHA 24th Edn, 3113B	mg/l	<0.03	0.03	0.2
7	Calcium as Ca	APHA 24th Edn, 3500- Ca B	mg/l	20	75	200
8	Chloride as Cl	APHA 24th Edn, 4500 Cl-B	mg/l	12.9	250	1000
9	Copper as Cu	APHA 24th Edn, 3111-B	mg/l	<0.05	0.05	1.5
10	Fluoride as F	APHA 24th Edn, 4500- F C	mg/l	<0.1	1.0	1.5
11	Residual Free Chlorine	IS 3025 (Part 26): 1986, RA 2019	mg/l	<0.1	0.20	1
12	Iron as Fe	APHA 24th Edn, 3500- Fe B	mg/l	<0.1	1.0	No Relaxation
13	Magnesium as Mg	APHA 24th Edn, 3500- Mg B	mg/l	3.89	30	100
14	Manganese as Mn	APHA 24th Edn, 3111B	mg/l	<0.05	0.1	0.3

JM BIOTECH (PVT.) LTD. W.B. INDIA

JM Biotech (Pvt.) Ltd.
ANALYTICAL CONSULTING & TECHNICAL CHEMISTS
Recognised by WBPCB

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

Sample Id : JMB/BWN/2024/DW(D)/0609

Dated: 05.07.2024

TEST REPORT

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms as per IS 10500:2012	
					AL(Max.)	PL(Max.)
15	Nitrate as NO_3	APHA 24th Edn, 4500-NO_3 B	mg/l	0.24	45	No relaxation
16	Selenium as Se	APHA 24th Edn, 3114C	mg/l	<0.01	0.01	No relaxation
17	Sulphate as SO_4	APHA 24th Edn, 4500- SO_4^{2-} E	mg/l	8.68	200	400
18	Total Alkalinity as $CaCO_3$	APHA 24th Edn, 2320-B	mg/l	69.3	200	600
19	Total Hardness as $CaCO_3$	APHA 24th Edn, 2340-C	mg/l	66.0	200	600
20	Zinc as Zn	APHA 24th Edn, 3111B	mg/l	<0.05	5	15

C. TOXIC SUBTANCES :

21	Cadmium as Cd	APHA 24th Edn, 3113B	mg/l	<0.003	0.003	No relaxation
22	Lead as Pb	APHA 24th Edn, 3113B	mg/l	<0.01	0.01	No relaxation
23	Mercury as Hg	APHA 24th Edn, 3112B	mg/l	<0.001	0.001	No relaxation
24	Arsenic as As	APHA 24th Edn, 3114B	mg/l	<0.005	0.01	No relaxation
25	Total Chromium as Cr	APHA 24th Edn, 3111B	mg/l	<0.05	0.05	No relaxation

Note : 1. AL - Acceptable Limit. 2. PL - Permissible Limit.

Remarks : Satisfactory for the above tested parameters.

...END OF TEST REPORT...

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN, PIN-713423

For J.M. Biotech (P) Ltd.

T. Sengupta

(Authorised Signatory)
Name: Mr. Tanmoy Sengupta
Designation: Quality Manager

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

ISO 9001:2015 ISO 14001:2015

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

Format No. JMB/LAB/FM/46E

Sample ID.:JMB/2024/0623 05/07/2024

Name of Company: M/s. Kejriwal Casting Limited

Address: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.

Sample Description: Flue gas **Date & Time of sampling: 01/07/2024 at 4:10 pm to 5:10 pm**

Equipment used: JMB/AP/04 **Analysis Completed on: 04/07/2024**

A General Information:

1 Stack connected to: DG Set
2 Shape of Stack : Circular
3 Material of construction of stack: MS
4 Whether stack is provided with permanent platform & ladder: Yes
5 Emission due to : Burning of Diesel
6 Generator Capacity: 400 KVA.

B Physical Characteristics:

1 Heights of the stack (a) from Ground Level: 3.5M
2 Diameter of the stack (a) at bottom : -------
3 Height of the sampling point from Ground Level:---------
4 Diameter of the stack at sampling point : 0.15M
5 Area of Stack/duct : 0.0177 M^2

C Fuel Information

1 Fuel Used : Diesel Fuel Consumption: 42 L/hr

Barometric Pressure (Pbar) mmHg: 748

D Results of sampling and analysis of gaseous emission:

Sl. No.	Test Parameters	Test Method	Unit	Results
1	Temperature of emission	IS 11255 (Part III): 2008	°C	112
2	Velocity of Gas in duct	IS 11255 (Part III): 2008	m/sec	10.22
3	Quantity of Gas flow	IS 11255 (Part III): 2008	Nm^3 /hr	466.0
4	Sulphurs dioxide	IS 11255 (Part II): 1985 RA 2003	Mg/Nm3	35.46
5	Nitrogen dioxide	IS 11255 (Part-VII): 1985 RA 2003	Mg/Nm3	59.30
6	Carbon monoxide	IS 13270 (ORSAT): 1992	% (v/v)	<0.4
7	Carbon dioxide	IS 13270 (ORSAT): 1992	% (v/v)	6.6
8	Concentration of Oxygen	IS 13270 (ORSAT): 1992	% (v/v)	12.2
9	Particulate Matters	IS 11255 (Part-1): 1985	Mg/Nm3	24.6
Pollution Control Device attached with the stack: Nil				

....End of Test report....

For, JM Biotech (P) Ltd.

Authorized Signatory
Name: Mr. Tanmoy Sengupta
(Designation: Quality Manager)

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN, PIN-713423

JM Biotech (Pvt.) Ltd.

ANALYTICAL CONSULTING & TECHNICAL CHEMISTS

Recognised by WBPCB

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

TEST REPORT

Format No.:JMB/LAB/FM/46B

Customer Name:	M/s. Kejriwal Casting Limited		
Customer Address :	Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212	**Drawn/ Submitted:**	Sample Drawn By us
Sample Id:	JMB/BWN/2024/EW(D)/0624	**Date of Sample Drawn:**	01/07/2024
Sample Description:	Effluent Water	**Date of Testing :**	01/07/2024
Sample Quantity	1 LTR	**Date of Reporting:**	06/07/2024
Sample Location	ETP Outlet	**Environmental Condition:**	**Temperature** : 27.5°C

TEST RESULTS

Sl No	Test Parameters	Test Method	Test Results	Unit	Limit as per EPA (MOEF) for effluent water discharged into inland surface water (max)
1.	pH at 25^{0}C	APHA 24th Edn. 4500H$^+$B:2017	8.8	-	5.5-9.0(Max)
2.	Total Suspended Solids	APHA 24th Edn. 2017. 2540 D	53.7	mg/L	100 mg/L (Max)
3.	Biochemical Oxygen Demands at 27^{0}C for 3 days	IS 3025 (Part-44):1993 (RA 2003)	17.0	mg/L	30 mg/L (Max)
4.	Chemical Oxygen Demand	IS 3025 (Part-58):2006	48.0	mg/L	250 mg/L (Max)
5.	Oil & Grease	APHA 24thEdition, 2017, 5520 B	<2	mg/L	10 mg/L (Max)

Remarks: Satisfactory for the above tested parameters.

**********End of Test Report **********

For, JM Biotech Pvt. Ltd.

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN, PIN-713423

Authorised Signature

Name: Mr. Tanmoy Sengupta

Designation: Q.M.

TEST REPORT

SAMPLE DRAWN BY US:

Sample ID. JMB/BWN/2024/FA(M)/0611 **Date : 05.07.2024** **Page 1 of 1**

Issued to	: M/s. Kejriwal Casting Limited
	: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.
Description of Sample	: Fugitive Air
Sample Location	: Finishing line area
Date & Time of sampling	: 01.07.2024 at 10:00 AM to 06:00 PM
Analysis completed on	: 04.07.2024

Environmental Condition:

Barometric Pressure (mmHg) (Average)	: 748
Ambient Temperature (°C) (Average)	: 32
Relative Humidity (%) (Average)	: 52
Weather	: Cloudy

TESTFINDINGS:

Sl No.	Test parameters	Test Method	Unit	Results
1	Total Suspended Particulate Matter (TSPM)	IS 5182(Part 23): 2006 (RA 2017)	$\mu g/m^3$	880.0
2	Sulphur dioxide as SO_2	IS 5182 (Part-2):2001 (RA 2017)	$\mu g/m^3$	4.6
3	Nitrogen dioxide as NO_2	IS 5182 (Part-6):2006 (RA 2017)	$\mu g/m^3$	32.40

...END OF TEST REPORT...

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN, PIN-713423

For JM Biotech Pvt. Ltd.

Authorized Signatory
Name: Mr. Tanmoy Sengupta
(Designation: Quality Manager)

TEST REPORT

Format No. JMB/LAB/FM/53F

05/07/2024

Sample ID.:JMB/2024/0622

Name of Company: M/s. Kejriwal Casting Limited

Address: **Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.**

Sample Description: Stack Air **Date & Time of sampling: 01/07/2024 at 3:00 pm to 4:00 pm**

Equipment used: JMB/AP/04 **Analysis Completed on: 04/07/2024**

A General Information:

1 Stack connected to: 4 Nos. Induction Furnace (attached with a common stack)
2 Shape of Stack : Circular
3 Material of construction of stack: Ms.
4 Whether stack is provided with permanent platform & ladder: Yes
5 Emission due to : Melting of Allied materials
6 Capacity: 4mt x 4 No.

B **Physical Characteristics**:

1 Heights of the stack (a) from Ground Level: 30.M
2 Diameter of the stack (a) at bottom : -------
3 Height of the sampling point from Ground Level:-----
4 Diameter of the stack at sampling point : 0.84M
5 Area of Stack/duct : 0.5544 M^2.

C **Fuel Information**

1. Fuel Used: Electricity 2.Fuel Consumption: ----------

Barometric Pressure (Pbar) mmHg: 748

D Results of sampling and analysis of gaseous emission:

Sl. No.	Test Parameters	Test Method	Unit	Results
1	Temperature of emission	IS 11255 (Part III): 2008	°C	59
2	Velocity of Gas in duct	IS 11255 (Part III): 2008	m/sec	7.08
3	Quantity of Gas flow	IS 11255 (Part III): 2008	Nm^3 /hr	12101
4	Carbon dioxide	IS 13270 (ORSAT): 1992	% (v/v)	0.4
5	Concentration of Oxygen	IS 13270 (ORSAT): 1992	% (v/v)	19.2
6	Concentration of Particulate Matters	IS 11255 (Part-1): 1985	Mg/Nm^3	18.8
Pollution Control Device attached with the stack: Bag Filter				

.....End of Test Report.....

JM BIOTECH (PVT.) LTD. * W.B. INDIA * PURBA BARDHAMAN, PIN-713423

For, JM Biotech (P) Ltd

(Authorized Signatory)
Mr. Tanmoy Sengupta
Designation: Quality Manager

TEST REPORT

NO. JMB/BWN/2024/IL(M)/0625 to 0627 **Date: 04.07.2024** **Page 1 of 1**

Issued to : M/s. Kejriwal Casting Limited
: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.
Description of Sample : Illumination Level (Lux)
Sample Drawn on : 01.07.2024
Analysis Completed on : 04.07.2024

Weather : Cloudy

TEST FINDINGS:

SL. NO.	Location	Method of Testing	Day Time	Illumination Level (Lux)	Night Time	Illumination Level (Lux)	Required Illumination as per WB Factory ACT 1948
1.	Finishing line area	Instrument Method	12.50–1.00 PM	410	10.10-10.20 PM	350	Not Less Than 65 LUX
2.	CCM Area		1.10-1.20 PM	195	10.30-10.40 PM	165	
3	Pipe Yard Area		NA	NA	10.50-11.00 PM	880	

...END OF TEST REPORT...

JM BIOTECH (PVT.) LTD. W.B. INDIA PURBA BARDHAMAN

For J.M. Biotech (P) Ltd.

Authorized Signatory
Mr. Tanmoy Sengupta
(Designation: Quality Manager)

JM Biotech (Pvt.) Ltd.

(Laboratory)

Testing Research & Analytical Consultants

AN ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

Sample Id : JMB/BWN/2024/DW(D)/0609 Dated: 05.07.2024

Sample drawn by lab representative: **TEST REPORT** Page - 1 of 1

Name of Customer	: Kejriwal Casting Limited
Address	: Bamunara Industrial Estate, Bamunara, Durgapur, Pin-713212.
Description of Sample	: Drinking Water
Collection Source	: Filter Outlet
Name of Sampler	: Ramkrishna Mallick
Sample Drawn on	: 01.07.2024
Analysis completed on	: 05.07.2024
Method of Sampling	: IS 1622 : 1981 (Reaffirmed 2019)
Mode of Sampling	: Grab

A. MICROBIOLOGICAL PARAMETERS :

Sl. No.	Test Parameters	Test Method	Unit	Results	Norms as per IS 10500 : 2012
1	Total Coliform	IS 1622:1981 RA 1996	Cfu/100ml	Absent	Not Detectable
2	E. coli	IS 1622:1981 RA 2009	Cfu/100ml	Absent	Not Detectable

Remarks : Satisfactory for the above tested parameter.

