Government of Maharashtra

SEAC-2012/CR-177/TC2
Environment department
Room No. 217, 2nd floor,
Mantralaya Annexe,
Mumbai- 400 032.
Dated: 21st January, 2014

To, M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd Shahajinagar, Post-Redni, Tal, Indapur, Dist.-Pune-4131114

Subject: Environmental clearance for proposed 18 MW Bagasse based Co-generation power plant at Nira Bhima Sahakari Sakhar Karkhana Ltd. Shahajinagar, Post-Redni, Tal. Indapur, Dist. Pune by M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd

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 72nd 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 63nd Meeting.

2. It is noted that the proposal is for grant of Environmental Clearance Proposed 18 MW Bagasse based Co-generation power plant at Nira Bhima Sahakari Sakhar Karkhana Ltd., Shahajinagar, Post-Redni, Tal. Indapur, Dist. Pune. SEAC considered the project under screening category I (d), B1 of EIA Notification, 2006.

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

Name of Project	18 MW Bagasse Based Co-géneration Power Plant by Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)							
Project Proponent	M/s. Nira Bhima Sahakari Sakhar Karkhana Ltd. (NBSSKL)							
Consultant	MITCON Consultancy & Engineering Services Ltd.							
New Project	New Project							
Area Details	Total pl	ot area (Acre.): 100 area (Acre.): 11						
Estimated capital cost of		() () () () () () () () () ()						
the Project (including cost for land, building, plant and		Total Project Cost	Cogen Power (Rs. in Lakh)					
machinery		Land & Site Development	12.00					
separately)		Civil works & Buildings	482.82					
		Indigenous Plant and Machinery	6780.62					
		Preliminary & Pre-Op. Expenses	571.35					
* * * * * * * * * * * * * * * * * * * *		Contingencies	19.19					
		Margin Money	40					

	Mi	scellaneous	Fix	ed Assest	S	120					
	Po	wer Evacua	tion	arrangen	ient	740.80					
	Su	pervision C	harp	es for	178	14,92					
		nchronizing									
	To	1900				8781.7					
ocation details of		17059'29.				****		***			
he project :	Longitude: 74 ⁰ 56'42.45"E										
	Location : Gut No. 340.341,344,345,346,347,348 Shahajinagar. Post- Redni, Tal. Indapur, DistPune.										
	Elevation ab			. / 17	an Constitue						
Distance from Protected	There are no	Protected a	Huted area	SIL	co-Sensitive						
Areas	areas/ inter-s	'Physical	-	cantity	Sour			ns of			
Raw materials (including	Tity-	and		nnes/	of	.u	7555	sportation			
process chemicals,	materials	chemical		er) full	mate	riuls	C 10000000	irce to			
entalysts, & additives).	10	nature of "		duction				tge			
# 1	be used	naterial	capacity					site) with justification			
		- meetin	1				Joseph	Justification			
	Hagasse	Fibrous		oson (160	-						
		material		(S): 2564MT							
			1	Y-season	Exis	ing Sugar	By conveyor belt				
				Days):	Fact			with enclosed-			
	01		arren	493 MT	INB	(NBSSKL) s)		sheet & pipelines			
	Biogas	Gas	7.07	ason 475 TPH			-				
				if-season		100					
		- 11-4	:1.		.475 TPH						
S 1 2 S 1 1	The contract	Name of All Parts	more of	Annual Const	-	-	-	Fotal 1			
Production details	Name of Pro-					oposed tivity	1.8	(T/Year)			
	Intermediate			1		(new/		(1.15)			
	Products		2.1			modernization/					
					(T/Year)						
	Main	Season (1	60	0		MW.		18MW			
	Products:	Days)	- 3					-			
	(Power)	Off-Seaso		0	13	12 MW		13 MW			
	By-Products	(69Days)	-	0		151 MT		3051 MT			
	Intermediate	Season (60		1			14			
	Products: As		-	-		FO 1 (7)					
*	11	Off-Season		n .		650 MT		650 MT			
•		(69 Days	-		-	0.0	2 2 1	ALCOHOLD OF BUILDING			
Process details /		(69 Days	hem					irst converte			
Process details / manufacturing details	into therma	(69 Days neration so l'energy (di	hem	combus	tion).	which is th	nen e	onverted into			
	into therma mechanical	(69 Days neration so l'energy (di energy (thr	hem	combus	tion).	which is th	nen e				
manufacturing details	into therma mechanical (through a	(69 Days neration so l'energy (di energy (thr generator).	hem uring roug	g combus h a turbin	tion). e) an	which is the dinally in	nen e to el	onverted inte			
manufacturing details Rain Water Harvesting	into therma mechanical (through a) In the facto	neration so l'energy (the energy (the generator), ry premises	hem uring roug	top area	tion). e) an will	which is the difficulty in the determinant	nen e to ele ned a	onverted into ectrical energ and			
manufacturing details	into therma mechanical (through a) In the facto subsequent	to Days meration so l'energy (the energy (the generator). ry premises ly rain water	hem uring roug roo	f top area	tion). e) and will potent	which is the distribution of the determination will be	nen e to ele ned a calcu	onverted into ectrical energ and alated,			
manufacturing details Rain Water Harvesting	into therma mechanical (through a) In the facto subsequent However de	(69 Days eneration so l'energy (di energy (thr generator), ry premises ly rain wate etailed desi	hem uring roug s roo er ha gn a	top area rvesting p nd engine	will eotent	which is the distribution of the determination will be	nen e to ele ned a calcu	onverted into ectrical energ and			
Rain Water Harvesting (RWH)	into therma mechanical (through a) In the facto subsequent However di undertaken	(69 Days eneration so l energy (di- energy (thr generator), ry premises ly rain wate- tailed desi- during imp	hem uring roug roo er ha gn a	top area rvesting p nd engine	will eotent	which is the distribution of the determination will be	nen e to ele ned a calcu	onverted into ectrical energ and alated,			
manufacturing details Rain Water Harvesting	into therma mechanical (through a) In the facto subsequent However de	too Days eneration so l energy (the energy (the generator), ry premises ly rain wate etailed desi- during imp requirement	roug roug roug r ha gn a olem	y combus h a turbin f top area rvesting p nd engine entation s	tion). e) and will cotent eering tage.	which is the difficulty in the determinant will be of the RW	nen e to ele ned a calcu	onverted into ectrical energ and alated,			

