ENVIRONMENTAL CLEARANCE

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive, and Virtuous Environmental Single-Window Hub)

Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment Authority(SEIAA), Maharashtra)

To,

The Managing Director
BHIMA SHANKAR SAHAKARI SAKHAR KARKHANA LIMITED
Dattatrayanagar, P.O. Pargoan via Awasari, Taluka: Ambegaon, Dist. Pune-410406 -410406

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/MH/THE/70064/2011 dated 16 Dec 2021. The particulars of the environmental clearance granted to the project are as below.

1.	**EC Identification No.**	**EC22B004MH126409**
2.	**File No.**	SIA/MH/THE/70064/2011
3.	**Project Type**	Expansion
4.	**Category**	B1
5.	**Project/Activity including Schedule No.**	1(d) Thermal Power Plants
6.	**Name of Project**	Proposed Expansion of Co-generation Plant from 19MW to 29MW at Dattatraynagar, A/P Pargaon Via Awasari Bk., Tal. Ambegaon, Dist. Pune by M/s Bhimashankar Sahakari Sakhar Karkhana Ltd.
7.	**Name of Company/Organization**	BHIMA SHANKAR SAHAKARI SAKHAR KARKHANA LIMITED
8.	**Location of Project**	Maharashtra
9.	**TOR Date**	22 Jun 2011

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 21/04/2022

(e-signed)
Manisha Patankar Mhaiskar
Member Secretary
SEIAA - (Maharashtra)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH.Please quote identification number in all future correspondence.

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STATE LEVEL ENVIRONMENT IMPACT ASSESSMENT AUTHORITY

No. SIA/MH/THE/70064/2011
Environment & Climate Change
Department
Room No. 217, 2nd Floor,
Mantralaya, Mumbai- 400032.

To
M/s Bhimashankar Sahakari Sakhar Karkhana Ltd.,
Dattatraynagar, A/P Pargaon Via Awasari Bk.,
Tal. Ambegaon, Dist. Pune

Subject : Environmental Clearance for Proposed Expansion of Co-generation Plant from 19MW to 29MW at Dattatraynagar, A/P Pargaon Via Awasari Bk., Tal. Ambegaon, Dist. Pune by M/s Bhimashankar Sahakari Sakhar Karkhana Ltd.

Reference : Application no. SIA/MH/THE/70064/2011

This has reference to your communication on the above-mentioned subject. The proposal was considered by the SEAC-1 in its 205th and 216th meeting under screening category 1 (d) as per EIA Notification, 2006 and recommend to SEIAA. Proposal then considered in 239th (Day-2) meeting of State Level Environment Impact Assessment Authority (SEIAA).

2. Brief Information of the project submitted by you is as below:-

1.Name of Project	Proposed Expansion of Co-generation Plant from 19MW to 29MW at M/s Bhimashankar Sahakari Sakhar Karkhana Ltd. Dattatraynagar, A/P Pargaon Via Awasari Bk., Tal. Ambegaon, Dist. Pune – 412406
2.Type of institution	Private
3.Name of Project Proponent	M/s Bhimashankar Sahakari Sakhar Karkhana Ltd.
4.Name of Consultant	M/s Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	NA
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance	EC obtained for vide Letter "SEAC-2011/CR-755/TC2" dated 30th June 2012.

has been obtained for existing project	
8.Location of the project	S.no 148, 202,206,207,208,210,213,214,219,220
9.Taluka	Ambegaon
10.Village	A/P Pargaon Tarfe Awasari Bk
Correspondence Name:	Mr. Chandrakant Gangadhar Dhage (Managing Director)
Room Number:	-
Floor:	-
Building Name:	Administrative Office
Road/Street Name:	Manchar-Shirur Road
Locality:	Dattatrayanagar,
City:	Village –A/P Pargaon Tarfe Awasari Bk
11.Whether in Corporation /Municipal / other area	Grampanchyat- Pargaon Tarfe Awasari Bk.
12.IOD/IOA/Concession/ Plan Approval Number	Non agricultural permission
	IOD/IOA/Concession/Plan Approval Number: Land NA (industrial) S.no 148, 202,206,207,208,210,213,214,219,220
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	L.I 675/SIA/IMO/2019 dated 12/04/2019
15.Total Plot Area (sq. m.)	580000 Sq.m
16.Deductions	NA
17.Net Plot area	580000Sq.m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** NA
	Approved Non FSI area (sq. m.): NA
	Date of Approval: 21-02-2000
19.Total ground coverage (m2)	5341.5
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0.92

21.Estimated cost of the project	414200000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	NA	NA	NA

23.Number of tenants and shops	Not applicable
24.Number of expected residents /users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details				
Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Sugar	18000	0	18000
2	Power MW	19	10	29