...END OF TEST REPORT...

Reviewed by :- R. Bose

For J.M. Biotech (P) Ltd.

Mrs. Tamighna Mukherjee
(Authorised Signatory)
Designation: Microbiologist

J.M. BIOTECH PVT. LTD. Kolkata

ANNEXURE-8

Purchase Order
(Electricity Bill Invoice)

From: SABUJ SOLAR [mailto:sabujsolar.ind@gmail.com]
Sent: 20 November 2020 17:19
To: Pravin Agarwal <pravin@kejriwalcastings.com>
Cc: Siddharth Sourabh <siddharth.sourabh1@tatapower.com>; Sanyal Kaushik <kaushik.sanyal@tatapower.com>; Sandeep Kejriwal <sandeep@kejriwalcastings.com>
Subject: Re: SUMMARIZED TERM SHEET FOR PROPOSED POWER PURCHASE AGREEMENT WITH THE TATA POWER RENEWABLE ENERGY LTD.

SSU-Q/2020-21/RTOP/MNR/239/PPA dated 20.11.2020

Mr. Pravin Agarwal,

EA to MD

Kejriwal Castings Ltd.,
Chatterjee International,
33A, Chowringhee Road,

Kolkata 700071.

Dear Sir,

In continuation of our previous communications regarding proposal for solar power system under PPA model for your Durgapur unit, we are pleased to inform you that the proposal has been finalized, broad parameters being as under:

1. Capacity of Solar Power System : **1300.00 KWp approx.**
2. Tariff Rate per Unit of power generated : **Rs.3.80p.**
3. Escalation per year : **Nil.**
4. Tenure of PPA : **25 years.**
5. Location of site: **Durgapur, West Bengal.**

We would request your early confirmation to the above, based on which approval of Board shall have to be obtained before signing of contract followed by execution of the same at an early date.

Please also confirm that the draft PPA and BG formats have been approved from your end.

Thanking you,

for SABUJ SOLAR UDYOG PVT.LTD.

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996, 9831438482

cc:

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.1

On Thu, 19 Nov 2020 at 11:36, SABUJ SOLAR <sabujsolar.ind@gmail.com> wrote:

SSU-Q/2020-21/RTOP/MNR/239/PPA dated 18.11.2020

Mr. Pravin Agarwal,

EA to MD

Kejriwal Castings Ltd.
Chatterjee International,
33A, Chowringhee Road,

Kolkata 700071.

Dear Sir,

In continuation of our previous communications regarding proposal for solar power system under PPA model for your Durgapur unit, we are pleased to inform you that the proposal has been finalized, broad parameters being as under:

1. Capacity of Solar Power System : **1215.30KWp** (Array Layout Drawing attached).
2. Tariff Rate per Unit of power generated : **Rs.3.80p.**
3. Escalation per year : **Nil.**
4. Tenure of PPA : **25 years.**
5. Location of site: **Durgapur, West Bengal.**

We would request your early confirmation and a fresh LOI of the above, based on which approval of Board shall have to be obtained before signing of contract followed by execution of the same at an early date.

Draft PPA and BG formats sent to you have been earlier approved from your end.

Thanking you,

for SABUJ SOLAR UDYOG PVT.LTD.

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996, 9831438482

cc:

capacity shall reduce.

Decrease in tenure of PPA from 25 to 20 years shall obviously lead to increase in tariff. However, we reiterate that after end of tenure, ownership shall be handed over to you at token price of Re.1.

Net metering system is an agreement, both for Capex and Opex cases, between Discom customer and Discom (WBSEDCL) unrelated to contract between solar system supplier and customer.

For net metering, consumer has to give intimation to Discom for installing on-grid rooftop solar power system. After installation and commissioning of system, formal application for net meter to be submitted along with technical documents and a standard agreement. Thereafter dual meter shall get installed.

The entire methodology is given lucidly in WBSEDCL website, documents also being enclosed for your easy reference.

B) Draft copies of the Power Purchase Agreement is enclosed for your perusal. For clarifications, kindly give us a call.

Looking forward to fast closure of deal, *specially in face of stiff upward rise of solar module prices since one week or so.*

Warm regards,

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996 / 9831438482

Cc:

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.

On Mon, 2 Nov 2020 at 18:19, Pravin Agarwal <pravin@kejriwalcastings.com> wrote:

Dear Sir,

We have gone through your term sheet and have concluded with following points

1) We request you to reduce the rate to 3.55 per unit
2) Please bring down the contract term to 20 years in place of 25 years.

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.

On Fri, 6 Nov 2020 at 18:29, Pravin Agarwal <pravin@kejriwalcastings.com> wrote:

> Dear Sir,
>
> We are ok with the rate of 3.80 and we want to go with the module having the capacity of 445wp.
>
> We are ok with the draft agreement. Please proceed
>
> Thanks
>
> Pravin Agarwal
>
> EA To Director
>
> **Description: Description: cid:image001.jpg@01CDD935.10B1E340**
>
> Kejriwal Group
>
> **From:** SABUJ SOLAR [mailto:sabujsolar.ind@gmail.com]
> **Sent:** 03 November 2020 13:59
> **To:** Pravin Agarwal <pravin@kejriwalcastings.com>
> **Cc:** Siddharth Sourabh <siddharth.sourabh1@tatapower.com>; Sanyal Kaushik <kaushik.sanyal@tatapower.com>; Sandeep Kejriwal <sandeep@kejriwalcastings.com>
> **Subject:** Re: SUMMARIZED TERM SHEET FOR PROPOSED POWER PURCHASE AGREEMENT WITH THE TATA POWER RENEWABLE ENERGY LTD.
>
> Dear Mr. Agarwal,
>
> A) We have gone thru' your mail and discussed it point by point. As it stands, it is extremely difficult to further reduce the tariff from Rs.3.80 which was a result of protracted efforts as Mr Sanyal had assured special rates for Durgapur to Mr Kejriwal on the assumption of 3MW system capacity, whereas space available barely allows 1MW capacity.
>
> Further, our offer is based on higher capacity (445Wp) imported modules *prices of which have now already increased by 20%+* over last week. Alternately we can go for 330Wp-335Wp modules in which case total

and accessories.

While major clauses of the proposed agreement have been incorporated in the Term Sheet, the proposal is subject to final approval by the commercial risk committee of the board.

Chamrail Unit: Protracted technical discussions have taken place at various levels of engineering section based on inputs from senior engineer who visited the plant. Main constraints to MW level Solar Power System considered as follows:

1. Excessive heat from furnaces and comparatively low height of sheds liable to cause heating of modules leading to rapid degradation.

2. Dust from the furnace related activities shall heavily pollute modules on top of furnace shed.

3. Adjacent sheds, specifically shot-blasting and machining, are strongly recommended for structural testing as they are additionally burdened with EOT Cranes and loads. Impact of further module+structure load of approx. 20Kg / sq meter needs to be factored. Availability of structural drawings might have helped assessment to some extent.

Non-utilisation of the above sheds shall limit solar power system capacity to maximum 350-400 KWp suitable for your LT consumption only. TATA Power Solar generally goes for Capex model only for such capacities and shall be pleased to proceed if you so decide.

Hope you shall find the above proper and give us the go ahead for next action towards early closure of the same.

Thanking you,

for SABUJ SOLAR UDYOG PVT.LTD.

Sudipta Som, FCMA

DIRECTOR

SABUJ SOLAR UDYOG PVT.LTD.

Authorised Dealer: TATA Power Solar Systems Ltd.

Mobile: 9007161996, 9831438482

cc:

Mr. Kaushik Sanyal,

Head - BD & Growth (Renewables)

The Tata Power Co. Ltd.

Mr. Siddharth Saurav,

Manager-Sales

Tata Power Solar Systems Ltd.

3) After 20 years the asset will automatically transferred to us

4) The net metering system is not mention anywhere in the term sheet. Can you please elaborate what will be the process to have net metering system in our premises. As on Sunday we may not use the generation and the same should be transferred to the grid.

Request you to kindly clear the above points and send us the draft agreement for further process.

Thanks

Pravin Agarwal

EA To Director

Description: Description: cid:image001.jpg@01CDD935.10B1E340

Kejriwal Group

From: SABUJ SOLAR [mailto:sabujsolar.ind@gmail.com]
Sent: 16 October 2020 11:57
To: Pravin Agarwal <pravin@kejriwalcastings.com>
Cc: Siddharth Sourabh <siddharth.sourabh1@tatapower.com>; Sanyal Kaushik <kaushik.sanyal@tatapower.com>
Subject: SUMMARIZED TERM SHEET FOR PROPOSED POWER PURCHASE AGREEMENT WITH THE TATA POWER RENEWABLE ENERGY LTD.

SSU-Q/2020-21/RTOP/MNR/239/PPA dated 15.10.2020

Mr. Sandeep Kejriwal,

MANAGING DIRECTOR

Kejriwal Castings Ltd.
Chatterjee International,
33A, Chowringhee Road,

Kolkata 700071.

Dear Sir,

In continuation of our previous communications vis-a-vis proposal for solar power systems, we have pleasure in submitting outcome of fresh studies of the two units as follows:

Durgapur Unit: As decided, we have been working on the **Power Purchase Agreement** for **1000 KWp** for your Durgapur unit, and are pleased to submit our summarized Term Sheet of Power Purchase Agreement for your study and scrutiny prior to agreement being finalized to the mutual satisfaction of detailed terms and conditions.

The above capacity is subject to minor alterations on freezing of final design which is under process. Further, tariff proposed is subject to change upon levy of fresh Import Duty, if any, on components

ANNEXURE-9
Saplings of Plant
(Purchase Invoices)

DURGAPUR NURSERY

B.C. ROY AVENUE NEAR BUS STAND, DURGAPUR 01,
DURGAPUR, BARDHAMAN, WEST BENGAL, 713201
Email: -durgapurnursery@gmail.com MOB:-7001381287

Date. 20/01/2022

To

Kejriwal casting ltd.
Bamunara,

SUB:- Bill No-DN/104,Supply Of Plants and plantation

SL NO	PARTICULARS	QNTY.	RATE.	AMMOUNT
1)	Chinese Tagor	100 Pc	25/-	2500.00
2)	Sejeum Plants	150 Pc	20/-	3000.00
3)	Duranda Hedge	150 Pc	5/-	750.00
4)	Rangon Red	20 Pc	50/-	1000.00
5)	Plumeria	16 Pc	40/-	640.00
6)	Red Hedge	220 Pc	5/-	1100.00
7)	Bangalore Croton Big	5 Pc	120/-	600.00
8)	Ficus	11 Pc	120/-	1320.00
9)	Arelia White	65 Pc	40/-	2600.00
10)	Pendonus	49 Pc	50/-	2450.00
11)	Bangalore Croton Small	4 Pc	40/-	160.00
12)	Golden Jhow	2 Pc	250/-	500.00
13)	Mexican Grass	250 Sq Feet	15/-	3750.00
14)	Mali Charges For Plantation			4750.00
15)	Transportation			350.00
	(Twenty Five Thousand Four Hundred Seventy Only)		TOTAL:-	25470.00

- Kindly cheek **accounts details** after paid the bill because **account numbers** have changed. I have enclosed a cancel cheque for account confirmation.