		Source: Bhir	na River						
	Use of the water:								
	Parti	culars	Sea (CN	William Co.	Off-Season (CMD)				
	Proce	ess .	30		5				
		ing water	464		690 293 61*				
		Water	398						
100		Suppression	60*						
	Drin		- 1		-				
		n belt	86*	9	0				
	4 Importantions	service	13	Annual State of Contract of Co	3				
	Othe	TO THE PARTY OF TH	2	1					
	The second secon	ated water reu	The second second second second second		A COLUMN TO A COLU				
				Miles Alle A	a malarata da				
Storm water drainage	natura	il flow of stori	n water	vill be provided	o maimain the				
Sewage generation and reatment	Propo Capac	sed treatment	generation (CN for the sewage (CMD) (If ap	AD) :3 : Septie tanks fo plicable): NA. a	ollowed by Soak Il sewage will b				
Effluefit characteristic			racteristic will	be prescribed as	s per MPCB, No				
ETP details		ing ETP havin		m³/day, NBSSk	IL has already				
Disposal of the ETP				sludge will be us	sed for gardenin				
sludge (If applicable)	purpo								
Solid waste Management	Sr.	Source	Qty	Form	Composition				
	No		(TPM)	(Sludge / Dry / Slurry etc.)					
	1.	Raw water treatment			-				
	1-	plant	8 MT (18	Sludge					
	2.	ETP	MW season	Snage					
			operation- 160days and 3MT (12 MW off season operation)						
	3.	Process	Ash-	Dry .	potash				
	7.	113	3051MT (18 MW season		4.53				
			operation- 160days and 650MT (12 MW	1.					
			off season operation)						
	4.	Spent							

