



PARAMARSH

SERVICING ENVIRONMENT AND DEVELOPMENT

NABET-QCI Accredited EIA Consultant Organization
(NABET Certificate No. NABET/EIA/24-27/RA 0372,
Valid upto 30th Nov.'2027)

BSPCB Empanelment vide Notification No. 31 Dt: 09.12.2021

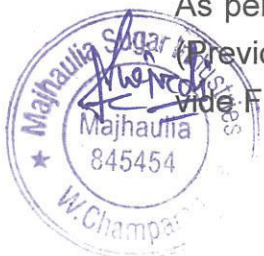
TO WHOM IT MAY CONCERN

Date : 08.06.2026

M/s Paramarsh Servicing Environment and Development (PSED) is an ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007 Certified organization, accredited by Quality Council of India (QCI / NABET) as an EIA Consultant Organization vide certificate No. NABET/EIA/24-27/RA 0372 Dt: 17.02.2025, valid upto 30.11.2027 & Environmental Auditor as per MoEFCC OM vide F. No. 22/20/2021-IA.III [E-164476] dt: 23.08.2021 and empanelled ECO with BSPCB vide Notification No. 03 Dt: 22.05.2025 . Aiming to manage the complex sustainable environment management system PSED was founded and it is the leading consultancy provider in the areas of environment, industrial safety and management systems. PSED is a team of eminent and outstanding technocrats and professionals. PSED believe in moving up the value chain by providing best in class services relating to consultancy on environment & pollution, industrial safety, and project management in order to achieve utmost customer delight. PSED also have sound exposure in the sphere of mining, management systems (ISO) as well as in social and legal aspects pertaining to the environment and safety. Furthermore, PSED provide voluntary self-motivated environment information and programme, encouraging people and community to live the green and safe way of life. We are committed to achieve customer satisfaction by ensuring the excellence of performance in all our offerings and services. PSED is located in Lucknow (Uttar Pradesh), and our operations are spread across India..

Majhaulia Sugar Industries (MSI) is operating its Sugar Mill Project of 6500 TCD capacity at Majhaulia, P.O. Majhaulia, of District West Champaran, State Bihar, having Latitude 26°47'51.79"N & Longitude 84°37'36.07"E at 96-97 m. above MSL. The Project Site is connected to NH 28B through Majhaulia Jagdishpur Road and it is about 10 kms. from district head quarter at Bettiah. MSI project site is about 0.5 Km. (SW) from Majhaulia Railway Station on NER. MSI has existing total land area of 76.44 Acres. For proposed expansion no additional land is required.

As per requirement of EIA Notification 2006, and amendments thereof, Initially, MSI (Previously MSIPL) has obtained EC of 5000 TCD Sugar Mill Project from MoEFCC vide F. No. J-11011/43/2009-IA II (I) Dt: 13th Apr.'2009. Thereafter, MSI has obtained



approval from BSPCB under No Increase in Pollution Load for expansion of project from 5000 TCD to 6500 TCD vide Memo No. 45 Dt: 08.01.2024 followed by Consent to Establish (CTE) vide Memo No. 19 Dt: 10.01.2025 and application for CTO of 6500 TCD project has been submitted vide application No. 12407459 Dt: 12.05.2026. CTO (CCA) for existing 5000 TCD has been granted by BSPCB vide Ref. No. 2871 Dt: 21.12.2023, which is valid upto 30.09.2028. MSI has obtained NOC from CGWB for withdrawal of 659 m³/day ground water vide NOC No. CGWA/NOC/IND/REN/2/2023/7976 Dt: 30.06.2023. NOC renewal application has been submitted vide application number IND/BH/2025/16931/R-3-REV-1, which is under process.

At present MSI is running 5000 TCD sugar mill unit during cane season (from Nov.- Mar. every year). Plant and equipment has been upgraded for crushing of 6500 TCD sugarcane from coming season. MSI project is located in West Champaran district which has abundant sugarcane in addition of adjoining areas of U.P. In view of surplus availability of Sugarcane in region MSI has planned to increase its cane crushing capacity from 6500 TCD to 8000 TCD (which is approx. 23% more than the existing cane crushing facility). Details of proposed production facility and production are as under ;

Manufacturing Facilities	Product	Existing capacity	Proposed Capacity	TOTAL Capacity
Cane Crushing	Refined Sugar	6500 TCD (Refine Sugar)	1500 TCD (Refine Sugar)	8000 TCD (Refine Sugar)

As per guidelines of MoEFCC, Govt. of India (vide Gazette Notification S.O. 980 (E), Dt: 02.03.2021, Amendment in EIA Notification 2006), MSI has been audited by PSED and the present report on **"No increase in Pollution Load"** is for the proposal of expansion on cane crushing capacity from 6500 TCD to 8000 TCD.