ACCOUNT DETAILS:-

A/C NAME - DURGAPUR NURSERY
A/C NUMBR - 3412622424
IFSC - CBIN0284463
BRANCH - DCL (CENTRAL BANK OF INDIA)

Durgapur Nursery
Proprietor

Gaude.
21/01/2022

DURGAPUR NURSERY

B.C. ROY AVENUE NEAR BUS STAND, DURGAPUR 01,
DURGAPUR, BARDHAMAN, WEST BENGAL, 713201
Email: -durgapurnursery@gmail.com MOB:-7001381287

Date:29/01/2022

To

Kejriwal casting ltd.
Bamunara,

SUB:- Bill No-DN/106,Supply Of Vegetable seeds

SL NO	PARTICULARS	QNTY.	RATE.	AMMOUNT
1)	COWDUNG MANNURE	2 TROLLY	2400.00	4800.00
2)	ONION SEEDS SUKH SAGAR (100 GM)	2 PCKT	350.00	700.00
3)	BIT SEEDS (25 GM)	1 PCKT	65.00	65.00
4)	GAJOR SEEDS (100 GM)	1 PCKT	180.00	180.00
5)	OLGOBI (50GM)	1 PCKT	280.00	280.00
6)	DHANIA (500 GM)	1 PCKT	250.00	250.00
7)	MOTOR (500GM)	1 PCKT	290.00	290.00
8)	CUTTER SECUTRER	1 PC	650.00	650.00
9)	PASHUNI	02 PC	180.00	360.00
	(Seven thousand five hundred seventy five Only)		TOTAL:-	7575.00

ACCOUNT DETAILS:-

A/C NAME - DURGAPUR NURSERY
A/C NUMBR - 3412622424
IFSC - CBIN0284463
BRANCH - DCL (CENTRAL BANK OF INDIA)

29/01/2022

DURGAPUR NURSERY

B.C. ROY AVENUE NEAR BUS STAND, DURGAPUR 01,
DURGAPUR, BARDHAMAN, WEST BENGAL, 713201
Email: -durgapurnursery@gmail.com MOB:-7001381287

Date. 21.01.2022

To

Kejriwal casting ltd.
Bamunara,

SUB:- Bill No-DN/107,Supply Of Vegetable seeds

SL NO	PARTICULARS	QNTY.	RATE.	AMMOUNT
1)	FULL GOBI (10GM)	1 PCKT	490.00	490.00
2)	BADHA GOBI (10 GM)	1 PCKT	220.00	220.00
3)	GAJOR SEEDS (25 GM)	4 PCKT	45.00	180.00
4)	BEANS (100 GM)	1 PCKT	120.00	120.00
5)	MOTOR GREEN (1KG)	1 PCKT	260.00	260.00
6)	DHANIA (500 GM)	1 PCKT	180.00	180.00
7)	TAMATO (10GM)	1 PCKT	380.00	380.00
8)	SOSA /KHIRA (25 GM)	1 PCKT	160.00	160.00
	(One Thousand Nine Hundred Ninety Only)		TOTAL:-	1990.00

ACCOUNT DETAILS:-

A/C NAME - DURGAPUR NURSERY
A/C NUMBR - 3412622424
IFSC - CBIN0284463
BRANCH - DCL (CENTRAL BANK OF INDIA)

Durgapur Nursery
Proprietor

29/01/2022

DURGAPUR NURSER[illegible]

[illegible] AVENUE NEAR BUS STAND, DURGAP[illegible]
[illegible]RGAPUR, BARDHAMAN, WEST BENGAL, 713[illegible]
[illegible]nursery@gmail.com

MOB [illegible]

Date..15/10/2021

[illegible]riwal casting ltd.
[illegible]amunara,

SUB:- Bill No-DN/105,Supply Of Plants and plantation

SL NO	PARTICULARS	QNTY.	RATE.	AMMOUNT
1)	D.A.P	20 Kg	35/-	700.00
2)	KHOL	20 Kg	40/-	800.00
3)	URIA	10 Kg	15/-	150.00
4)	BONE DUST	10 Kg	40/-	400.00
5)	STRAMIC	5 Kg	40/-	200.00
6)	NEEMKHOL	5 Kg	40/-	200.00
7)	HORNFLEX	5 Kg	60/-	300.00
8)	SUPER FOSFET	5 Kg	30/-	150.00
9)	POTASH	5 Kg	30/-	150.00
10)	AN[illegible]	1 Bag	800/-	800.00
11)	THIMATE	5 Kg	150/-	750.00
12)	MONOCIL (100 ML)	5 Nos	80/-	400.00
13)	ROGAR (100 ML)	5 Nos	75/-	375.00
14)	VITAMIN FOR VEG PLANTS(100ML)	5 Nos	40/-	200.00
15)	KH[illegible]	2 Nos	300/-	600.00
16)	[illegible]	1 Nos	450/-	450.00
17)	[illegible]CON HEDGE SHEAR	1 Nos	950/-	950.00
18)	SPRAYER (2 LTR)	2 Nos	250/-	500.00
19)	NIRANI	5 Nos	65/-	325.00
20)	KASTE	3 Nos	70/-	210.00
21)	TOLOWAR	3 Nos	60/-	180.00
	(Eight Thousand Seven Hundred Ninety Only)		TOTAL:	8790.00

[illegible]NT DETAILS
[illegible] NAME : DURGAPUR NURSERY
[illegible] NUMBR : 3412622424
[illegible] : CBIN028445[illegible]
[illegible]NCH : [illegible] (CENTRAL BANK OF INDIA)

Manglal Suram

Chaudhary
Gandev
27/11/2021.

No. 165 BILL Date 7/7/2020

DURGAPUR NURSERY

Prop. *Pankaj Chowdhury (Chandan)*

Plants, Tub, Chaina & Selection Grass are also available here.

RAIL GATE, KALPATARU NAGAR (AMBEDKAR) COLONY,
DURGAPUR-1, PASCHIM BARDHAMAN
Mob.: 9333170013 / 7384996471

Name Negri Hari Casting Ltd

Address Durgapur

Sl. No.	PARTICULARS	Qnty.	Rate	AMOUNT Rs.	P.
1	Chaltem 2½, 3'	100	25/-	2500	
2	Kadam	100	25/-	2500	
3	Nim	150	25/-	3750	
4	Kanchan	100	20/-	2000	
			TOTAL	10750	

Total Rs. 10750/-

Rupees (in words) .....

DURGAPUR NURSERY
Regd. No.-14783
Rail Gate, Kalpataru Nagar Colony
Durgapur-713201

Purchaser Signature

For DURGAPUR NURSERY

N.B.: FLOWER TAV for any occasion available here.

No. 25

BILL

Date 30.8.2020

DURGAPUR NURSERY

Prop.- *Pankaj Chowdhury (Chandan)*

Plants, Tub, Chaina & Selection Grass are also available here.

RAIL GATE, KALPATARU NAGAR (AMBEDKAR) COLONY, DURGAPUR -1, PASCHIM BURDWAN (W. B.)

Mob.- 9333170013 / 7384996471

Name: Kejriwal casting Ltd.

Address: Ramnagar.

Sl No.	PARTICULARS	Qnty.	Rate	AMOUNT Rs.	P.
1	Big Debdaru	100 Pc.	180/-	18000	00
2.	Annapurna	2 Bag	700/-	1400	00
3.	Pyropos	2 Ltr	430/-	860	00
4.	Thimate	10 kg	120/-	1200	00
5.	Neem Khal	10 kg	40/-	400	00
6.	Hormflex	5 kg	60/-	300	00
7.	Bonedust	10 kg	40/-	400	00
8.	coconut mixed Sar	15 Pc.	140/-	2100	00
9.	cutting aid powder	2 Pc.	50/-	100	00
10.	vegitable seedlings	400 Pc.	2/-	800	00
11.	Transportion			700	00
			TOTAL	26,260	00

Rupees (in words) Twenty Six thousand two hundred sixty only

E. & O. E.

Durgapur Nursery

Purchaser Signature

Chowdhury

N. B. : FLOWER TAV for any occasion available here.

For DURGAPUR NURSERY

ANNEXURE-10

Copy of EMP

CHAPTER 5

ENVIRONMENTAL MANAGEMENT PLAN

5. Chapter 5: Environmental Management Plan

5.1 Preamble

The main idea of the Environmental Management Plan (EMP) is to recognize project specific actions that will be undertaken by the project authority for mitigation of the specific impacts identified in the proposed project. These actions will be included into project management system and incorporated into the implementation at various stages of project development. EMP also make sure that the project implementation will be carried out in accordance with the proposed design by taking appropriate mitigative actions to reduce unfavorable environmental impacts during its life cycle. The EMP describes both generic good practice measures and site specific measures, the implementation of which is aimed at mitigating potential impact associated with the project activity.

5.2 Objectives of the EMP

The main objective of Environmental Management Plan is to necessitate that the development in an identified particular study area needs to be intertwined with judicious consumption of non-renewable resources and to ensure that the stress/load on the ecosystem is within its permissible assimilative capacity i.e. its carrying capacity. In above context assimilative capacity refers to the maximum amount of pollution load that can be discharged into the environment without affecting the designated use of various environmental attributes and is governed by dilution, dispersion and removal due to physico-chemical and biological process. An effective EMP ensures that these environmental requirements and objectives are satisfied during all phases of project.

The long-term objectives of the EMP for all the environmental attributes are as under:

- To comply with all the regulations / applicable laws stipulated by Central & State Pollution Control Boards.
- To create good working conditions (devoid of air & noise pollution) for employees.
- To rationalize and streamline environmental activities to add value in efficiency and effectiveness.
- To encourage and achieve highest performance and response from individual employees and contractors.
- To plan out the complete strategy to take care of stakeholder engagement.
- Perspective budgeting and allocation of funds for environment management expenditure.
- To provide support and conduct developmental works for the purpose of achieving environment standards and to improve methods of environment management.
- Continuous development and search for innovative technologies for a cleaner and better environment.
- To contribute significantly for sustainable development.

5.3 Environmental Management Plan (EMP)

The EMP for the proposed project has been chalked out for the various environmental attributes viz, Air, Water, Land, Noise, ecology, socio-economic etc. and the same is presented below.

5.3.1 Source of Air Pollution and Control

In the proposed unit the Induction Kejriwal Casting Limited individual 30m high stacks will be attached to the following units.

Source	APC System	Concentration of dust	
		Inlet	Outlet
Induction furnace	Bag filter	1- 2 gm/Nm3	<50 mg/Nm3
Annealing furnace	Wet Scrubber	500-800mg//Nm3	<50 mg/Nm3
Zinc Coating Unit	Bag filter	1- 2 gm/Nm3	<50 mg/Nm3
Mg Converter Unit	Bag filter	1- 2 gm/Nm3	<50 mg/Nm3
Bitumin/ Epoxy Painting Unit	Wet Scrubber	1–1.5 gm/Nm3	<50 mg/Nm3
D.G	Proper stack with exhaust	-	<150 mg/Nm3

Particulate Emission

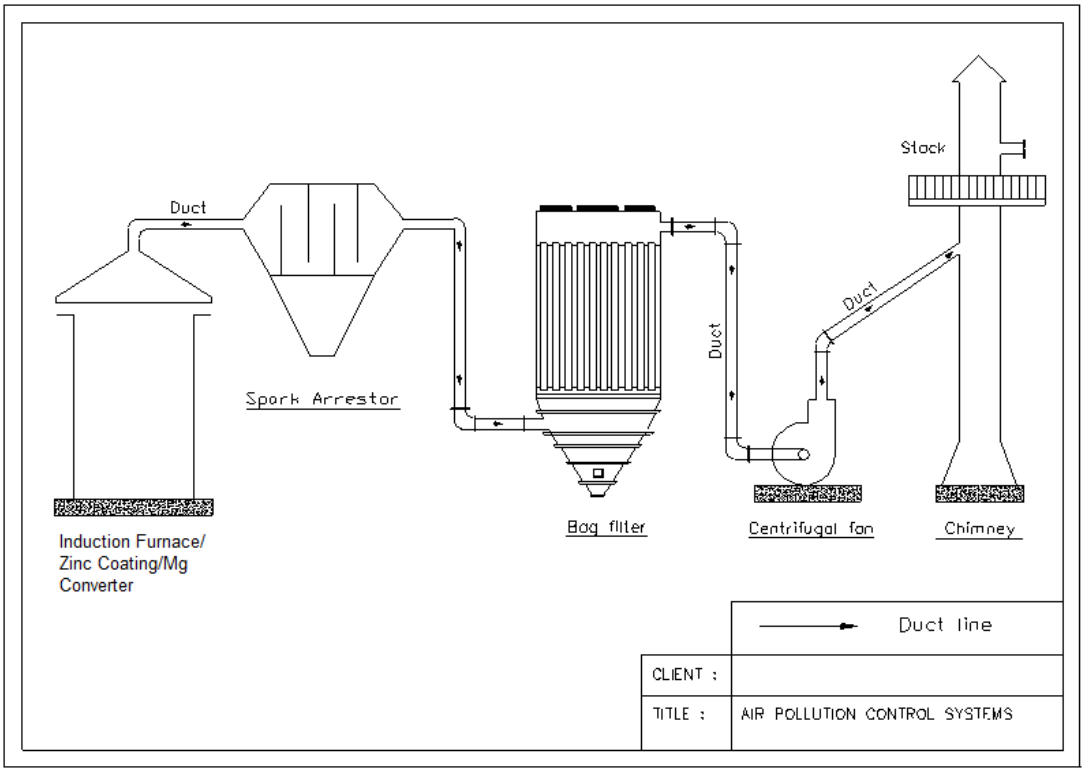
The sources of air pollution from the plant activities are as follows:

- Charging of Raw materials
- Fumes from Induction Furnace during Melting Operation

Control of emission from Induction Furnace

The emission from Furnace top, both during loading and during the process, is taken care by providing a hood above the furnace through which the dust particles will be sucked out by an induced draft fan. The hot gas along with dust particles will be cleaned by passing through the bag house. The clean gas to be then disposed through a 30 m high chimney.

Figure 5.1: Air Pollution Control System



The dust concentration level in the chimney will be periodically monitored and corrective steps will be taken, if the concentration is not as per the acceptable limits. The particulate concentration from the bag filters will remain within 50 mg/Nm3.