	5. Oily Slud		0	•	1	••				1-3
	6.	Others Batter waste, e wast etc (P Speci	s like . y te			-				
Atmospheric Emissions (Flue gas characteristics SPM, SO ₂ , NO _N , CO, etc.)	Sr. Polluta No.		WHEN PERSON NAMED IN	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED		Emission rate (kg/hr)		Concentration in flue gas (g/sec)		
	T	SPM		Stack		0.477		3.1		1
	2	SO2	1 6	Stack		39.73	A Local	11		
	3	NOx		Stack		Concentra 100 mg/N	tion in	flue g	as will be	
	4	CO		Stack		NA	-	NA		
Stack emission Details:										-
	Plan Sec & u		Stack No.	from groun level (m)	nd	Diameter (Top)(m)	Emis Rate (kg/	3014	Temp. of Exhaus Gases (⁶ C)	100
	66 TP Boi		1 ^M	75		3.6	0,29		150	-
	40 Boi	TPH ler	2114	60		3.5	11.1	6		-
Emission Standard	Asp	er CPC	B. MPC	B Norn	is					
Ambient Air Quality Data			1					12		7
	Pol	lutant	Permi Stand µg/m	ard	Re	oposed/ sultant incentration (µg/m³)		marks		
1 1	PM	110	100		27.22		Due to proposed			
	SO		80		31			activity there is		
	NC) _X	80		29	29.3		increase in pollulactivity it will be mitigate by providing pollul control equipme such as ESP & a suppression met & by developing green belt around the factory and within the pren		d d

AND THE PERSON OF THE PERSON O	Fu	Fuel Daily Consumption			Calorifie % %			
			(TPD/K	LD)	value (Kcals	Ash	Sulphur	
	1							
			Existing	Proposed	1		1	
	Bag	gasse	1	Season:95	2250	2	0.05	-
			19.	on-		-		
				Season:				
Energy	Sourc	e of fi	uel: Existi	ng Sugar Unit on of fuel to site	having capac	ity 250	0-3500 T	CD
	Propo DG s Numl propo Detai Yes	osed po ets: ber and osed) ls:of th	ne non-con	DG sets to be inventional rene	wable energ	39 KW g and y propo	sed to be	use
			t the trace .	Season (160 Off-Season (6	9 Days) - 32	493M		
Green Belt Development	Bioga	s belt a	: (Season (160 Off-Season (69): 20 Existing	Days) - 1.4 Days) - 1.4 Days) - 1.4	75 TPI		
The state of the s	Bioga	s belt a	: (Season (160	Days) - 1.4 Days) - 1.4 Days) - 1.4	75 TPI		-
Details of Pollution	Bioga Green Num	s belt a	: (Season (60 Off-Season (69): 20 Existing of trees to be pl	Days) - 32 Days) - 1.4 Days) - 1.4 + 12 Propose anted : 6000	75 TPI 75 TPI 75 TPI	t t	
Details of Pollution	Bioga	belt and	: (Season (160 Off-Season (69): 20 Existing	Days) - 32 Days) - 1.4 Days) - 1.4 + 12 Propose anted : 6000	75 TPI 75 TPI 75 TPI ed	t t	
etails of Pollution	Green Num Sr. No.	belt and	: (rea (Acre. d species o	Season (160 Off-Season (69): 20 Existing of trees to be pl Existing pollution control	Days) - 32 Days) - 1.4 Days) - 1.4 12 Propose anted: 6000	75 TPI 75 TPI 75 TPI ed	t t	
Details of Pollution	Biogn Green Num	belt and	: (rea (Acre. d species o	Season (160 Off-Season (69): 20 Existing of trees to be pl Existing pollution control	Days) - 32 Days) - 1.4 Days) - 1.4 Propose anted: 6000 Propos installe	75 TPI 75 TPI 75 TPI ed	t t	
Details of Pollution	Bioga Green Num Sr. No.	belt and	rea (Aere. d species o	Season (160 Off-Season (69): 20 Existing of trees to be pl Existing pollution control system	Days) - 32 Days) - 1.4 Days) - 1.4 Days) - 1.4 Propose anted: 6000 Propose installe ESP ETP Acoust	75 TPI 75 TPI 75 TPI d ed to be	I I	
Details of Pollution Control Systems:	Green Num Sr. No.	belt and ber and Air Water Noise	rea (Aere. d species o	Season (160 Off-Season (69): 20 Existing of trees to be pl Existing pollution control system	Days) - 32 Days) - 1.4 Days) - 1.4 Days) - 1.4 Days) - 1.4 Propose anted: 6000 Propose installe ESP ETP Acoust will be It will 1	75 TPI 75 TPI 75 TPI d ed to bo d	L Distres	
Details of Pollution Control Systems: avironmental Ianagement plan	Green Num Sr. No. 1 2 3 4 Capita	Air. Wate Noise	rea (Acre. d species of	Season (160 Off-Season (69): 20 Existing of trees to be pl Existing pollution control system	Days) - 32 Days) - 1.4 Days) - 1.4 Days) - 1.4 Days) - 1.4 Propose anted: 6000 Propose installe ESP ETP Acoust will be lt will be composed.	75 TPI 75 TPI 75 TPI d ed to bo d	L Distres	
Green Belt Development Details of Pollution Control Systems: Environmental Management plan Budgetary Allocation	Bioga Green Num Sr. No. 1 2 3 4 Capita O&M	Air. Wate Noise Solid I cost (V	rea (Acre. d species of	Season (160 Off-Season (69): 20 Existing of trees to be pl Existing pollution control system	Days) - 32 Days) - 1.4 Days) - 1.4 Days) - 1.4 Days) - 1.4 Propose anted: 6000 Propose installe ESP ETP Acoust will be lt will be composed.	75 TPI 75 TPI 75 TPI d ed to bo d ic Enelo provide provide ting	L Distres	