No additional boiler will be installed for proposed expansion of sugar mill cane crushing capacity. Steam requirement for proposed expansion will be met through existing boilers. Equipment of Mill House viz. Cane Feeding Arrangement, Clarification, Evaporator, Pan Section, Refinery section, Centrifugal house, Dryer house, Turbine, will be upgraded and



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modified in addition to civil construction and electrical system for proposed expansion project. Details are as under ;

Sr. No.	Item No/Equipment Name	Quantity
1	Mill House -	
A	CANE FEEDING ARRANGEMENT	1 No.
B	Cane cutter	1 No.
C	Mill Tendon 40 x 80	1 No.
D	Mill Motors 750 KW, 1440 RPM	3 Nos.
E	GRPF roller 1st mill	1 No.
F	GRPF roller 2nd mill	1 No.
G	GRPF roller 3rd mill	1 No.
H	GRPF roller 4th mill	1 No.
I	GRPF roller 5th mill	1 No.
J	Juice Pumps & Pipelines	1 Lot
K	Misc.& Contractor Jobs	
L	Fibrizor Motors 2250 KW, 742 RPM	2 Nos.
M	Mill motor Drive	3 Nos.
N	Fibrizor motors ASR Starter Panal	2 Nos.
O	DCS	1 No.
2	Clarification -	
A	Tubular Juice heater (600 M2)	6 Nos.
B	PHE	2 Nos.
C	Oliver filter(14 X 28)	1 No.
3	Evaporator -	
A	Falling Film Evaporator (6000 M2)	3 Nos.
B	DCS for Evaporation	1 No.
C	Valves for Juice, Vapour Condensate Line	1 Lot
D	Pipeline for juice, Vapour and condensate line	
E	Motorised Vapour valve arrangement	1 Lot
E	Juice and Syrup pump With motor	
F	Juice Concentrator	
4	Pan Section -	
A	Raw VCP Pan (100 T/Hr)	1 No.
B	Refinery pan (100 Ton)	1 No.
C	B batch Pan (100 ton)	2 No.
D	Multi Jet Condensor	2 Nos.
E	Air Cooled XLR (70 Ton)	5 Nos.
F	Injection Outlet Header& Inlet Header Modification	1 No.
G	Mechanical Cirrculater	4 Nos.
H	Existing Condensers Upgradation with Automation and Injection pump	7 Nos.
I	DCS for Pan Station	1 No.
J	Magma and Masecuite pump With motor	
K	Injection Pump	3 Nos.
	Molasses and Supply Tank	
	Cooling Tower, Civil Structure & Contractor	2 Nos.

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5	Refinery Section -	
A	Capacity enhancement and Conversion from Semi Refinery to refinery with DCS	1 No.
6	Centrifugal House -	
A	Refinery Batch Machine (2000 Kg/Ch.)	1 Nos.
B	Pug Mill for refinery Machine	1 No.
C	Magma Mixer	1 No.
D	Raw Batch Machine (1750 Kg/Ch.)	2 No.
E	Pug Mill for raw Machine	1 No.
F	Magma Mixer	1 No.
G	Continuous Centrifugal Machine (1350)	4 Nos.
H	Refurbished old Centrifugal Machine	4 Nos.
I	Iris Valve	
J	Structure and Contractor for Refurbished old Centrifugal Machine	
7	Drier house	
A	Sugar Grader (30 TON/Hr)	1 No.
B	Sugar Elevator (30 TON/Hr)	1 No.
C	New Hopper no.1 (2 M X 11 M)	1 No.
D	Sugar Weighing Machine	2 No.
E	Sugar Godown and Packing House with Sugar conveyor Belt Arrangement	
8	Turbine	
A	Turbine (11 M)	1 No.
9	Electrical -	
A	HT PCC Panal	1 No.
B	LT PCC Set	1 No.
C	Transformers 3.5 MVA	3 Nos.
D	Transformers 4 MVA	1 No.
E	XLPE Cable 11k (MTR)	450 Nos.
F	Electrical Miscellaneous and work like Bus Ducting, Earthing, Control Cable HT Terminal Box and Contractor Work Etc.	1 No.
10	Instrumentation -	
A	DCS for 11MW Turbine	1 No.
B	Bagasse weighing system & DCS for all boilers	1 No.
C	Miscellaneous instrument at Different Station	1 No.