Table 5.1: APC Unit Details

- Technical details of Air Pollution control System for Induction Furnace

I.D. Fan Unit	for	4x4Ton Induction Furnace
Gas volume	:	50000 m3/hr.
Temperature	:	800C
Static pressure at operating temp.	:	300 mm of wc
Speed	:	1700 rpm
Power consumption at operating temp.	:	60 kw
Power consumption at 200C	:	72 kw
Recommended motor rating	:	90 kw, 4 pole.
Material of construction	:	Casting – 5 mm thk MS Steel Shaft – EN – 8 Impellers – 8 mm tnk. MS Steel

Bag Filter for Induction furnace	4x4Ton
Gas volume	50000 m3/hr.
Air to Cloth ratio	80.00 m3/hr/m2
Total filtering area	623.00 m2
No. of Filter Bag	360
No. of Module	2
No. of Filter Bag in each module	180
Bag size (dia x long)	150mm x 3660mm
Compressed air quantity	100 m3/hr at 6 – 8 kg/cm2 FAD
Pressure drop across the bag filter	125 – 150 mm of wc
Size and qty. of solenoid valve	40 NB x 30 nos.
Size of Rotary Air lock	300 x 300 mm
Geared motor	0.37 KW, 31 rpm

Pulse duration	30 – 50 mili second
Pulse Interval	10 – 300 sec.
Inlet Particulate Matter	2 – 3 gm/m3
Expected outlet Particulate Matter	<50 mg/m3
Stack diameter (m)	1.1
Flue gas velocity (m/sec)	15

I.D. Fan Unit	**for**	**3x4Ton Induction Furnace**
Gas volume	:	40000 m3/hr.
Temperature	:	800C
Static pressure at operating temp.	:	300 mm of wc
Speed	:	1500 rpm
Power consumption at operating temp.	:	41 kw
Power consumption at 200C	:	50 kw
Recommended motor rating	:	75 kw, 4 pole.
Material of construction	:	Casting – 5 mm thk MS Steel Shaft – EN – 8 Impellers – 8 mm tnk. MS Steel

Bag Filter for 3x4Ton Induction Furnace	
Gas volume	40000 m3/hr.
Air to Cloth ratio	80.00 m3/hr/m2
Total filtering area	498.00 m2
No. of Filter Bag	288
No. of Module	2
No. of Filter Bag in each module	144
Bag size (dia x long)	150mm x 3660mm
Compressed air quantity	80 m3/hr at 6 – 8 kg/cm2 FAD

Pressure drop across the bag filter	125 – 150 mm of wc
Size and qty. of solenoid valve	40 NB x 24 nos.
Size of Rotary Air lock	250 x 250 mm
Geared motor	0.37 KW, 31 rpm
Pulse duration	30 – 50 mili second
Pulse Interval	10 – 300 sec.
Inlet Particulate Matter	2 – 3 gm/m3
Expected outlet Particulate Matter	<50 mg/m3
Stack diameter (m)	0.97
Flue gas velocity (m/sec)	15

- Details of Air Pollution Control Equipment for Annealing Furnace

Air Volume	: 100,000 m³/hr.
Static Pressure	: 200mmWG
Speed	: 1000 rpm
Power consumption at fan shaft	: 82 KW
Recommended motor rating	: 110KW, 4 pole

Scrubber (Spray Tower):-		
Air Volume	:	1,00,000 m3/hr.
Temperature (0C)	:	30 – 35
Diameter	:	3800mm
Height	:	9500mm
Number of nozzle	:	100
Type of nozzle	:	Non clogging spiral
Capacity of each nozzle		1.5m3/hr
Water requirement	:	150 m3/hr.
Pump Capacity	:	165 m3/hr at 30M Head.

- If CBM is used for heating of Annealing Furnace then there will not be any control equipment, only Fan, Chimney and Platform Ladder will be installed.

- Details of Air Pollution Control Equipment for Magnesium Converter, Zinc Coating units.

I.D. Fan Unit	for	Zinc Coating Unit
Gas volume	:	40000 m3/hr.
Temperature	:	1000C
Static pressure at operating temp.	:	400 mm of wc
Speed	:	1650 rpm
Power consumption at operating temp.	:	41 kw
Power consumption at 200C	:	50 kw
Recommended motor rating	:	75 kw, 4 pole.
Material of construction	:	Casting – 5 mm thk MS Steel Shaft – EN – 8 Impellers – 8 mm tnk. MS Steel

Bag Filter for Zinc Coating Unit	
Gas volume	40000 m3/hr.
Air to Cloth ratio	66 m3/hr/m2
Total filtering area	621.00 m2
No. of Filter Bag	360
No. of Module	3
No. of Filter Bag in each module	120
Bag size (dia x long)	150mm x 3660mm
Compressed air quantity	80 m3/hr at 6 – 8 kg/cm2 FAD
Pressure drop across the bag filter	125 – 150 mm of wc
Size and qty. of solenoid valve	40 NB x 30 nos.
Size of Rotary Air lock	250 x 250 mm
Geared motor	0.37 KW, 31 rpm
Pulse duration	30 – 50 mili second
Pulse Interval	10 – 300 sec.

Inlet Particulate Matter	2 – 3 gm/m3
Expected outlet Particulate Matter	<50 mg/m3
Stack diameter (m)	0.97
Flue gas velocity (m/sec)	15

I.D. Fan Unit	**for**	**Mg Converter Unit**
Gas volume	:	40000 m3/hr.
Temperature	:	1000C
Static pressure at operating temp.	:	400 mm of wc
Speed	:	1650 rpm
Power consumption at operating temp.	:	41 kw
Power consumption at 200C	:	50 kw
Recommended motor rating	:	75 kw, 4 pole.
Material of construction	:	Casting – 5 mm thk MS Steel
		Shaft – EN – 8
		Impellers – 8 mm tnk. MS Steel

Bag Filter for Magnesium Coating Unit	
Gas volume	40000 m3/hr.
Air to Cloth ratio	66 m3/hr/m2
Total filtering area	621.00 m2
No. of Filter Bag	360
No. of Module	3
No. of Filter Bag in each module	120
Bag size (dia x long)	150mm x 3660mm

Compressed air quantity	80 m3/hr at 6 – 8 kg/cm2 FAD
Pressure drop across the bag filter	125 – 150 mm of wc
Size and qty. of solenoid valve	40 NB x 30 nos.
Size of Rotary Air lock	250 x 250 mm
Geared motor	0.37 KW, 31 rpm
Pulse duration	30 – 50 mili second
Pulse Interval	10 – 300 sec.
Inlet Particulate Matter	2 – 3 gm/m3
Expected outlet Particulate Matter	<50 mg/m3
Stack diameter (m)	0.97
Flue gas velocity (m/sec)	15

- Details of Air Pollution Control Equipment for Bitumin/ Epoxy Painting unit

Air Volume	: 50,000 m³/hr.
Static Pressure	: 200mmWG
Speed	: 1000 rpm
Power consumption at fan shaft	: 82 KW
Recommended motor rating	: 110KW, 4 pole

Scrubber (Spray Tower):-		
Air Volume	:	50,000 m³/hr.
Temperature (0C)	:	30 – 35
Diameter	:	1750mm
Height	:	4500mm
Number of nozzle	:	100
Type of nozzle	:	Non clogging spiral
Capacity of each nozzle		0.75m3/hr

Water requirement	:	75 m3/hr.
Pump Capacity	:	80 m^3/hr at 25M Head.

5.3.2. Work Zone Emission control

All the raw material and finished product transfer points or conveyor chutes will have dry fogging/misting system to restrain the fugitive dust from escaping into surrounding area. The dry fogging system nozzles envisaged will be self cleaning and low maintenance type such that:

- The dry fog systems to be implemented for suppressing all kind and level of dust.
- The dry fog system envisaged will control all breathable fugitive dust (1 to 10 microns).
- All the conveyors and transfer points will be totally enclosed with only self closing doors for entry for the purpose of maintenance.
- All the internal roads, proposed roads will be either asphalted or concreted.
- One mobile water tanker fitted with water spraying arrangement is considered during the operation period for keeping the connecting roads inside the Plant in wet condition.

Table 5.2: Fugitive Emission Sources

Sl. No.	Fugitive emission sources	Control Technique	Control Equipment
1.	Active Storage area	• Watering • Wind screens • Plantation	Water sprinkling on yard

2.	Raw Materials Handling	• Wind Screen	Water Sprinkling
3.	Loading & Unloading	• Wind Screen • Water sprays	Water sprinkling on yard
4.	Internal road transportation	• Water spray • Concrete / Bitumen road	Dust suppression system

5.3.3. Effluent Generation and Control

The prevention and control of water pollution aim at conserving make-up water by recycling the wastewater after treatment. The wastewater, likely to be generated from the proposed plant is:

- Run-off water from Raw Material Storage Yards
- Canteen Effluents

Cement slurry (Approx. 20 Tonnes /month) is taken to the Effluent Treatment Plant from which the water is recycled and used for gardening and the solid is used to manufacture brick/cement tiles.

Efforts will be made to harvest rainwater in the plant. Run-off water from the office areas, shop roofs will be collected and stored for future use.

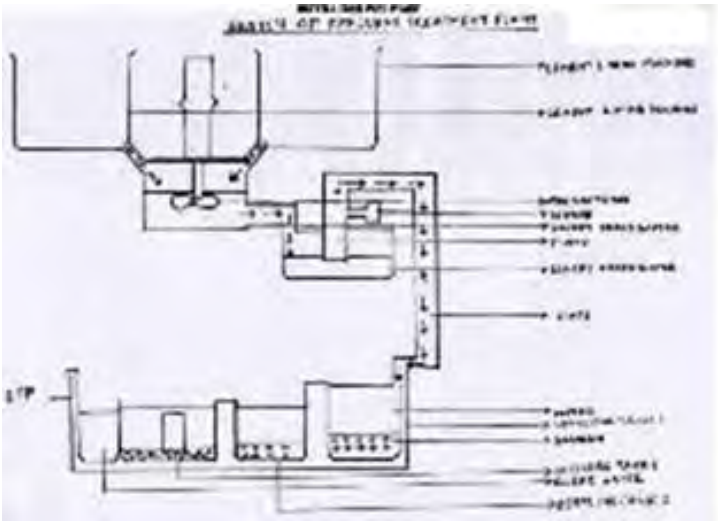
Domestic effluent from the various buildings / sheds of the plant will be conveyed through separate drains to septic tanks. The effluent from the septic tank will be disposed of through soil percolation by providing dispersion trenches / soak pits.

The plant will be designed as a zero discharge plant as far as the process effluents are concerned. The water will be recirculated through cooling and

treatment. No plant effluent will be discharged outside the plant premises. The entire waste water will be recycled for various purposes inside the plant.

Effluent Treatment Plant:

It is anticipated solid waste of around 20 tons/Month coming out of the cement lining process. This slurry is pumped into sedimentation chambers of the E.T.P. The sediments thus deposited into the sedimentation chambers. These sediments will be periodically removed with the help of a Mechanical shovel or Excavator. The solid waste thus collected will be removed to a drying bed and dried. After that it will be converted to brick or tiles or will be sold to a manufacturer of the same. The turbid water is taken for further neutralization since the pH value is around 12 and adequate acid dozing is done to bring the pH nearer to 7. The said neutralized water is re-circulated into the process. The detail of proposed ETP plant is shown in Figure below.



5.3.4. Solid waste Management

There will be no hazardous waste generated in this unit

The practice which will be followed for solid waste management by KCL is:

- From Induction Furnace solid waste is generated in the form of slag which is to be utilized in Road Filling and Land Reclamation.
- From Magnesium converter slag is generated which is to be utilized for Road Filling and Land Reclamation.
- The Runner Scrap is to be re melted.
- Core sand in Casting Area as well as the same from the Annealing Furnace is to be used in Land Filling and reclamation now, and will be recycled in the future.
- Zinc Dust is to be sold to PCB certified Paint manufacturer.
- Cement slurry is to be taken to the Effluent Treatment Plant from which the water is recycled and the solid is either be used to manufacture brick/cement tiles or is sold to a manufacturer of the same.
- Waste oil, used oil and other hazardous wastes will be safely stored in drums/tanks/covered shed and sold to authorized recyclers.

- Organic waste will be used as organic manure in the green areas. The municipal waste will be given to authorized agencies for suitable disposal. The detail of solid waste management is given in following Table.

.Type of Solid Waste	Estimated Generation (MT/month)	Process of Disposal
Slag from Induction Furnace (new project)	400	Disposed for land filling and road construction
Scrap	20	Re-melted in the process.
Slag from Magnesium converter	200	Used for Road Filling and Land Reclamation
Core Sand from Casting Area and Annealing Furnace	100	Used for Land Filling and reclamation and will be recycled.
Zinc Dust	50	Sold to certified Paint manufacturer
Dust from Air pollution control system	200	Land Filling, making of fly ash, bricks
Cement Slurry	20	Sold to Brick Manugfacturer

5.3.5. Noise Pollution Control

During Operational phase there will be generation of Noise and a comprehensive management plan will be taken to abide by the allowable standard which will help to keep the Noise level status in satisfactory level. It will also be beneficial to the workers.

