## Government of Maharashtra

SEAC-2019/CR-534TC-2 Environment department Room No. 217, 2nd floor, Mantralaya Annexe, Mumbai- 400 032. Dated: 11th December, 2014

M/s. Shree Tatyasaheb Kore Warana Sahakari Sakhar Karkhana Ltd. At village Warananagar, Kodoli Tal Panhala, Dist Kolhapur

Environment clearance to M/s. Shree Tatyasaheb Kore Warana Sahakari Sakhar Subject: Karkhana Ltd. at Gat no. 1101/1, 1102, 1103, 1114, 1116 & 1162 Warananagar, Kodoli Tal Panhala, Dist Kolhapur.

Sir,

This has reference to your communication on the above mentioned subject. The proposal was considered as per the EIA Notification, 2006, by the State Level Expert Appraisal Committee-I, Maharashtra in its 82<sup>nd</sup> meeting and decided to recommend the project for prior environmental clearance to SEIAA. Information submitted by you has been considered by State Level Environment Impact Assessment Authority in its 76th meeting.

It is noted that the proposal is for grant of Environmental Clearance to M/s. Shree Tatyasaheb Kore Warana Sahakari Sakhar Karkhana Ltd. at Gat no. 1101/1, 1102, 1103, 1114, 1116 & 1162 Warananagar, Kodoli Tal Panhala, Dist Kolhapur. SEAC-I considered the project under screening category 5(j), B1 of EIA Notification 2006.

Brief Information of the project submitted by Project Proponent is as:

Brief Information of t	he project submitted	1 Dy Troject X2	bakari Sakhar	Karkhana Ltd.
Name of the Project	Shree Tatyasaneo	2 1103.1114.11	16 & 1162, A	/P.: Warananagar,
	Tol . Panhala Dist.	: Kolhapur (Ma	Harasina	Tr. Comments
Project Proponent	Chai V S Chayan	(Managing Dire	ector)	
Consultant	M/s. Equinox Envi	ronments (1) PV	ugar factory f	or enhancement of
New Project / Expansion in existing	'Capacity Utilization production capacity implementation of	on' of existing s I from 5000 TC In new 500 TPD	D to 10000 T sugar refiner	CD and y plant
Modernization/Diversi				
fication-in exiting		An a said	CHETA Motif	ication No. S.O.
project Activity schedule in the EIA Notification	Item No.: 5(j) as pe 1533 (E)" dated 14 proposed project co			nber 01, 2009, the
		Existing	Proposed	Total
Area Details	Description	EVISIUE	F	<b>建筑</b>

		ca 19.14 F	In.	1.53 Ha	20.67	Ha	]
	Total Indus. Ar			0.19 Ha	8.73 F	Ia	
	Total Built - up	8.54 Ha	ı	0.19114	•		
	Area Under Ros	nds 5.3 Ha		0.46	5.76 F	Ia	1
A.	Open Space	5.3 Ha		0.88	6.18 F	la	-
	Green Belt	18.94 H		4.0 Ha	22.94	<del></del>	
TOR Issued	During 40th meeting	ng of SEAC d	irect	ed to cond	uct Public	Heari	ng.
Estimated capital cost	Sugar Factory				Ks. 102.7	4 (1.	
of the Project	Sugar Refinery				Rs. 43.0		
(including cost for land, building, plant and machinery	Total				Rs. 205.7	4 Cr.	· .
separately)  Location details of the	Latitude				16°51'51	99 N	
project				71	74°11'42		
project	Longitude				Warnana		Sec. 35
	Location		1.		600 m	gar.	
	Elevation above M	ean Sea Leve	el (m	eters)	000 m		
Raw materials (including process chemicals, catalysts, & additives).	Industrial unit	List of raw materials	(M	iantity IT/ onth)	Source of materials		
addin vosj.		to be					
	Proposed	Sugarcan	1,	50,000	Nearby		
	Capacity	е	1		farms		
	Utilisation of	Sulphur	60				
	Sugar Unit (5000	Lime	1		From O	ut	
	to 10,000 TCD)	Oil &	10		Side par	ties	
		Grease					4
	Sugar Refinery (500 TPD)	Raw Sugar	15	,000	From O Sugar Factory		
roduction details		Name of		Quantity	,		
		Products, E		MT/M			
	Industrial unit	products an		Existing		_	ans
		Products		i i		ion	
		Sugar	-	14000 N	AT/M	22,0	000
		By Product				,	
	Sugar Unit	Molasses		4500 M	T/M	6,00	70
	Stigar Offic	Bagasse		33,600 1		1.	800
		Press Mud		4500 M	T/M	5,1	25
		Refined				15	000
NEW COLUMN TO THE REAL PROPERTY OF THE PERSON OF THE PERSO	and the second s	C	Sugar			13,	300
	Curar Dafinary				_		- X-
	Sugar Refinery (500 TPD)	By Product Refined		-			