32.Total Water Requirement		
Dry season:	Source of water	Ghod River
	Fresh water (CMD):	542.2
	Recycled water - Flushing (CMD):	0
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	542.2
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	Source of water	Not applicable
	Fresh water (CMD):	Not applicable
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable

	Total Water Requirement (CMD) :	Not applicable
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable	

33.Details of Total water consumed

Particulars	**Consumption (CMD)**			**Loss (CMD)**			**Effluent (CMD)**		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Industrial Process	325.20	169.20	494.40	130.80	63.60	194.40	194.40	105.6	300
Cooling tower & thermopack	2416	2432	2448	2400	2400	4800	16	32	48
Fresh water requirement	341.2	201.20	542.20	130.80	63.60	194.40	210.40	137.60	348

34.Rain Water Harvesting (RWH)	**Level of the Groundwater table:**	5-10m BGL
	Size and no of RWH tank(s) and Quantity:	2040m3 x 1 No
	Location of the RWH tank(s):	near Guest house
	Quantity of recharge pits:	20
	Size of recharge pits	1m x 1m x 1.5m

	:	
	Budgetary allocation (Capital cost) :	20 lakh
	Budgetary allocation (O & M cost) :	2.5 lakh
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	South to North
	Quantity of storm water:	4.5 m3/min
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	40
	STP technology:	NA
	Capacity of STP (CMD):	NA
	Location & area of the STP:	NA
	Budgetary allocation (Capital cost):	NA
	Budgetary allocation (O & M cost):	NA
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Not Any
	Disposal of the construction waste debris:	Not Any
Waste generation in the operation	**Dry waste:**	Ash 52.2TPD
	Wet waste:	ETP sludge : 24 TP/M
	Hazardous waste:	Spent oil : 0.55 MT /M
	Biomedical waste (If	NA

Phase:	**applicable):**	
	STP Sludge (Dry sludge):	0.5 MT/D
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Ash will be sold to Brick Manufacturer
	Wet waste:	Composting and used as soil conditioner
	Hazardous waste:	spent oil burned in Boiler
	Biomedical waste (If applicable):	NOt any
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	NA
	Area for the storage of waste & other material:	NA
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10.00 Lakh
	O & M cost:	5.0 Lakh

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	5.5	6.7	6.5-8.5
2	BOD	mg/lit	720	80	100
3	COD	mg/l	1500	230	250
4	TSS	Mg/l	120	80	100
5	O & G	Mg/l	6	<2	10

Amount of effluent generation(CMD):	348
Capacity of the ETP:	Existing ETP Capacity of 1350m3/day is adequate for proposed Co-generation.
Amount of treated effluent recycled :	NA
Amount of water send to the CETP:	NA

Membership of CETP (if require):	NA
Note on ETP technology to be used	Waste water from a co-gen power plant does not have any significant BOD / COD level. Effluent water sources are boiler & auxiliary cooling tower, blow down, washings, service water, etc. The same will be neutralized and settled in a neutralizing pit. The neutralized effluent will be further treated in the existing ETPand then utilized for ash quenching and gardening of the green belt.
Disposal of the ETP sludge	Used as manure

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/ spent oil	5.1	MT/M	0.35	0.20	0.55	Reuse in Boiler

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Existing boiler of 80 TPH	32 TPH	1	72	3	136
2	Existing boiler of 2 x 37 TPH up gradation to2 x45 TPH	15.22 TPH	1	60	2.5	140
3	Proposed 2 x 45 TPH	40.80 TPH	1	60	4	140

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Baggase	1133.70	638.90	1772.60
41.Source of Fuel		Baggase from own sugar unit		
42.Mode of Transportation of fuel to site		Convener Belt		

43.Green Belt Development	**Total RG area :**	195000Sq.m
	No of trees to be cut:	0
	Number of trees tobe planted :	5000
	List of proposed native trees :	NA

	Timeline for competion of plantation :	plantation will be completed within 2 years

44.Number and list of trees species to be planted in the ground

Serial Number	Name of the plant	Common Name	Quantity	Characteristics & ecological importance
1	aca asoca (Roxb.) Willd.	Ashok	750	Small evergreen tree with deep green leaves • The bark of the Ashoka plant is used to prepare cosmetics that help to improve skin complexion
2	Aegle marmelos (L.) Corr.	Bel	500	It is a deciduous plant Used as dietary supplement
3	Limonia acidissima L.	Kavath	500	Large tree growing to 9m tall, with rough, spiny bark. & The fruit is used to make a fruit juice with astringent properties and jams
4	irachta indica Linn.	Neem	1000	Fast growing evergreen tree • Used for skin diseases. • Neem oil is used to treat for healthy hair, to improve liver function & balance blood sugar level
5	Pongamia pinnata (L.) Pierre	Karanj	250	Legume tree • Flowering tree • Used as oil, soap making, & as lubricant
6	Syzygium cumini (L.) Skeels	Jambhul	500	Evergreen tropical fruit bearing tree • Fruits & seeds are used in Hyperglycemia in diabetic rates.
7	Mangifera indica L.	Amba	1500	Fruit bearing tree
45.Total quantity of plants on ground				