Source of noise

During the operation phase of the project, major sources of noise pollution are expected to be from various machines used for production like the Induction Furnace and vehicular traffic.

i. Diesel Generator - 80- 85 dB(A)

ii. Slag Crusher - 80-90 dB (A)

Most of these generate higher noise. The movement of vehicles may create noise level of 70-80 dB (A). The machinery and techniques used for manufacturing process would be such that there is minimal nuisance of noise in the surrounding region. However as a precautionary measure, enclosures will be provided where ever possible for all the major noise making mechanical units to arrest the sound waves travelling outside the plant area.

AREAS THAT ACCOUNT FOR HIGHER NOISE LEVELS

- Raw Material Handling Sections
- Charging operation, Product handling
- APC Fans,
- Traffic Movement

IMPACTS & MITIGATION MEASURES

The assessment of the impacts due to noise pollution on the surrounding community depends upon characteristics of noise source (instantaneous, intermittent, or continuous in nature), period and duration and the location of noise source with respect to noise sensitive receptor. The noise impact of the industrial activity is insignificant at the boundary level of the industry. The noise level due to project activity is limited to the project site only and little impact on surrounding area. However, movement of vehicles will increase noise levels on the roads and their near vicinity. Suitable measures have to be adopted for occupational noise safety in factory and good maintenance of vehicles. The expected noise level from proposed project

activities at project boundary would be less than the statutory requirement, ie. less than 75 db (A) during day time and 70 db (A) during night time.

- Appropriate specifications of Equipment / Machinery.
- Proper maintenance – reduction of noise at source.
- Well lubrication of the rotating equipments.
- Provision of enclosures to reduce noise transmission.
- Provision of vibration Isolators to reduce vibration.
- Provision of silencers for noise generating machines.
- Housing of Fans in sound proof buildings.
- The equipments, which generate excessive noise, are provided with enclosures etc.
- Vehicular movements during operational phase for loading/unloading of raw and finished materials and other transportation activity may also increase noise level. The transport contractor will be instructed to keep vehicle periodically serviced and maintain as per the requirement of latest trend in automobile industry.
- Green belt will act as a barrier to the propagation of noise. Proposed greenbelt will reduce the noise levels appreciably and so there will not be any adverse impact occurred to the nearby present human settlement.

5.3.6. Soil Pollution Control

Preparation of site will involve excavations and fillings. The earthen material generated during excavations and site grading periods, shall be properly dumped and slope stabilization shall be taken. The topsoil generated during erections shall be preserved and reused for plantations.

All the solid waste generated will be reused either in process or in ancillary operations. Solid waste like Slag will be generated from induction furnace

which will be crushed and after recovery of iron, the inert material will be used in road construction and remaining amount is planned to be dumped in an environmental friendly manner in a separate area. Dust from Air pollution control system will be used forLand Filling, making of fly ash bricks. Sanitary waste will be disposed through proper waste management centre.

5.3.7. Safety & Health

Periodic monitoring of the health of the workers will be carried out as required by Factories Act. For safety, mock drill of the concerned employees for handling the emergency situation will be carried out, as a part of On-Site Emergency Plan. Air Quality at the work place will be measured intermittently. The details are summarized as given below.

- First Aid room with trained personnel.
- Safety training from time to time to all staff.
- Providing Nose Mask & Safety Shoes.
- Occupational Health.
- Periodical checkup of plant & Machinery to avoid accident.
- Compilation of on-site and off-site emergency plan.
- Effective notification and communication facilities.
- Regular review and updating the DMP.
- Staff Welfare and Recreation club.

5.3.8. Green Belt Development

Total area of the proposed Project site is 10.41 acres. 33% of the total area i.e., 13901 sqm will be proposed for greenbelt development i.e., afforestration program. The plantation will be done in three rows along the earmarked area as per the suggested scheme given in figure 5.2. The plantation will comprise of shed trees, big trees & lawn trees and it will be based from detailed soil analysis report. Green belt is necessary to minimize the effect of pollution due to this unit in local area. The total planning will be done so that it does not affect the factory operation.

Table 5.3: List of Big Trees for Proposed Plantation

No.	Common name	Scientific name	Family
01.	Arjun, Arjuna	*terminalia arjuna*	Combretaceae
02.	Ashwatha	*ficus religiosa*	Moraceae
03.	Akashmoni	*acacia moniliformis*	Mimosaceae
04.	Aam	*mangifera indica*	Anacardiaceae
05.	Bot	*ficus benghalensis*	Moraceae
06.	Chatim	*alstonia scholaris*	Apocynaceae
07.	Debdaru	*polyalthia longifolia*	anonaceae
08.	Ghoranim	*melia azedarch*	Meliaceae
09.	Jhaun	*casuarina equisetifolia*	Casuarinaceae
10.	Jarul	*lagerstroemia speciosa*	Lythraceae
11.	Karanj	*derris indica*	Fabaceae
12.	Krishnachura	*caesalpinia pulcherrima*	Caesalpinaceae
13.	Nim	*azadirachta indica*	Meliaceae
14.	Pakur	*ficus infectoria*	Moraceae
15.	Radhachura	*delonix regia*	Caesalpinaceae
16.	Tantul, Tentuli	*tamarindus indica*	Caesal pinaceae
17.	Sisso	*dalbergia sissoo*	Papilionaceae
18.	Sirish	*albizia lebbeck*	Mimosaceae

Table 5.4 : Action plan for Plantation Program

Propagation technique adopted perspective plants in on hector.			Management & Cost estimation of plantation for 1st year plan		
Area (hector) for plantation	No. of plants	Plantation procedure	Management	Cost estimation for 1st year (Rs.)	Total cost for1st year (Rs.)
1.39	1500 per Hector Total plant **2085** approx	2.0 mt. Spacing [line to line & plant to plant]	1. Plantation of single plant (Rs. 40/- per plant)	83400/-	296500 approx.
			2. Watering, Manu ring & Maintenance at seeding stage (Rs. 60/- per plant)	125100/-	
			3. Maintenance throughout the year by 1 gardening staff for weeding, cleaning, climber cutting, fire line cleaning etc. (Rs. 4000/- p.m)	48000/-	
			Other expenses	40,000/-	

The scenario of planting arrangement and size should be based on the optimum use of available land. Plants suitable to abate the pollution should be identified to be local plants.

Species to be selected will fulfill the following specific requirements of the area:

- Tolerance to specific conditions or alternatively wide adaptability to ecophysiological conditions

- Fast growth
- Capacity to endure water stress and climate extremes after initial establishment
- Differences in height and growth habits
- Trees should be tall in peripheral curtain plantation, with large, spreading canopy in the primary and secondary attenuation zones.
- Pleasing appearances
- Providing shade

The general considerations involved while developing the green belt are:

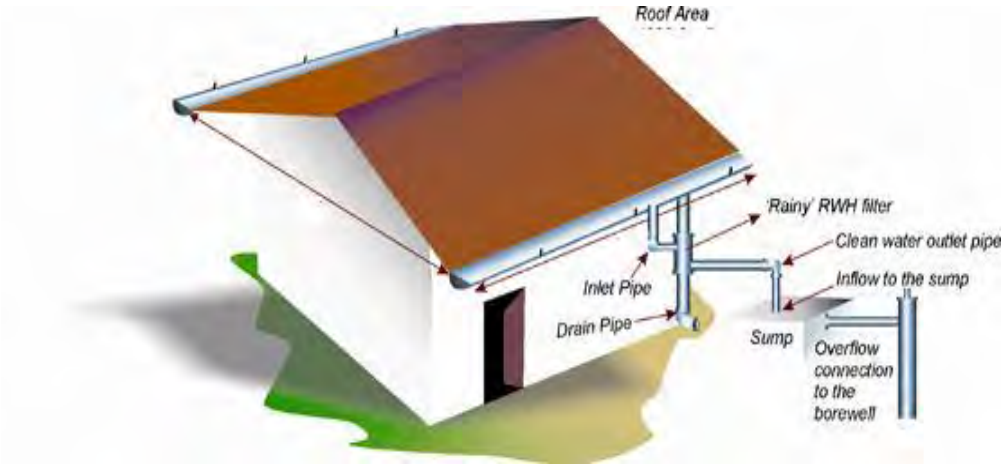
- Planting of trees should be undertaken in appropriate encircling rows.
- The trees should be protected by plantation of non palatable shrub species to avoid browsing by animals.
- It should be tolerant to air pollutants present in the area mainly dust pollution.
- It should have possessed extensive foliar area to provide maximum impinging surface for continued efficient adsorption and absorption of pollutants.
- It should able to grow and thrive on soil of areas, be evergreen in habitat having minimum of leaf fall.
- It should maintain ecological, land and hydrological balance of the region.

Figure 5.2: Greenbelt Area

5.3.9. Rain Water Harvesting

Rainwater harvesting is the method by which rainwater falling within the plant premises are collected and either reused or recharged to the ground. The quantum of rain water which is freely available for harvesting from the rooftop area is significant and keeping in view the shortage of drinking water as well as depletion of ground water storage, it is proposed to undertake a scheme of roof top rain water harvesting.

As per Environmental Management Plan this unit will have a Rain Water harvesting Plan. It is known from the IMD data that in Dhaniakhali area the average rainfall is 1500 mm per year. The total plant area is approximately 42127.77 m^2. The shed area considered for Rain water is approximately 4212 m^2 / 45337 sqft (10%) inclusive of the office building and the shed roof area.



The annual rainfall for the area is approximately about 1400mm.

Rain water yield (liters per year) = Roof Area (m^2) x Annual Rainfall (mm) x Run-Off coefficient of Friction x Filter Efficiency

Roof top area	4212 m^2 (approx)
Run Off coefficient of friction	0.85
Filter efficiency	90%

Rain water harvesting potential (4212 x 0.85 x 1400 x 0.90) = 4511052 lit = 4511m^3 (approx)

Tank capacity:

Tank capacity to be constructed for water harvesting may be taken 40% of annual rainwater yield i.e 40 % of 4511 m^3 = 1804 m^3 (approx)

Four typical size of a rectangular tank will be constructed in the basement with dimensions of 10 m x 10 m x 5 m = 500 m^3 each. This stored water in the tank can meet the basic water requirement for gardening purpose for the dry period and fire fighting.

Total rain water storage capacity will be 1804 m^3.

5.4. Application of Cleaner Production (CP) Technology

Cleaner Production in recent times has emerged as an attractive proposition to tackle the environmental problems posed by rapid industrialization and is being accepted worldwide. Besides reducing pollution, it also improves the process efficiency, thus reducing the cost of production. Applications of CP mainly focus on preventing or minimizing the generation of waste and gaseous emission. The basic idea of cleaner production is to avoid a problem altogether rather than trying to find remedial measure by adopting proactive approach of waste management. As far as the production processes are concern, CP is achieved by raw

material and energy conservation, by reducing quantum of emission and waste generation. To obtain fruitful results, CP should be implemented by adopting the concept of product modification, source reduction and recycling.

The proposed Unit will implement various techniques of CP in their factory premises and put continues efforts for developing new techniques. Proposed techniques of CP are described below:

5.4.1. Pollution Prevention

- High density polythene bags or drums are used. Hence, the generation of plastic waste is reduced. Moreover, Discarded Bags and Container are decontaminated and reuse/sold.
- There is a periodic arrangement of environmental training program to create understanding among plant personnel towards environment.
- Unit manufactures products with maximum yield by using high-quality of raw material and advanced process technology.
- To minimize material wastage, standard SOP is followed by the unit.

5.4.2. Water Conservation

- Mopping will be done for the floor cleaning.
- As a part of water conservation, excess service water taps is not provided in the plant premises. Likewise, for the green belt development, water sprinkle system is used instead of hose pipe.
- For savings of about 40% of the water use, Low-volume, low-angle sprinklers are being used for lawn areas.

- Flow meter is installed at raw water intake and at Effluent Treatment plant.
- High Pressure Jet Pump is used for the cleaning of equipment, vessel & rector etc.

5.4.3. Energy Conservation

- First step to conserve energy is to identify source of energy utilization.
- Purchase of energy efficient machine.
- Variable frequency drives (VFD) in pumps, whenever required is provided to save energy.
- Use of low loss transformer instead of conventional transformer.
- Constant monitoring of energy consumption.
- Exploring the possibilities of introducing renewable energy.
- As far as possible the unit is planning to use solar street lights in the factory premises which is the renewable energy.
- Regular servicing of vehicles and machinery.
- Use efficient energy consuming equipments.
- Good insulation practice has been adopted to prevent heat losses.
- Regular cleaning to the lamps and fixtures is done to get better illumination in the plant.
- To avoid loss of precious quantum of energy, regular maintenance/ servicing is provided to all the equipments.
- Unit is planning to conduct energy audit regularly as a tool for monitoring purpose.
- Use energy saving bulbs.