Rain Water Harvesting (RWH)	Rain water of 17,800 M <sup>3</sup> /Yr from roof top harvesting and 22,266 M <sup>3</sup> /Yr from surface harvesting would be diverted and charged through gutters into proposed bore wells and rain water harvesting tanks. Total water becoming available is to the tune of 40,066 M <sup>3</sup> /Yr							
Total Water	Total water requi	rement:						
Requirement		Fresh water (CMD) & Source  Total Water requirement for Sugar Factory and Refinery activities is 2935 M³ / Day. Out of which 725 M³ / Day would be the fresh water from river and remaining 2210 condensate water. Source –River Warana						
Training the state of the state	Condensate water	r (CMD)	: 2210 M <sup>3</sup> / Day					
	Use of the total w	vater (CMD):	8699.5 M <sup>3</sup> / Day	7				
Marie and Marie and Marie	The second second	Sugar unit	Refinery	Total	į.			
	Process	*1360	500 (100 + *400)	1860 (1760 * + 100)				
	Cooling	410	10	420				
	Boiler feed	100	*450	550 (450* + 100)				
The second second second	Washing & lab	65	40	105				
	Domestic		- 176		4			
	Total	1935 (*1360 + 575)	1000 (150 + *850)	2935 (2210* + 725)				
and the second of the second o	Note:- * Condens			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
Natural water drainage p	thro prer in th infil	m water collection ugh closed RCC p mises. The storm water ne premises of ind tration it enriches	pipeline has been vater is discharge ustry and through the ground wate	provided in t ed at lowest p n percolation r table.	he oint			
Quantity of storm water		out 22266 M <sup>3</sup> /Yea		be generated	in the second			
Size of SWD		ng monsoon seaso		v the Industr	ν,			
Amount of sewage gener		re would not be g						
(CMD)		n activities under						
		nery			1			
Amount of effluent gene (CMD)		M <sup>3</sup> / Day (500 M ory activities & 1		-				
Capacity of the ETP (CM	terti prop M <sup>3</sup> be f	e present ETP con ary treatment unit posed activity like / Day & refinery to forwarded to exist raded.	s. Effluent gener sugar factory to the tune of 150	rated from the tune of 5 ) M <sup>3</sup> / Day sh	00 all			

Sr.	Solid waste	Source	Qty (TPM)	Form (Sludge/ Dry/ Slury etc.)
1.	Capacity Utilization of Sugar Factory	Boiler Ash	90 MT/Day 20 MT/M	Dry Sludge
2.	Sugar Refinery	sludgo Boiler Ash	9.6 MT/Dny	Dry TP studge is used as manur

Boiler Ash is sold to farmers for use as manure in fields. ETP sludge is used as manure in own premises

Hazardous waste details:

-	The transfer de title to	
Sr.	Type & Category of Hazardous Waste	Quantity
1	Capacity Utilization of Sugar Factory	Cat. No. 5.1 and 5.2 Used /Waste Oil

If waste(s) contain any hazardous / toxic substance / radioactive materials or heavy metals, provide quantity, disposal data and proposed precautionary measures Disposal Method - The Hazardous Waste generated under Cat. No. 5.1 would be sold to authorized re-processor.

r.	Source of Emission		Pollu	tant	Concentra gas(g/m³)	tion in	fluc	
1.	Boiler		SPM	Action to Ministra	93.39			
1			SO <sub>2</sub> (	mg/Nm³)	16.2			
Sr.		Daily Co	nsump	tion	Calorific			11
No	Fuel	Existing		Proposed	value (Kcals /kg)	Ash %	Sulphur %	
1.	Bagasse	1272 MT Day (Sug Factory)		360 MT /Day (Sugar Refinery)	2500 kcal/Kg	2%	0.03%	

Power supply: The entire electricity required for Warana campus shall be taken from the 44 MW Co-gen.