1.	Air Pollution Control System	200,00	12.00	1.
2	Water pollution control systems (E.T.P)	-	15	
5	Noise pollution control	20.00	2.00	
6	Green Belt Development/ Maintenances	25.00	2.50	
7	Environmental monitoring / Environmental Management	25.00	5,00	
8	Occupational health & safety	10.00	5.00	
10	TAL.	280.00	29.0	

3. The proposal has been considered by SEIAA in its 63rd meeting decided to accord environmental elearance to the said project under the provisions of Environment Impact Assessment Notification, 2006 subject to implementation of the following terms and conditions:

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

(iii) 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 report accordingly to MPCB.

(iv) Necessary arrangement shall be made to adequate safety and ventilation arrangement in furnace area.

(v) Proper Housekeeping programmes shall be implemented.

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.

(A) A stack of adequate height based on DG set capacity shall be provided for control and dispersion of pollutant from DG set.(If applicable)

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

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

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.

+ garly

Erroun Water

-6

Green belt shall be developed & maintained around the plant periphery. Green Belt Development shall be carried out considering CPCB guidelines including selection of plant species and in consultation with the local DFO/ Agriculture Dept.

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 record maintained as per Factories Act.

The company shall make the arrangement for protection of possible fire hazards

during manufacturing process in material handling.

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.

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 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 silos will be provided for collecting and storing bottom ash and fly ash.

(xxiii) Separate funds shall be allocated for implementation of environmental protection measures/EMP along with item-wise breaks-up. These cost shall be included as part of the project cost. The funds earmarked for the environment protection measures shall 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.maharashtra.gov.in

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.

(xxxi) 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 sectoral

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)Six monthly monitoring reports should be submitted to the Regional office MoEF, Bhopal with copy to this department and MPCB.

(ix) The environmental statement for each financial year ending 31st March in Forms 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 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 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.

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 Honble 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. 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.

In ease 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.

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 . Van Vigyan Bhawan, Sec- 5, R.K. Puram. New Dehli - 110 022, if preferred, within 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010

> (R.A. Rajčev) Principal Secretary, Environment department & MS, SEIAA

Copy to:

- 1. Shri. R. C. Joshi, IAS (Retd.). Chairman, SEIAA, Flat No. 26, Belyedere, Bhulabhai desai road. Breach candy. Mumbai- 400026.
- 2. Shri, Dr. S. Devotta, Chairman, SEAC, T2/302 Sky City, Vanagaram Ambattur Road, Chennai - 600 095

- 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).
- 5. Regional Office, MPCB, Punc.
- 6. Commissioner, Pune Municipal Corporation, Pune.
- 7. Collector, Pune.
- IA- Division, Monitoring Cell, MoEF, Paryavaran Bhavan, CGO Complex, Lodhi Road, New Delhi-110003.
- 9. Director (TC-1), Dy. Secretary (TC-2), Scientist-1, Environment department.
- 10. Select file (TC-3).

(EC Uploaded on - 2239514)