- Installation of programmable on/off timers and sensors.

5.4.4. Reuse / Recycle

- Used oil from the plant & machineries is reused as a lubricant within plant and excess, if any is sold to authorize recyclers.

5.4.5. Good Housekeeping

Good housekeeping means changing prevalent practices or introducing new ways of operating and maintaining equipment. Good housekeeping is a vital factor in preventing accidents. Proper good housekeeping can prevent spillages and leakages, raw material & product loses.

Good housekeeping helps to create:

• Better working conditions

• Safer workplaces

• Greater efficiency

Good housekeeping reduces the chances of harmful materials entering the body and it improves the productivity.

For Good housekeeping following practices are adopted.

- All the materials are stored in compatible group.
- All pits, sumps are properly covered or securely fenced.
- Appropriate tools are provided for handling of all the materials.
- Regular training is given to all workforces.

All the passages, floors and stairways are maintained in good condition. The system is made available to deal with any spillage at the plant.

- Sufficient disposable bins are clearly marked and these are suitably located in the plant.
- In the plant, precaution and instructions are displayed at strategic locations. Proper working instructions are given to all the workers in factory.
- Roads/walkway within the plant is maintained neat and clean. Walkways are clearly marked and free from obstructions.

Recommendation for Good housekeeping practices:

- Follow safe work procedures and the requirements of the law.
- Keep aisles clear
- Keep work areas clean.
- Keep exits and entrances clear.
- Keep floors clean, dry and in good condition.
- Vacuum or wet sweep dusty areas frequently.
- Store all work materials in approved, clearly labelled containers in designated storage areas only.
- Clean up spills and leaks of any type quickly and properly.
- Clean and store tools, items and equipment properly.
- Fix or report broken or damaged tools, equipment, etc.
- Keep lighting sources clean and clear.
- Use proper waste containers.
- Keep sprinklers, fire alarms and fire extinguishers clear.

5.5. Budgetary Allocation for Environment Protection

A capital investment towards the proposed environmental protection, control & mitigation measures is about Rs. 130 Lakhs. The recurring cost is estimated to be around Rs. 30.0 lakhs per annum.

The unit keeps provision for adequate funds aside to meet with regular expenses for the environmental control measures. Cost for environmental management for the proposed project is given in Table 5.4.

Table 5.5: Cost for Environmental Management

SL No	ITEM DESCRIPTION	For Proposed	
		CAPITAL INVESTMENT (Rs. in Lakhs)	RECURRING COST PER YEAR (Rs. in Lakhs)
1	APC System	112.0	22.0
2	Water sanitation and septic tank	5.0	2.0
3	Statutory Compliance	-	2.0
4	Green Belt Development	3.0	1.0
5	Rain Water Harvesting	7.0	1.5
6	Miscellaneous safety including fire fighting purpose	3.0	1.5
	Total	**130**	**30.0**

ANNEXURE-11

Environmental Policy

Corporate Environmental Policy

We, **M/s Kejriwal Castings Limited,** at Khatian no. 5770, J.L.No.58, Vill.-Gopalpur, Bamunara Industrial Area, Mouza- Bamunara, PS- Kanksa, Durgapur, PIN-713212, Dist.- Paschim Bardhaman, West Bengal believe that businesses are responsible for achieving good environmental practice and operating in a sustainable manner. We are therefore committed to reduce our environmental impact and continually improving our environmental performance as an integral and fundamental part of our business strategy and operating methods.

Our policy is to

- Wholly support and comply with or exceed the requirements of current environmental legislation and codes of practice.
- Minimise our waste and then reuse or recycle as much of it as possible.
- Minimise energy and water usage in our factory premises, vehicles and processes in order to conserve supplies, and minimise our consumption of natural resources, especially where they are non-renewable.
- Apply the principles of continuous improvement in respect of air, water and noise pollution from our premises and reduce any impacts from our operations on the environment and local community.
- As far as possible purchase products and services that do the least damage to the environment and encourage others to do the same.
- Assess the environmental impact of any new processes or products we intend to introduce in advance.
- It is our priority to encourage our customers, suppliers and all business associates to do the same.

Approved by:-

For Kejriwal Castings Limited

KEJRIWAL CASTINGS LIMITED DURGAPUR

Sandip Kejriwal

Managing Director

ANNEXURE-12
Hierarchy level of Environmental Cell

CIN: U27310WB2005PLC103224

Kejriwal
CASTINGS LIMITED

MANUFACTURERS & EXPORTERS OF DUCTILE IRON, CAST IRON PIPES, FITTINGS, VALVES ETC.

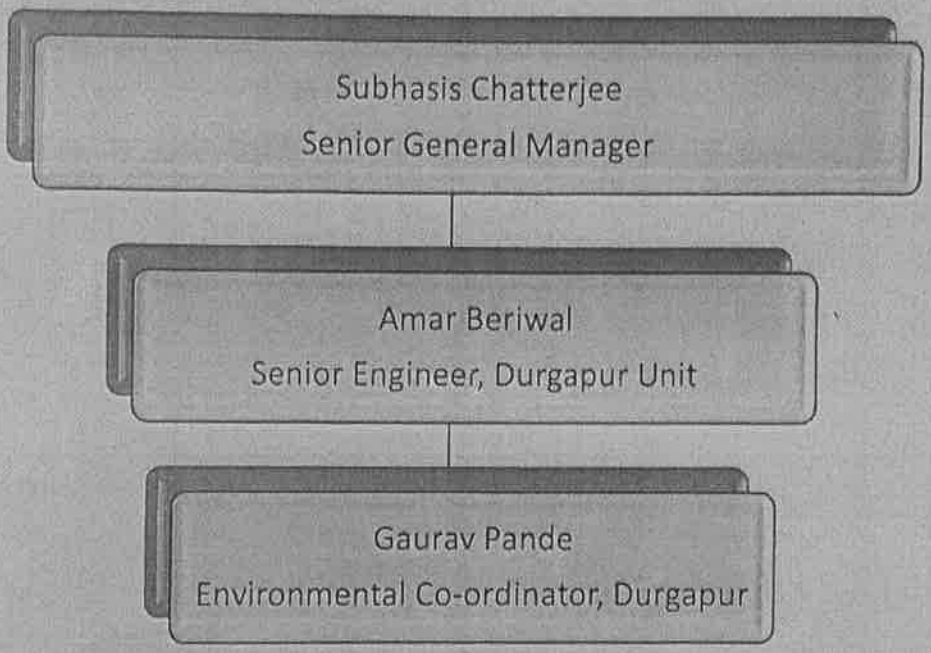
Corporate Office: Chatterjee International Centre, 33A, Chowringhee Road, 11th Floor, Suite # 1, 6 & 11, Kolkata 700 071, INDIA
Phone: 22262312, 22262313, 22263145 Fax: +91 33 22262314 E-mail: info@kejriwalcastings.com Website: www.kejriwalcastings.com

Works 1: NH-6, Chamrail, Howrah - 711114 (W.B.) INDIA Phone: (0321) 2237244, 2247527
Works 2: Bamunara Industrial Estate, Bamunara, Durgapur 713 212, (W.B.) INDIA

IS:1537
IS:1538
IS:5312
IS:7181
IS:8329
IS:8704
IS:9523
IS:13382
IS:14846
IS:14846

Environmental Hierarchy

The following chart depicts the environmental hierarchy at our D.I. pipe manufacturing facility at Bamunara Industrial Area, Bamunara, Durgapur-713212.



For Kejriwal Castings Limited

KEJRIWAL CASTINGS LIMITED DURGAPUR

Sandip Kejriwal

Managing Director

ANNEXURE-13

Year wise funds earmarked (CSR)

Financing plan for Corporate Social Responsibility Activities

We intend to undertake various CSR activities in and around the plant. A total amountof Rs. 2,66,03,200 (Rs. Two crores Sixty Six lakhs Three thousands two hundred only) would be utilized for CSR program over a period of 10 years. The said amount is 2.5% of the total project cost. Indicative detailed breakup of the same is given as below: -

SL. NO.	Activities	Total
1	Award	40,00,000
2	Library	20,00,000
3	Sports and cultural activities	30,00,000
4	Senior citizens	16,00,000
5	First aid training	16,00,000
6	Ambulance and crematorium services	24,00,000
7	Health support	14,00,000
8	Cleaning the entire area with peoples" participation	10,00,000
9	Plantation in backyards, schools and community lands to preserve eco-and environment friendliness	15,00,000
10	Construction of community Latrines	10,00,000
11	Construction of rain water harvesting structures	3,00,000
12	Disaster management	20,00,000
13	Involving local groups for social Work	8,00,000
14	Infrastructure for educational institute	6,00,000
15	Park/Playground	2,00,000
16	Construction and Maintenance of access road	2,00,000
17	Awareness creation among the public and school children	10,03,200
18	Scholarship	20,00,000
	Total	2,66,03,200

Approved by:-

For Kejriwal Castings Limited

KEJRIWAL CASTINGS LIMITED DURGAPUR

Sandip Kejriwal

Managing Director

Planned CSR Activities Matrix over a Span of 10 Years in a Yearly Manner

Sl. No.	Activities	1	2	3	4	5	6	7	8	9	10
1	Award										
2	Library										
3	Sports and cultural activities										
4	Senior citizens										
5	First aid training										
6	Ambulance and crematorium services										
7	Health support										
8	Cleaning the entire area with people's participation										
9	Plantation in backyards, schools and community lands to preserve eco-and environment friendliness										
10	Construction of community Latrines										
11	Construction of rain water harvesting structure										
12	Disaster management										
13	Involving local groups for social Work										
14	Infrastructure for educational institute										
15	Park/Playground										
16	Construction and Maintenance of access road										
17	Scholarship										
18	Awareness creation among the public and school children										

Approved by:-

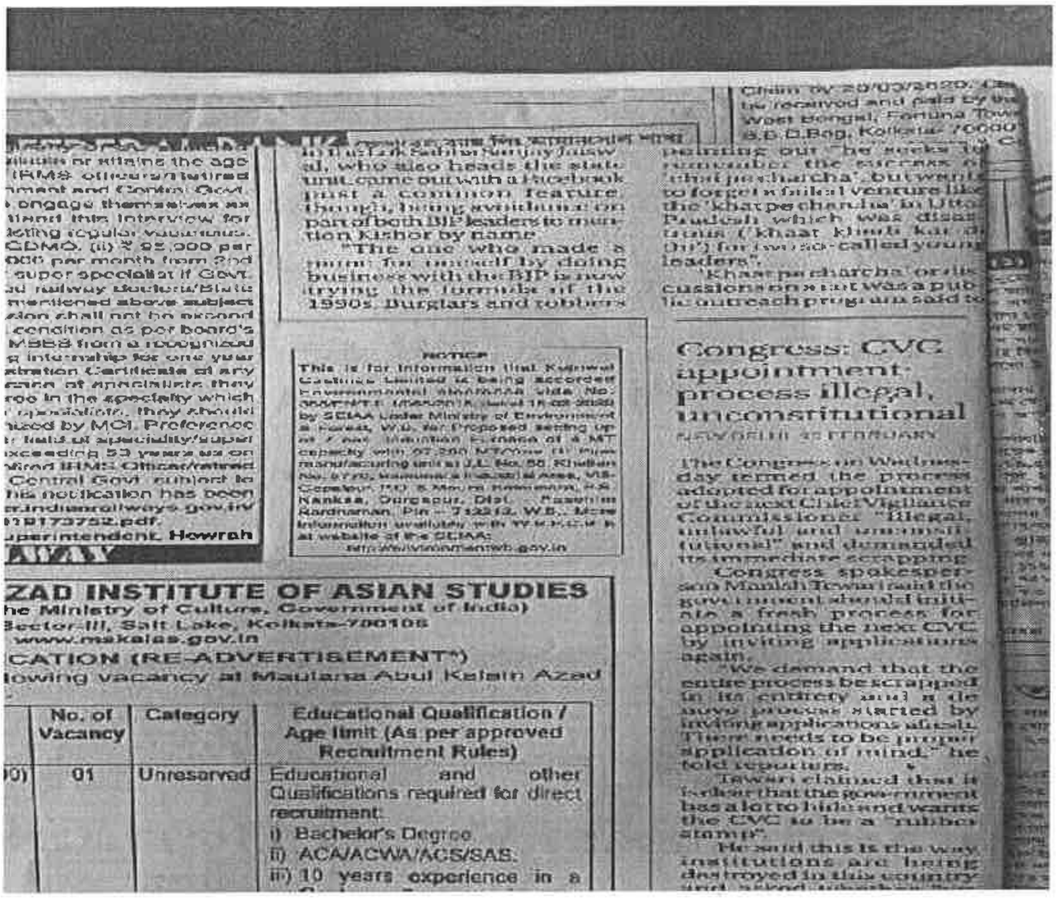
For Kejriwal Castings Limited

Sandip Kejriwal

Managing Director

ANNEXURE-14
Advertisement for both the languages

Advertisement in Bengali News paper "AajKal", Kolkata edition on 21.02.2020


NOTICE

This is for information that Kajaria Castings Limited is being accorded Environmental clearance vide No: ... by SEIAA Under Ministry of Environment & Forest, W.B. for Proposed setting up of ... Induction Furnace of 4 MT capacity with 97,200 MT/Annum ... manufacturing unit at J.L. No. 56, Khatian No. ..., ... Industrial Area, Vill-Gopalpur, P.O. & Mouza Rajbandh, P.S. Kanksa, Durgapur, Dist. Paschim Bardhaman, Pin – 713212, W.B.. More information available with W.B.P.C.B & at website of the SEIAA: http://environmentwb.gov.in

AZAD INSTITUTE OF ASIAN STUDIES

(the Ministry of Culture, Government of India)

Sector-III, Salt Lake, Kolkata-700106

www.makaias.gov.in

NOTIFICATION (RE-ADVERTISEMENT*)

following vacancy at Maulana Abul Kalam Azad

No. of Vacancy	Category	Educational Qualification / Age limit (As per approved Recruitment Rules)
01	Unreserved	Educational and other Qualifications required for direct recruitment: i) Bachelor's Degree ii) ACA/ACWA/ACS/SAS. iii) 10 years experience in a

Congress: CVC appointment process illegal, unconstitutional

NEW DELHI, 19 FEBRUARY

The Congress on Wednesday termed the process adopted for appointment of the next Chief Vigilance Commissioner "illegal, unlawful and unconstitutional" and demanded its immediate scrapping.