Existing power requirement

Sr. No.	Description	Consumption
1.	Sugar Factory	7 MW
2.	For ESP	20 KW
3.	For ETP	12 KW
4.	For Bio-Gas	12 KW
5.	For Evaporation Plant	20 KW

Proposed power requirement:

No.	Description	On Season(MW)	Off Season (MW)
a.	Power Generation	39.45	44
Ь.	Power Consumption		
	Sugar Factory	8.33	0.35
	Cogeneration Auxiliaries	4.40	4.40
	Distillery Division	0.81	0.81
1	Colony	0.60	0.60

	Pulp - Ligno Sulphonate plant	0.25	0.25
	Refined Sugar	0.90	0.90
C.	Power Export	24.16	36.69

Green belt area (Sq. m.)

Number and species of trees to be planted
Number, size, age and
species of trees to be cut, trees to be transplanted

Existing Area: 18,94 Ha Proposed Area: 4.0 Ha For Existing: 12,091 Nos. For Proposed: 2000 Nos.

	tion Contr	ol Measures :	
Sr.	Aspect	Existing pollution control system	Proposed to be installed
1.	Air	In the existing sugar factory, the	The steam required for capacity
1		boilers are provided with the	utilization activities shall be taken
		Electro Static Precipitator (3 Nos.)	from the boilers in existing unit.
		as APC equipment with stack of	Moreover, the proposed boiler in
,		adequate height. Moreover, The	sugar refinery shall be provided
		DG set is provided with	with wet scrubber as APC
		appropriate stack height of 45M	equipment with appropriate stack
			height.
2.	Water	The trade effluents from existing	The effluent from proposed sugar
	1.2	unit are treated in an ETP	factory capacity utilization and
		provided at the site.	sugar refinery shall be treated in
		The present ETP comprises of Oil	existing ETP which has been duly
- 3		& Grease Chamber, Equalization	upgraded. For domestic effluent
1	7 - 11	Tank, Bio-Digester, Primary	in existing unit STP shall be
	the stage	Clarifier, Aeration Tank,	provided.
		Secondary Clarifier, Treated	
		Water Sump and Sludge Drying	
	4 9	Beds, Pressure Sand and	
		Activated Carbon Filter.	
		The domestic effluent is treated in	
		septic tank followed by soak pits	
		in decentralised manner and the	
		over flow is used for gardening.	
3.	Noise	The methodologies of isolation &	Same practice as that under
		separation, covering, insulation	existing operations shall be
	1	etc. are adopted in existing unit.	observed.
1		Moreover the workers are	
		provided with Personal Protective	
		Equipments (PPE).	
4.	Solid	Under existing activity the from	Solid Waste in the form of Boiler
	Waste	sugar factory, the solid waste in	Ash to the time of 118.8 MT/Day
	jo i	form of boiler ash and ETP sludge	(From Sugar 90 MT/Day + From
	100	is generated which are to the tune	Refinery 9.6 MT/D) and ETP
	174 -	of 4 MT/day and 500 MT/M	Sludge to the tune of 20 MT/M
		respectively. Boiler Ash is used in	would be generated. Boiler Ash
		Spentwash composting and ETP	would be used in Spentwash
	(C) (C)	Sludge is used as manure in own	composting / supplied to farmers
		factory premises.	for use as manure. ETP Sludge
177			would be used as manure in own