Further, in order to control & minimize the impact on air quality within and around the plant premises extensive tree plantation will be carried out by MSI. Due to proposed expansion project, non point source of emission viz. vehicular pollution will also be increased. To minimize and control non point source emissions, internal roads will be strengthened with paved shoulders and additional tree plantation will be done along the roads.

Cost of Expansion project with budgetary allocation of EMP is as under ;

Components	Estimated Cost (in Crore Rs.)
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1. Civil Works	27.02
2. Plant & Machinery/Equipment including Turbine	116.50
3. Electrical & Instrumentation	6.61
4. Pollution Control and Environmental Management etc.	1.5
TOTAL	151.63 Cr

As per provisions of Gazette Notification No. S.O. 980 (E) Dt: 21st Mar.'2021 issued by MoEFCC, Govt. of India, MSI is submitting herewith an application to claim exemption from obtaining Prior Environment Clearance in respect of change in production methodology, with increase of 23% in cane crushing capacity.

Due to expansion in cane crushing capacity, pollution load will not be change in comparison to existing operation.

Pollution load assessment study has been carried out and the findings are summarized as under ;

Components	Existing Scenario 6500 TCD	Expanded Scenario 8000 TCD	Remarks / Status of Environmental Pollution Load
Air Environment			
Emission from Stack	PM : < 150 mg/NM ³	PM : < 150 mg/NM ³	No Increase
Stack and APCS	30 M. (32 TPH), 40 M. (2 Nos. for 40 TPH of 2 no. boilers each) With Wet Scrubbing System	30 M. (32 TPH), 40 M. (2 Nos. for 40 TPH of 2 no. boilers each) With Wet Scrubbing System	No Change
Boiler Fuel	Bagasse : 1300 TPD	Bagasse : 1300 TPD	No additional fuel is required as existing boiler and steam generation will fulfil the requirement after expansion also.
Steam Requirement	0.34 T / T of Cane Crushed (2210 TPD)	0.31 T / T of Cane Crushed (2480 TPD)	Steam generation capacity of MSI project is 2555 TPD (@95% efficiency of Boilers). Steam requirement will be reduced by steam saving measures / devices as detailed under ; a. Mill Motors will be used in place of Turbine for



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Components	Existing Scenario 6500 TCD	Expanded Scenario 8000 TCD	Remarks / Status of Environmental Pollution Load
			operating of Mill No. 2, 3, 4 and fibrizer b. Falling Film Evaporators are being installed for using 3 rd and 4 th vapour. c. Vertical Continuous Pan (V.C.P.) being installed which operate on 04 th vapour d. Mechanical Circulators will be installed for Pan boiling which will save Steam by reducing boiling Time
Air Pollution Load max ^m .	0.31 TPD	0.31 TPD	No Change
Water Environment			
Water Consumption			
Hot Water Requirement	2112 KLD (0.325 KL/Ton of Cane Crushed)	2600 KLD (0.325 KL/Ton of Cane Crushed)	Water requirement per quantum of cane crushing will remain same. There will be enough water available as cane contains approx. 70% water which will be used as hot water.
Cold Water Requirement	650 KLD (0.1 KL / Ton of Cane Crushed)	800 KLD (0.1 KL / Ton of Cane Crushed)	No change in cold water requirement for per ton of cane processing.
Total Water Requirement	2762 KLD (0.425 KL/T of Cane Crushed)	3360 KLD (0.42 KL/T of Cane Crushed)	Total water requirement will be reduced for per ton of cane crushing due to adoption of steam saving measures.
Total Fresh Water Consumption (Industrial + Cooling makeup)	325 KLD (0.05 KL / Ton of Cane Crushed)	400 KLD (0.05 KL / Ton of Cane Crushed)	
Waste Water Generation			
Industrial Waste Water generation	812.5 m ³ /day (0.125 KL / Ton of Cane Crushed)	976 m ³ /day (0.122 KL / Ton of Cane Crushed)	Waste water generation will be reduced due to reduction in total water requirement. Existing ETP of 1000 KLD will upgraded to 1300 KLD to cater