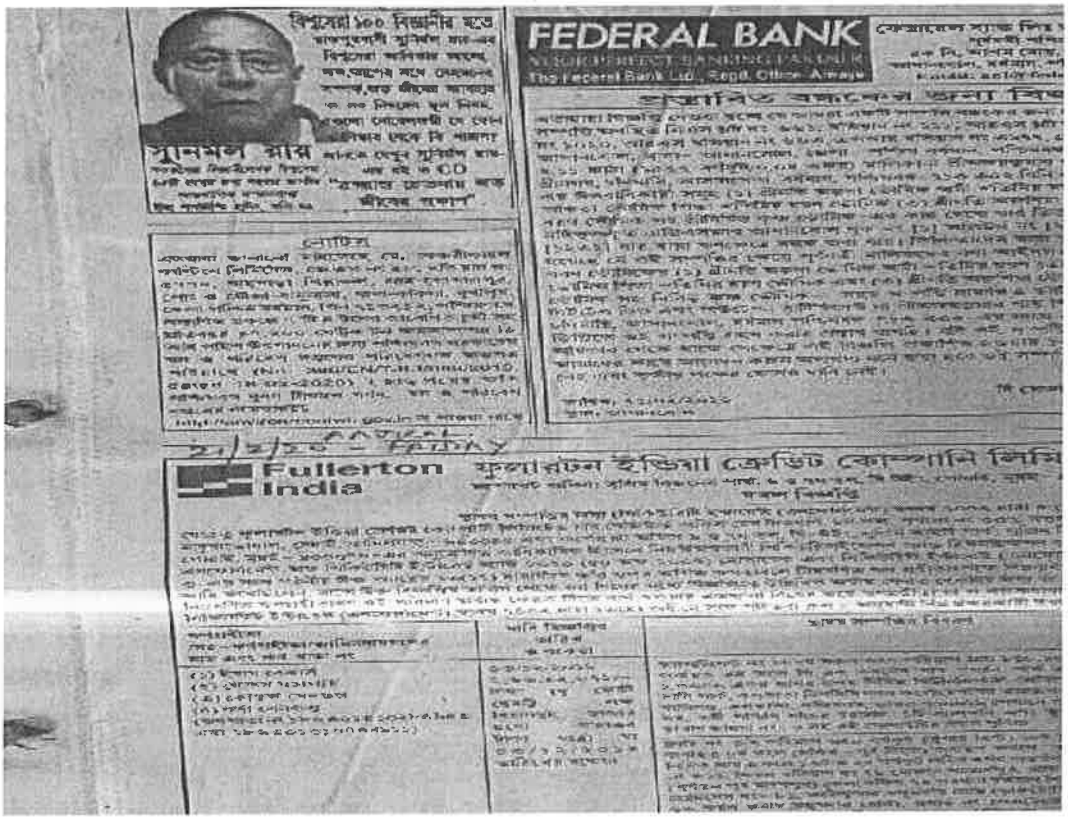
Congress spokesperson Manish Tewari said the government should initiate a fresh process for appointing the next CVC by inviting applications again.

"We demand that the entire process be scrapped in its entirety and a de novo process started by inviting applications afresh. There needs to be proper application of mind," he told reporters.

Tewari claimed that it is clear that the government has a lot to hide and wants the CVC to be a "rubber stamp".

He said this is the way institutions are being destroyed in this country

Advertisement in English News paper "The Statesman", Kolkata edition on 20.02.2020


FEDERAL BANK

The Federal Bank Ltd., Regd. Office: Alwaye

নোটিস

21/2/20 - AAJKAL - FRIDAY

Fullerton India

ফুলারটন ইন্ডিয়া ক্রেডিট কোম্পানি লিমি

ANNEXURE-15

Submission letter of EC letter to Head of locals bodies, Panchayats Bodies

CIN: U27310WB2005PLC103224

Kejriwal
CASTINGS LIMITED

MANUFACTURERS & EXPORTERS OF DUCTILE IRON, CAST IRON PIPES, FITTINGS, VALVES ETC.

Corporate Office: Chatterjee International Centre, 33A, Chowringhee Road, 11th Floor, Suite # 1, 6 & 11, Kolkata 700 071, INDIA
Phone: 22262312, 22262313, 22263145 Fax: +91 33 22262314 E-mail: info@kejriwalcastings.com Website: www.kejriwalcastings.com

Works 1: NH-6, Chamrail, Howrah - 711114 (W.B.) INDIA Phone: (0321) 2237244, 2247527
Works 2: Bamunara Industrial Estate, Bamunara, Durgapur 713 212, (W.B.) INDIA

IS 1537
IS 1536
IS 5312
IS 7181
IS 8329
IS 8794
IS 9523
IS 13382
IS 14845
IS 14846

To,

Date: 28-12-2020

The Regional Officer,

West Bengal Pollution Control Board,

Durgapur Regional Office,

City Centre,

Durgapur-713216

Subject: Intimation regarding starting of production activity at our D.I. Pipe plant.

Respected sir,

This is to Inform you that we have started with commercial production at our D.I. Pipe plant located at Bamunara Industrial Area, Bamunara, Durgapur-713212. We will follow all Environmental procedures and norms as applicable for our unit during the process of manufacture at our unit.

Thanks and Regards,

KEJRIWAL CASTINGS LTD. UNIT-II DURGAPUR 713212

Mangilal

Mangilal Surana

DGM- Admin & Commercial

W.B. Pollution Control Board City Centre, Durgapur-16 RECEIVED Contents Not Verified

W.B. Pollution Control Board City Centre, Durgapur-16 RECEIVED Contents Not Verified Durgapur Regional Office

ANNEXURE-16
Undertaking

CIN: U27310WB2005PLC103224

Kejriwal CASTINGS LIMITED

MANUFACTURERS & EXPORTERS OF DUCTILE IRON, CAST IRON PIPES, FITTINGS, VALVES ETC.

Corporate Office: Chatterjee International Centre, 33A, Chowringhee Road, 11th Floor, Suite # 1, 6 & 11, Kolkata 700 071, INDIA
Phone: 22262312, 22262313, 22263145 Fax: +91 33 22262314 E-mail: info@kejriwalcastings.com Website: www.kejriwalcastings.com

Works 1: NH-6, Chamrail, Howrah - 711114 (W.B.) INDIA Phone: (0321) 2237244, 2247527
Works 2: Bamunara Industrial Estate, Bamunara, Durgapur 713 212, (W.B.) INDIA

IS 1537
IS 1538
IS 5312
IS 7181
IS 8329
IS 8794
IS 9523
IS 13382
IS 14845
IS 14846

Declaration

TO WHOM IT MAY CONCERN

This is to declare that **M/s Kejriwal Castings Limited** at Khatian no. 5770, J.L.no.58, Vill-Gopalpur, Bamunara Industrial Area, Mouza- Bamunara, PS-Kanksa, Durgapur, PIN-713212, Dist.-Paschim Bardhaman, West Bengal will follow all the Environmental Policies, Commitments and Recommendations made in the EIA/EMP report as well as Environmental Conditions mentioned in the Environment Clearance Letter Ref No. 388/EN/T-II-I/066/2018 dated 18th February, 2020. We will abide by all Environmental rules and regulations amended from time to time and ensure that the environment remains unaffected by our activities.

Authorized by: -

For Kejriwal Castings Limited

KEJRIWAL CASTINGS LIMITED DURGAPUR

Sandip Kejriwal

Managing Director

ANNEXURE-17

Pollution Under Control Certificate (PUC)

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :

Government of West Bengal

Date	:	**12/08/2021**
Time	:	**10:11:18 AM**
Validity upto	:	**11/02/2022**

[redacted]

Certificate SL. No.	:	WB01900060004102
Registration No.	:	WB19G3753
Date of Registration	:	06/Aug/2014
Month & Year of Manufacturing	:	June-2014
Valid Mobile Number	:	******3666
Emission Norms	:	BHARAT STAGE III
Fuel	:	DIESEL
PUC Code	:	WB0190006
GSTIN	:	
Fees	:	Rs.100.0(GST as applicable)
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High Idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	2.45	0.85

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator
(Optional for State)

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By:

Transport Department, Government of Jharkhand

TEST RESULT : PASS

VALID TILL: 29/Dec/2022

Certificate Sl. No.:	JH02100210002014
Registration No.:	WB15C4779
Owner Name	DIVYARAJ YADAV
Chassis No.:	MAT403033D2N******
Engine No.:	B231823631L633******
Class of Vehicle:	Goods Carrier
Make:	TATA MOTORS LTD
Model:	LPT 2518
Vehicle Category:	HEAVY GOODS VEHICLE
Date of Registration:	22/Jan/2014
Emission Norms:	BHARAT STAGE III
Fuel:	DIESEL
Date of Testing:	30/Jun/2021
PUC Equipment Manufacturer Name	AVL India Pvt Ltd
PUC Equipment Manufacturer Model Name	AVL 437C
PUC Equipment Serial No.	5177

DIESEL DRIVEN VEHICLES

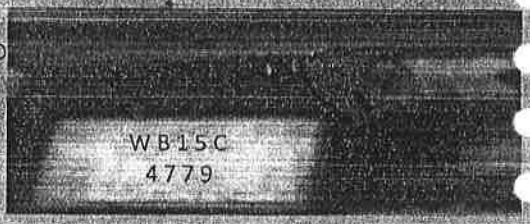
Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

FUEL	Light Absorption Coefficient (Permissible Limit)	Measured Value
DIESEL	2.45	1.17667

Time of Testing:	14:14:46
Govt Fees	100.0
Center Fees	200.0
Fee Charged:	Rs.300.0 (three hundred rupees only)

In case of any complain Please write to Transport Commissioner Jharkhand

Auto Emission Testing Centre Code: JH0210021
Testing Centre Name: SANYUKTA AUTO EMISSION TEST CENTRE
Centre Address: MIHIJAM,ASANSOL ROAD,KANGOI,NEAR KHALSHA HOTEL,JAMTARA,815354
Test Conducted By: SANYUKTA KUMARI



TEST RESULT FOR DIESEL VEHICLE

	IDLE RPM	MAX RPM	K_VALUE	OIL TEMP
TEST 1	720.0	2335.0	1.18	0.0
TEST 2	730.0	2300.0	1.24	0.0
TEST 3	745.0	2280.0	1.11	0.0
AVG	731.66667	2305.0	1.17667	0.0

This is a computer generated certificate and does not require signature

Fuel Norms entered by PUC center JH0210021 manualy,Please visit RTO and correct norms

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

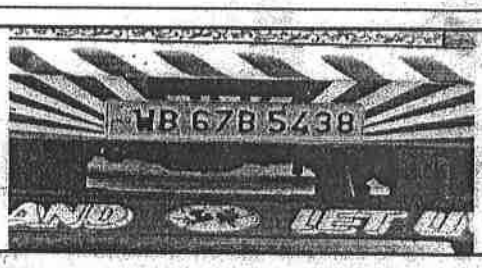
Authorised By :

Government of West Bengal

Date	:	**24/08/2021**
Time	:	**17:05:44 PM**
Validity upto	:	**23/08/2022**

Certificate SL. No.	:	WB03300100006549
Registration No.	:	WB67B5438
Date of Registration	:	04/Apr/2018
Month & Year of Manufacturing	:	December-2017
Valid Mobile Number	:	******8967
Emission Norms	:	BHARAT STAGE IV
Fuel	:	DIESEL
PUC Code	:	WB0330010
GSTIN	:	
Fees	:	Rs.100.0(GST as applicable)
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.35