Environmental Management Plan; Capital cost (With break up): Rs. 2 Co-gen & Sugar Refinery Plant). C	uspate to		- Factory, Di	stillery, Bagasse Pulpin		
Capital cost (With break up): Rs. 2	.73:	3 Lakhs (For	Sugar Pacioly, 2	82 Lakhs		
Capital cost (With break up): Rs. 2 Co-gen & Sugar Refinery Plant), C	2 (	. M cost (With	COST COMPON	IPNT IN RS.		
Мона и при при при при при при при при при п	A CONTRACTOR OF THE PARTY OF TH		49 4	IDITA ALLES		
DECOMPOSE			LAKHS	O & M PER		
DESCRIPTION			CAPITAL			
			CAPIAL	YEAR		
The Sugar Factory Unit	desires	District Street, or other designations of the st	a single of the same and the same			
Air Pollution Control Equipment	11	DCA &	Rs. 735	Rs. 60		
CHOKS .	(///	(C) (C	1307 72-			
Effluent Treatment Plant (ETP)	Additional		Rs. 150	Rs. 15		
Thoise Pollution Control	hotomas	All the first of the design was recorded and record	Rs. 10	Rs. 2		
Environmental Monitoring	-		Rs. 10	Rs. 5		
Orcen Belt Development			Rs. 60	Rs. 10		
Occupational Health and Safara			Rs. 20	Rs. 3		
The Distillery Unit				1/25. 3		
Bio-methanation Plant for Spent v	was	sh Digestion	Rs. 700	Rs. 34		
			Rs. 800	Rs. 20		
		•	103. 000	RS. 20		
11 Spent with Dio-Composting I co			Rs. 220	Rs. 30		
Land Land William Programmer Disease	<u>i &amp;</u>	Equipment		1/2. 50		
- "Susse I till illo I init			~ J			
Lignosulphonate Plant Infrastruct	ture	which	Rs. 30	Rs. 3		
converts the liquid wastes from publick liquor) in to powder	ulp	ing (i.e.	Contraction of the contraction o	10.5		
Total						
Period of data collected	T.,	1 0010	Rs. 2735	Rs. 182		
Details of the primary data	++	March 2012	2 to May 2012			
collection (i.e. location of the	[.]	A lah appro	n Services; Pune; F	Environmental & Safety.		
sample collection, number of received ac			ved by MoEF; New	v Delhi which has		
visit, etc)		14001:2004	ccreditations namely ISO 9001: 2008, ISO 4, OSHAS 18000:2007			
Details of the secondary data	:	India Metrol	logical Department	ti Card 27		
collection (i.e. Source and year	$\mathbb{F}_{\mathbb{F}^2}$					
of data)		- CAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	ical lanies of these			
		District Cen	isus Handbook pub	nvatories in India dished by Census of India		
Date of the public hearing	+-1	09.01.2013	ndia – Dehradun an	d Hyderabad.		
Date of the paone nearing	لنا	C107.1012				

3. The proposal has been considered by SEIAA in its 76<sup>th</sup> meeting decided to accordenvironmental clearance to the said project under the provisions of Environment Impac Assessment Notification, 2006 subject to implementation of the following terms and conditions:

(i) No additional land shall be used /acquired for any activity of the project without obtaining proper permission.

(ii) For controlling fugitive natural dust, regular sprinkling of water & wind shields at appropriate distances in vulnerable areas of the plant shall be ensured.

(iii) Regular monitoring of the air quality, including SPM & SO2 levels both in work zone and ambient air shall be carried out in and around the power plant and records shall be maintained. The location of monitoring stations and frequency of monitoring shall be decided in consultation with Maharashtra Pollution Control Board (MPCB) & submit (iv)

Necessary arrangement shall be made to adequate safety and ventilation arrangement

(v) Proper Housekeeping programmes shall be implemented.

(vi) In the event of the failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieve.

(vii) A stack of adequate height based on DG set capacity shall be provided for control and

dispersion of pollutant from DG set.(If applicable)

(viii) A detailed scheme for rainwater harvesting shall be prepared and implemented to recharge ground water.

(ix)Arrangement shall be made that effluent and storm water does not get mixed.