46.Number and list of shrubs and bushes species to be planted in the podium RG:

Serial	Name	C/C Distance	Area m2

Number			
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Power Plant & MSEDCL
	During Construction Phase: (Demand Load)	Not any
	DG set as Power back-up during construction phase	Existing
	During Operation phase (Connected load):	7MW
	During Operation phase (Demand load):	7mW
	Transformer:	220/132 KV
	DG set as Power back-up during operation phase:	500 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	Not any

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %

1	N A	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
80 TPH Boiler	ESP and 72 M stack Height	-
Existing boiler of 2 x 37 TPH up gradati onto2 x45 TPH	Wet Scrubber to each with 60 M stack Height	-

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	0
	O & M cost:	0

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Ambient Air	AAQ Monitoring	0.25
2	Noise	Noise level monitoring	0.15
3	Water	Drinking water for workers	0.50

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Air Environment	ESP and 72 M stack Height for 80 TPH and Wet Scrubber to each with 60 M stack Height for 45 TPH Boiler	0	5
2	Water and waste water	Existing ETP having capacity 1350 M3/day	0	5

3	Solid Waste	Solid and Hazardous Waste Disposal & Transportation	10.0	5
4	Green Belt development	Greening Belt Development	20.0	5.0
5	Environment Monitoirng	EM Cell -Existing	0	4.05
6	Other	Rain water harvesting, Safety, Security etc.	20.0	2.5

51.Storage of chemicals (inflamable/explosive/hazardous/toxicsubstances)

Description	Status	Location	Storage Capacity in MT	Maximum Quantity of Storage at any point of time in MT	Consumption / Month in MT	Source of Supply	Means of transportation
NA	NA	NA	NA	0	NA	NA	-

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Pargaon Shingave – Kavathe Road
	Number and area of basement:	NA
	Number and area of podia:	NA
	Total Parking area:	2.0
	Area per car:	NA
	Area per car:	NA
	Number of 2-	

Parking details:	**Wheelers as approved by competent authority:**	NA
	Number of 4-Wheelers as approved by competent authority:	NA
	Public Transport:	NA
	Width of all Internal roads (m):	6 m and 9 m turning radius
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	1(d) B
	Court cases pendingif any	NA
	Other Relevant Information s	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

3. The proposal has been considered by SEIAA in its 239th (Day-2) meeting and decided to accord Environment Clearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implantation of following terms and conditions-

Specific Conditions:

SEAC Conditions-

1. PP to provide adequate air pollution control equipment's to mitigate the issues related to the emissions and particulate matter.
2. PP to ensure that the entire CER fund are spent before the commissioning of the manufacturing activity in consultation with the District Collector
3. PP to complete green belt development with the provision of drip irrigation before the commissioning of the manufacturing activity.
4. PP to complete rain water harvesting facility before the commissioning of the manufacturing activity
5. PP to carry out physiochemical analysis of the ETP sludge proposed to be used as manure and obtain approval from the competent Authority so as to ensure its safe use on agricultural land/ garden

SEIAA Conditions

1. PP submitted ADTP plan dated 13.01.2000. As per the said plan total plot area of the project is 2,82,300 sqm. PP has provided 1,39,720 sqm as Plantation (50%). PP to densify said Plantation area / Green belt of 50 % within 6 months of grnat of EC.
2. PP to undertake Miyawaki plantation of native and indigenous trees such as Banyan, Peeple, Neem, Jamun and other suitable trees as per the Forest Department, Govt. of Maharashtra circular no SaVaVi-2019/C.R.3/F-11, dated 25th June, 2019. The said plantation to be completed in the first year of operation of Environmental Clearance under expert guidance of Miyawaki experts / arborist.
3. PP to strictly observe the Solid Waste Management Rules, 2016 as amended time to time.
4. PP to strictly observe the Hazardous and Other Wastes (Management & Trans boundary Movement) Rules, 2016 as amended time to time.
5. PP to identify all sources of fugitive air pollution on site and provide pollution control measures to mitigate pollution and meet the standard parameters stipulated in the Environment (Protection) Rules, 1986 amended time to time & Air (Prevention and Control of Pollution) Act, 1981 amended time to time.
6. PP to ensure storage of chemicals as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 amended time to time to ensure no release of any chemical to the atmosphere and leakage to the soil.
7. PP to ensure transport, storage, handling and use of the flammable/toxic chemicals as per conditions stipulated in license/approval of the Petroleum & Explosive Safety Organization (PESO).
8. PP to obtain approval and License from the Directorate of Industrial Health & Safety (DIHS) for proposed project and implement all condition stipulated therein. PP to carry out Safety Audit as stipulated in the Maharashtra Factories Rules, 1963 and ensure compliance of recommendation of the Audit.
9. PP to provide solar energy for illumination of Administrative Building, Street Lights and parking Area.
10. PP to ensure use of briquette /bio coal/ pellets/ or any such suitable product derived from scientific processing of appropriate stream of dry waste/agricultural waste , not less than 50 % of the total fuel requirement to the boiler.
11. PP to provide roof top Rain Water Harvesting facility.