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator
(Optional for State)
60mm x 20 mm

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of West Bengal

Date	:	**04/10/2021**
Time	:	**19:16:32 PM**
Validity upto	:	**03/10/2022**

Certificate SL. No.	:	WB03700700014163
Registration No.	:	WB40AH7796
Date of Registration	:	21/Nov/2017
Month & Year of Manufacturing	:	August-2017
Valid Mobile Number	:	******4197
Emission Norms	:	BHARAT STAGE IV
Fuel	:	PETROL
PUC Code	:	WB0370070
GSTIN	:	19AGAPT5561F1Z7
Fees	:	Rs.80.0(GST as applicable)
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	3.0	0.12
	Hydrocarbon, (THC/HC)	ppm	3000.0	110.0
High idling emissions	CO	percentage (%)	0.0	0.0
	RPM	RPM	2500 ± 200	0.0
	Lambda	-	1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator
(Optional for State)
60mm x 20 mm

Form 59

[See rules 115 (2)]

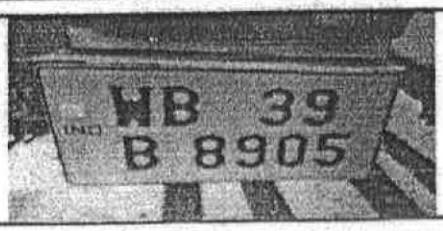
Pollution Under Control Certificate

Authorised By :
Government of West Bengal

Date	:	**28/07/2021**
Time	:	**13:30:14 PM**
Validity upto	:	**27/07/2022**

Certificate SL. No.	:	WB03700250002608
Registration No.	:	WB39B8905
Date of Registration	:	25/Nov/2019
Month & Year of Manufacturing	:	April-2019
Valid Mobile Number	:	******5594
Emission Norms	:	BHARAT STAGE IV
Fuel	:	DIESEL
PUC Code	:	WB0370025
GSTIN	:	NA
Fees	:	Rs.100.00
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm



Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)		
	Hydrocarbon, (THC/HC)	ppm		
High idling emissions	CO	percentage (%)		
	RPM	RPM	2500 ± 200	
	Lambda	-	1 ± 0.03	
Smoke Density	Light absorption coefficient	1/metre	1.62	0.2

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator
(Optional for State)
40mm x 20 mm

AUTO EMISSION TESTING CENTRE

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By: Paschim Burdwan RTO
Transport Commissionerate, West Bengal

TEST RESULT : PASS

VALID TILL: 11/Jul/2022

Certificate Sl. No.:	WB03700700011750
Registration No.:	**WB40AM0905**
Chassis No.:	MA3ERLF1S006*****
Engine No.:	G12BN6*****
Class of Vehicle:	Omni Bus (Private Use)
Make:	MARUTI SUZUKI INDIA LTD
Model:	CAFN0042F021002
Vehicle Category:	LIGHT MOTOR VEHICLE
Date of Registration:	21/Feb/2019
Emission Norms:	BHARAT STAGE IV
Fuel:	PETROL
Date of Testing:	12/Jul/2021

PETROL/CNG/LPG DRIVEN VEHICLES

Certified that the vehicle conforms to the standards prescribed under rule 115(2) of CMV Rules 1989

CO Level at Idling(% Volume) (PPM)

HC Level at Idling (RPM)

FUEL	Prescribed Standard CO	Measured Value	Prescribed Standard HC	Measured Value
PETROL	0.3	0.04199	200.0	97.0

At High idle RPM 2500±200 Measured RPM...

CO%		Lambda λ (RPM-2500±200)	
Prescribed	Actual	Prescribed	Actual
0.2	0.14	0.97-1.03	1.01

Time of Testing: 16:52:45

Testing Charge: Rs.100.0 (one hundred rupees only)

In case of any complain Please write to Transport Commissioner, West Bengal / email to: transportdeptt.wb@gmail.com

Auto Emission Testing Centre Code: WB0370070

Testing Centre Name: M/S THAKUR AUTO EMISSION TESTING CENTRE

Centre Address: D/50 YURI GAGARAIN PATH ,BIDHAN NAGAR , DURGAPUR,713206

Test Conducted By: RAJESH THAKUR

TEST RESULT FOR PETROL/CNG/LPG VEHICLE

	MEASURED VALUE	UNIT
CO	0.04	%
CO-CORRECTED	0.04199	%
HC	97.0	PPM
CO2	14.25	%
O2	0.13	%
RPM	2509.0	
OIL TEMP	0.0	DEGREE CENTEGRADE

This is a computer generated certificate and does not require signature

Form 59

[See rules 115 (2)]

Pollution Under Control Certificate

Authorised By :
Government of West Bengal

Date	:	**04/03/2022**
Time	:	**15:45:40 PM**
Validity upto	:	**03/09/2022**

WB40AA5895

Certificate SL. No.	:	WB03700240003633
Registration No.	:	WB40AA5895
Date of Registration	:	08/Sep/2014
Month & Year of Manufacturing	:	August-2014
Valid Mobile Number	:	******6594
Emission Norms	:	BHARAT STAGE III
Fuel	:	PETROL
PUC Code	:	WB0370024
GSTIN	:	19BVNPK9496H1ZL
Fees	:	Rs.80.00(GST as applicable)
MIL observation	:	No

Vehicle Photo with Registration plate
60 mm x 30 mm

Sr. No.	Pollutant (as applicable)	Units (as applicable)	Emission limits	Measured Value (upto 2 decimal places)
1	2	3	4	5
Idling Emissions	Carbon Monoxide (CO)	percentage (%)	3.0	1.75
	Hydrocarbon, (THC/HC)	ppm	3000.0	789.0
High idling emissions	CO	percentage (%)	0.0	0.0
	RPM	RPM	2500 ± 200	0.0
	Lambda	-	1 ± 0.03	0.0
Smoke Density	Light absorption coefficient	1/metre		

This PUC certificate is system generated through the national register of motor vehicles and does not require any signature.

Note : 1. Vehicle owners to link their mobile numbers to registered vehicle by logging to https://vahan.parivahan.gov.in

Authorised Signature with stamp of PUC operator
60mm x 20 mm

POLLUTION UNDER CONTROL CERTIFICATE

Authorised By: Paschim Burdwan RTO
Transport Commissionerate, West Bengal

TEST RESULT : PASS
VALID TILL: 14/Jun/2021

Certificate Sl. No.	WB03701110001336
Registration No	**WB15A6126**
Chassis No.:	466372DRZ211211
Engine No.:	80D62670070
Class of Vehicle:	Goods Carrier
Make:	TATA MOTORS LTD
Model:	LPT 3118 TC
Vehicle Category:	HEAVY GOODS VEHICLE
Date of Registration:	11/Jun/2008
Emission Norms	BHARAT STAGE II
Fuel:	DIESEL
Date of Testing:	15/Dec/2020

DIESEL DRIVEN VEHICLES
Certified that the vehicle conforms to the standards prescribed ur of CMV Rules 1989

FUEL	Light Absorption Coefficient (Permissible Limit)	Ma
DIESEL	2.45	

Time of Testing: 11:15:54
Fee Charged: Rs.100.0
Fee Charged: (one hundred rupees only)

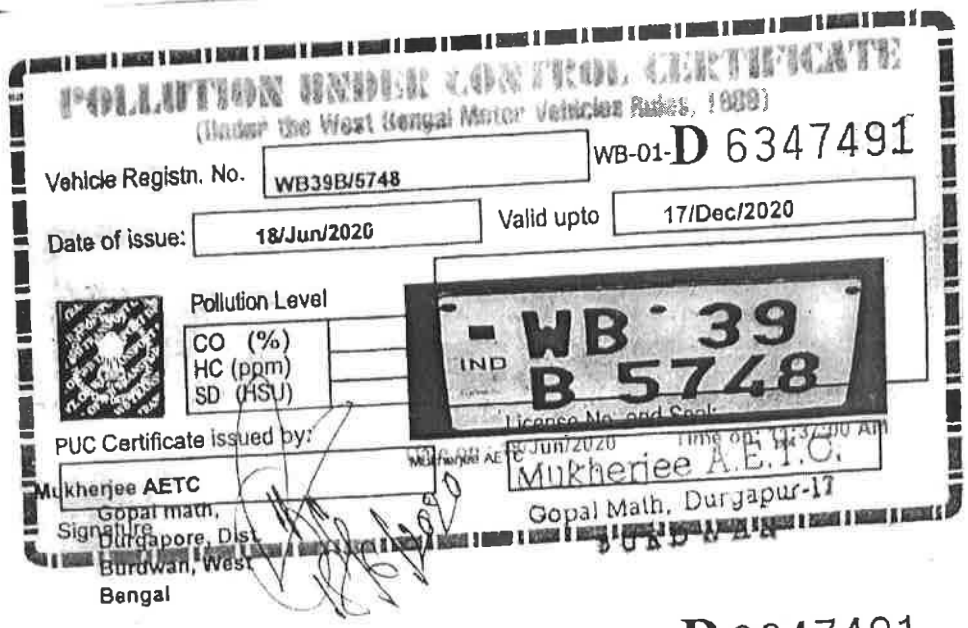
In case of any complain Please write to Transport Commissioner, West Bengal / email to: transportdeptt.wb@gmail.com

Auto Emission Testing Centre Code: WB0370111
Testing Centre Name: LALBABA AUTOMOBILES A.E.T.C
Centre Address: PLOT NO-2862, KH NO-1613, BIRUDIHA,KANKSA, PASCHIM BURDWAN,713148
Test Conducted By: ADITYA SAMANTA & LIPIKA SAMANTA

TEST RESULT FOR DIESEL VEHICLE

	IDLE RPM	MAX RPM	K_VALUE	OIL TEMP
TEST 1	740.0	2240.0	1.0	0.0
TEST 2	720.0	2300.0	0.91	0.0
TEST 3	740.0	2220.0	0.88	0.0
AVG	733.33334	2253.33334	0.93	0.0

This is a computer generated certificate and does not require signature



WB-01-D 6347491

Vehicle Pass Certificate

Puccno	AVL012072
Make	ASHOKLEYLAND
Model	3118 BSIV
Veh Type	TRUCK
Fuel	DIESEL
Reg Year	2018
OdoMeter	0
ChassisNo	4616
EngNo	2502
Test Time	11:37:00 AM

Flushing Cycle
Avg. RPM Min. 584 RPM Max. 2594 Temp. 95

S.No.	RPM Min.	RPM Max.	K m^{-1}	HSU %	Temp.
1	728	4252	0.39	15.8	88
2	730	4049	0.53	20.7	89
3	733	3937	0.49	19.0	90
4	728	3870	0.37	14.9	91
Mean		Pass	0.45	17.6	

Test Fee	100
Owner Name	RAM ROOP SINGH

POLLUTION UNDER CONTROL CERTIFICATE

(Under the West Bengal Motor Vehicles Rules, 1989)

Vehicle Registn. No. WB39A-5289 WB-01-D 5018975

Date of Issue: 04/07/20 Valid upto 03/01/21

Pollution Level

CO (%)	19.3%
HC (ppm)	
SD (HSU)	

WB 39A 5289

PUC Certificate issued by: SHYAM A E T C

License No. and Seal: Lic No : 25/2015-16

Signature Vehicle Passed

Transport Department,Govt Of West Bengal

POLLUTION UNDER CONTROL CERTIFICATE

Under the West Bengal Motor Vehicles Rules, 1989

WB-01-D 5018975

SHYAM AUTO EMISSION TESTING CENTRE

SANJIB SARANI ROAD.ESBEY MORE.DURGAPUR-01. (W.B)

Label Code :WB- LIC NO : 25/2015-16 Station Code:002

PUCC No :	WB0005723	Vehicle Reg. No:	WB39A-5289
Name :	MR MANI SANKAR ADHUF	Category:	OTHERS
Address :	**********	Make :	ASHOK LEYLAND
Ph No :	**********	Model :	TRUCK
Odometer Rea	**********	Date of mfr :	2011
Date :	04/07/20	Speedo mtr Rdg :	********
Time :	8:00AM	Engine No :	02262
Fuel :	DIESEL	Chassis No :	4762

Flushing Cycle Mean :RPM Min 00953 RPM Max 03160

S No.	RPM min	RPM max	K m-1	HSU%	OTP C
1	00840	02380	00.50	19.3	080.00
2	00840	02450	00.50	19.3	080.00
3	00830	02450	00.50	19.3	080.00
4	00880	02420	00.50	19.3	080.00
Mean	00847	02425	00.50/ m	19.3%	080.00

Valid upto 03/01/21

Grade : PASS

Test Fees : 100/-

This vehicle meets Emission Standards Prescribed under Rule 115(2) of central Motor Vehicles Rules 1989

Seal of Testing Centre

Authorised Signature

MARS DIESEL