- (x) Periodic monitoring of ground water shall be undertaken and results analyzed to ascertain any change in the quality of water. Results shall be regularly submitted to the Maharashtra Pollution Control Board.
- (xi) Leq of Noise level shall be maintained as per standards. For people working in the high noise area, requisite personal protective equipment like earplugs etc. shall be provided.
- (xii) The overall noise levels in and around the plant are 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 shall confirm to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989.
- Green belt shall be developed & maintained around the plant periphery. Green Belt (xiii) Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.
- (xiv) Adequate safety measures shall be provided to limit the risk zone within the plant boundary, in case of an accident. Leak detection devices shall also be installed at strategic places for early detection and warning.
- Occupational health surveillance of the workers shall be done on a regular basis and (xv)record maintained as per Factories Act.
- (xvi) The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.
- (xvii) The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Waste (Management and Handling) Rules, 2003 (amended). Authorization from the MPCB shall be obtained for collections/treatment/storage/disposal of hazardous wastes.
- (xviii) The company shall undertake following Waste Minimization Measures:
  - Metering of quantities of active ingredients to minimize waste.
  - •Reuse of by- products from the process as raw materials or as raw material substitutes in other process.
  - Maximizing Recoveries.
  - · Use of automated material transfer system to minimize spillage.
- (xix)Regular mock drills for the on-site emergency management plan shall be carried out. Implementation of changes / improvements required, if any, in the on-site management plan shall be ensured.
- A separate environment management cell with qualified staff shall be set up for (xx)implementation of the stipulated environmental safeguards.

Transportation of ash will be through closed containers and all measures should be taken to prevent spilling of the ash

(xxii) Separate siles will be provided for collecting and storing bottom ash and fly ash.

(xxiii) Separate funds shall be allocated for implementation of environmental protection measures/BMD along with the state of measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project one. The final state of the project one. the project cost. The funds carmarked for the environment protection measures shall not be diverted for attention measures. not be diverted for other purposes and year-wise expenditure should reported to the MPCB & this department

(xxiv) The project management 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 clearance letter are available with the Maharashtra Pollution Control Board and may also be seen at Website at http://ec.mnharashtra.gov.in

(XXV) Project management should submit half yearly compliance reports in respect of the stipulated prior environment clearance terms and conditions in hard & soft copies to the MPCB & this department, on 1st June & 1st December of each calendar year.

(xxvi) A copy of the clearance letter shall be sent by proponent to the concerned Municipal Corporation and the local NGO, if any, from whom suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the Company by the proponent.

(xxvii) The proponent shall upload the status of compliance of the stipulated EC conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; SPM, RSPM. SO2, NOx (ambient levels as well as stack emissions) or critical sectorai parameters, indicated for the project shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.

(xxviii)The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and the SPCB.

- (xxix) The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.
- 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.
- The Environment department reserves the right 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.
- Validity of Environment Clearance: The environmental clearance accorded shall be valid for a period of 5 years to start of production operations.

- 7. 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.
- 8. 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.
- 9. Any appeal against this environmental clearance shall lie with the National Green Tribunal (Western Zone Bench, Pune), New Administrative Building, 1<sup>st</sup> Floor, D-, Wing, Opposite Council Hall, Pune, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.
- 10. This Environment Clearance is issued to M/s. Shree Tatyasaheb Kore Warana Sahakari Sakhar Karkhana Ltd. at Gat no. 1101/1, 1102, 1103, 1114, 1116 & 1162 Warananagar, Kodoli Tal Panhala, Dist Kolhapur.

(Medha Gadgil)
Additional Chief Secretary,
Environment department &
MS, SEIAA

## Copy to:

- 1. Shri. R. C. Joshi, IAS (Retd.), Chairman, SEIAA, Flat No. 26, Belvedere, Bhulabhai desai road, Breach candy, Mumbai- 400026.
- 2. Shri T. C. Benjamin, IAS (Retired), Chairman, SEAC-I, 602, PECAN, Marigold, Behind Gold Adlabs, Kalyani Nagar, Pune 411014.
- 3. Additional Secretary, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
- 4. Member Secretary, Maharashtra Pollution Control Board, with request to display a copy of the clearance.
- 5. The CCF, Regional Office, Ministry of Environment and Forest (Regional Office, Western Region, Kendriya Paryavaran Bhavan, Link Road No- 3, E-5, Ravi-Shankar Nagar, Bhopal- 462 016). (MP).
- 6. Regional Office, MPCB, Kolhapur
- 7 Collector Kolhapur

- 8. IA- Division, Monitoring Cell, MoEF & CC, Indira Paryavaran Bhavan, Jorbagh Road, Aliganj, New Delhi-110003.
- 9. Select file (TC-3)

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