General Conditions:

I. The project proponent shall advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the Marathi language of the local concerned within seven days of issue of this letter, informing that the project has

been accorded Environmental Clearance and copies of Environmental Clearance letter are available with the Maharashtra Pollution Control Board, website of the company and may also be seen at Website at http://parivesh.nic.in

II. The project Proponent shall upload the status of compliance (soft copies) of the conditions stipulated Environmental Clearance letter including monitoring data of air, water, soil, noise etc. on their website and shall update the same periodically. The half yearly compliance report shall simultaneously be submitted to the Maharashtra Pollution Controls Board, SEIAA and the Regional Office off MoEF&CC at Nagpur, on 1st June & 1sr December of each calendar year.

III. Separate fund shall be allocated for the implementation of Environmental Management Plan along with item wise break up and specific time line for its completion. The cost shall be included as part of the project cost. The funds earmarked for the environmental protection measures shall not be diverted for other purpose and year-wise expenditure should be reported to the MPCB and the SEIAA.

IV. A separate Environmental Management Cell with qualified personnel shall be set up for implementation of the stipulated environmental safeguards.

V. In the event of failure of any pollution control equipment, the manufacturing activity shall be immediately stopped safely till the effective functioning of pollution control equipment's is regained.

VI. PP to strictly follow conditions stipulated in the Consent to Establish/Operate issued by the Maharashtra Pollution Control Board.

VII. PP to provide separate drains for storm water and effluent, and ensure that, the storm water drains are dry all the time and in no case the effluent shall mix with the storm water drain.

VIII. Periodic Monitoring of ground water in the study area as marked in the Environmental Impact Assessment Report shall be undertaken and results analysed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.

IX. The overall noise levels in and around the factory premises shall be kept within the prescribed standard under the Environment (Protection) Act, 1986 and Rule, 1989 as amended from time to time by providing adequate noise control measures and protective equipment's like ear muff and ear plug etc.

X. Adequate safety measures shall be ensured to limit the risk zone within the factory premises. Leak detection system shall be installed for early detection and mitigation purpose.

XI. PP to scrupulously follow the requirements of Maharashtra Factories Act, 1948 & Rules 1963 as amended from time to time.

XII. The Environmental Statement for each financial year ending on 31st March in Form-V as is mandated to be submitted by the Project Proponent to the concerned Pollution Control Board as prescribed under the Environment (Protection) Rule, 1989 as amended from time to time, it shall also be put on the website of the company along with the status of the compliance of the conditions stipulated in the Environmental Clearance letter.

4. The environmental clearance is being issued without prejudice to the action initiated under EP Act or any court case pending in the court of law and it does not mean that project proponent has not violated any environmental laws in the past and whatever decision under EP Act or of the Hon'ble court will be binding on the project proponent. Hence this clearance does not give immunity to the

project proponent in the case filed against him, if any or action initiated under EP Act.

5. In case of submission of false document and non-compliance of stipulated conditions, Authority/ Environment Department will revoke or suspend the Environment clearance without any intimation and initiate appropriate legal action under Environmental Protection Act, 1986.

6. The Environment department reserves the right to add any stringent condition or to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the department or for that matter, for any other administrative reason.

7. Validity of Environment Clearance: The environmental clearance accorded shall be valid as per EIA Notification, 2006, amended time to time.

8. In case of any deviation or alteration in the project proposed from those submitted to this department for clearance, a fresh reference should be made to the department to assess the adequacy of the condition(s) imposed and to incorporate additional environmental protection measures required, if any.

9. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management and Handling) Rules, 1989 and its amendments, the public Liability Insurance Act, 1991 and its amendments.

10. Any appeal against this Environment clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1st Floor, D-Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

Manisha Patankar-Mhaiskar
(Member Secretary, SEIAA) 20/4/2022

Copy to:

1. Chairman, SEIAA (Maharashtra), Mumbai.
2. Secretary, MoEF & CC
3. IA- Division MOEF & CC
4. Member Secretary, Maharashtra Pollution Control Board, Mumbai.
5. Regional Office MoEF & CC, Nagpur
6. District Collector, Pune.
7. Regional Officer, Maharashtra Pollution Control Board, Pune.

Signature Not Verified
Digitally signed by Manisha Patankar Mhaiskar
Member Secretary
Date: 4/21/2022 6:12:02 AM