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Components	Existing Scenario 6500 TCD	Expanded Scenario 8000 TCD	Remarks / Status of Environmental Pollution Load
			treatment requirement after expansion also.
Water Pollution Load (Kg/Day/Ton of Cane Crushed)			
TSS	0.004	0.004	Pollutants load will almost remain unchanged and quality of treated effluent shall improve by more aeration by providing more diffusers in aeration tank. The capacity of the 1300 KLD ETP is adequate to cater the treatment of waste water generated after expansion of the unit.
TDS	0.263	0.256	
BOD	0.004	0.004	
COD	0.031	0.031	
Solid Waste Generation			
Molasses	426 TPD	524 TPD	Reused in own distillery project
Press Mud	260 TPD	320 TPD	Used as compost manure
Bagasse	1982 TPD	2440TPD	Reused as Boiler Fuel in own boilers
Boiler Ash	225 TPD	225 TPD	No Change Existing Boiler with same fuel consumption will be used. Ash will be used for Bio composting as existing practice.
Hazardous Waste Management			
Used or Spent oil (HW cat. No. 5.1) as per Schedule I	1.5 KLA	1.5 KLA	No Change
Oil & Grease Skimming (HW cat. No. 35.4) as per Schedule I	3 TPA	3 TPA	No Change

Conclusion:

Based on discussion with plant technical personnel, analysis of data provided by the unit and technical data as presented above, it is evident that there will not be any increase in pollution load in respect to air pollution & water pollution due to proposed expansion project of MSI.



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Dr. S. Prasad

EIA Coordinator (Sugar Projects)
Paramarsh Servicing Environment & Development
M.S.-1/10, Sector A, Sitapur Road Yojana
(Near St. Anthony School, Ram Ram Bank Chouraha)
Aliganj
LUCKNOW – 226021 (U.P.)

[Signature]



Project Proponent :
Sarvesh Kumar Dubey
GM - Production
M/s Majhulia Sugar Industries
P.O.: Majhulia
Dist. West Champaran – 845454
(Bihar)



Majhauria Sugar Industries

(Unit : Jay Shree Tea & Industries Ltd.)

Water Requirement ;

Sl. No.	Particulars	Capacity 6500 TCD	Capacity 8000 TCD
1	Water available in Sugar Cane.	4550 m ³ /day	5600 m ³ /day
2	Water available after accounting all losses in Bagasses, Press mud, Molasses etc.	3250 m ³ /day	4000 m ³ /day
3	Hot Water consumption at various sections of mill.	2112 m ³ /day	2600 m ³ /day
4	Excess condensate water available .	1300 m ³ /day	1600 m ³ /day
5	Cold water availability : (a) Excess condensate surplus water + (b) Fresh water from borewell .	1625 m ³ /day	1925 m ³ /day
6	Cold water consumption and losses in cooling and boiler feed water makeup.	650 m ³ /day	800 m ³ /day
7	Waste water generation .	812.5 m ³ /day	976 m ³ /day
8	Total water consumption	2762 m ³ /day	3360 m ³ /day
9	Waste water generation per tone of cane.	125 liter	122 liter
10	ETP capacity.	1000 m ³	1300 m ³
	Remarks: 1.ETP capacity is adequate for treatment of waste water even on expansion of the unit. 2. Waste water generation is within the standards (200 liter per tone of cane and shall remain unchanged.		

Existing ETP of 1000 KLD capacity will be upgraded to 1300 KLD for treatment of waste water.

* * * * *



Registered Office and Head Office: Industry House, 15th Floor, 10, Camac Street, Kolkata - 700017
Phone Nos: +91 - 33 -2282 7531/34. Fax: +91 - 33 -2282 7535

Mill: Majhauria, Dist. West Champaran, Bihar - 845454. Phone Nos: +91 -6254-282921, 282173 Fax: +91 -6254-282242
CIN: L15491WB1945PLC012771



Majhaulia Sugar Industries

(Unit : Jay Shree Tea & Industries Ltd.)

Details of Air Pollution Sources & Control Measures

No additional boiler or stack will be required for proposed expansion project. Existing 3 Nos. Boiler of 32 TPH, 40 TPH & 40 TPH will fulfill the steam requirement of sugar mill after expansion. Details of Emission load of existing boiler is shown as under ;

Components	Unit	32 TPH Boiler	40 TPH Boiler	40 TPH Boiler
Stack Dia	m.	1.55	2.55	2.5
Ambient temp.	0C	25	25	25
Stack Gas Temp.	0C	100	100	100
Velocity	m/sec.	8	8	8
Pressure	mm Hg.	720	720	720
Vol. Flow Rate	m ³ /hr.	15.0877	40.8357	39.25
Vol. Flow Rate	NM ³ /hr.	41110.42	111267.6	106947
Vol. Flow Rate	NM ³ /Day	986650	2670423	2566727
Emission Load	Kg/Day	49.3325	133.5212	128.3364
	T/Day	0.049332	0.133521	0.128336
Toal Emission Load	0.31 TPD			

Each boiler stack has been equipped with Wet Scrubber to minimize and control emission within the standards of 150 mg/NM³.



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