CEPI ACTION PLAN VAPI

Comprehensive Environment Pollution Index (CEPI) - ACTION PLAN- Vapi Region

Sr. No.	Activity	Issue	Action	Implementing Agency/ Organization	Time Frame	Financial Implication and outlay
1.	WATER					
1.1	Up gradation of CETP	-	Installation of Additional New Common Spray Dryer (Capacity – 8000 Kg/hr) at the CETP Vapi site.	VGEL	November – 2019	To be borne by VGEL- CETP, Vapi
1.2	Up-gradation of CETP	-	To carry out by following technologies: (i) By Bio-augmentation to treat the refractory COD by using Automated Chemostat Treatment (ACT) Technology Provided by Bio Petro Clean Technology.	VGEL	April 2021	To be borne by VGEL-CETP, Vapi
			(ii) By Fenton's Catalytic Reactor (FCR) Technology to treat refractory COD.(iii) Up-gradation of CETP to treat high			

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			TDS and refractory COD effluent by	J		
			Mechanical Vapor Recompression			
			(MVR).			
			To carry out treatability study for up-			
			gradation of CETP by conducting trails on			
			Pilot Plant and followed by			
			implementation.			
			Pilot Plant Order date			
			Pilot Plant Study Completion			
			Order date for implementation at plant scale			
			Date of Implementation of Plant Scale			

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			 (iv) Installation of Floating type Jet Mixers at equalization tank to control shock load by proper homogenization. (v) Installation of Solar Sun Drying 			
			system of sludge – Capacity - 50 MT per Day			
1.3	Phase- I CETP augmentation	 Query raised by SEIAA dated 15/05/2019. VGEL replied to the query dated 02/10/2019. 	Expansion of Capacity 55 to 70 MLD	VGEL	6 months after obtaining Environment Clearance (EC) from competent authority.	To be borne by VGEL-CETP, Vapi

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1.4	Disposal of	Court Matter:	Laying of pipeline for disposal of treated	VGEL	As per Hon'ble	To be borne by VGEL-
	treated effluent	References:-	effluent at the point decided by NIO.		Court Order	CETP, Vapi
	at the point	O.A. No. 109/2014				
	decided by NIO.	(WZ)				
		R.A. No. 21/2018				
		(M.Nos. 860/2018,				
		861/2018, 862/2018				
		and 1284/2018) in				
		O.A. No. 109/2014				
		(WZ)				
		Civil Appeal Diary				
		No (s). 9808/2019				
		M.A. No. 12/2019 in				
		O.A. 109/2014 (WZ)				
1.5	Online	-	Installation and commissioning of online	VGEL	December- 2020	To be borne by VGEL-
	Monitoring		monitoring system & auto sampler on each			CETP, Vapi
	system		pumping station receiving industrial waste			
	Installation		water as well as CETP inlet and outlet.			

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1.6	Fresh water consumption shall be Nil in ETP.	-	No fresh water shall be utilized for preparation of chemical slurry in CETP.	VGEL	February-2020	To be borne by VGEL-CETP, Vapi
1.7	Acid Bank	VIA will peruse this matter with GIDC at local level and head Office level for finalization and acquisition of land	(Spent acid reception, collection, storage Treatment & Disposal) VIA will identify the location and space for Acid Bank Plant, other than CETP premises within 1 month and submit time bound plan along with Bar Chart.	VIA	Long Term	To be borne by VIA, Association
1.8	Sampling of surface water of Bill khadi, River Daman Ganga and River Kolak in CEPI Area	-	To assess the quality of surface water of Bill khadi, River Daman Ganga and River Kolak in CEPI Area, upstream and downstream sampling shall be carried out regularly.	VIA	Weekly	To be borne by VIA, Association

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1.9	Disconnection	-	To provide over ground discharge line	Notified Area	December 2020	To be borne by Notified
	of all		from individual member unit to GIDC	Authority		Area Authority.
	underground		chamber and disconnect all other			
	drainage		underground drainage connection			
	connection		including domestic.			
1.10	To provide	-	To provide SCADA-PLC System and Auto	Notified Area	November-2021	To be borne by Notified
	SCADA-PLC		Sampler at the outlet of each CETP	Authority		Area Authority
	System and		member units & shall make design to stop			
	Auto Sampler at		hydraulic discharge if exceeds the			
	the outlet of		threshold quantity & allowing specific			
	each CETP		time period for discharge.			
	member units		 1st Phase- Large Scale Industries 2nd Phase- Medium Scale Industries 3rd Phase- Small Scale Industries 			
1.11	Up-gradation of	-	Up-gradation of collection pipeline	Notified Area	Ongoing process	To be borne by Notified
	collection		network and internal drain network of	Authority	based on as and	Area Authority
	pipeline network		waste water to cater existing as well future		when required.	
	and internal		load as and where required and to lay			
	drain network		surface line			

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1.12	Drainage Disconnection for Zero Waste Water generating units	-	Drainage Disconnection for Zero Waste Water generating units/ premises.	Notified Area Authority	December- 2019	To be borne by Notified Area Authority
1.13	Sewage Treatment Plant (STP)	 Vapi Nagarpalika STP time limit is March – 2020. Notified Area STP time limit is March- 2021. 		Concern Local Body (Vapi Nagarpalika / Notified Area Authority)	March-2021	To be borne by concern local body (Vapi Nagarpalika / Notified Area Authority).
1.14	Real time monitoring of effluent installation by Large and Medium Red Category.	-	Real time monitoring of effluent with respect to quantity system shall be installed by Large and Medium Red Category and shall be connected to GPCB server as applicable.	Red Large/Medium units & GPCB	May-2020	To be borne by individual industrial units.

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2	AIR					
2.1	Monitoring of	-	Monitoring of Ambient Air Quality	VIA	Ongoing Process	To be borne by VIA,
	Ambient Air		Monitoring Station identified for CEPI (6			Association
	Quality		station) including Source appeasements			
	Monitoring		study.			
	Station		• Identification of 3 rd Party for			
			monitoring			
			 Monitoring 			
2.2	Plantation	Consultation with	Additional plantation shall be carried out	VIA	October-2020	To be borne by VIA,
		social forestry	within the CEPI area in demarcated green			Association
		department	belt by concern authority.			
			Green belt in CEPI area shall be			
			increased by 40 % from 33%.			
2.3	Upgradation of	-	To control the emission/dusting all roads	Notified Area	March-2021	To be borne by Notified
	road network		shall be metal road.	Authority		Area Authority
	with re carpeting					
	and greenbelt					

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	development					
	both side of the					
	road.					
2.4	Strengthening of	-	Increase in manual Ambient Air	GPCB	May-2020	To be borne by GPCB.
	Manual		monitoring stations at Vapi			Locations for new
	Ambient Air					ambient air monitoring
	monitoring		• Existing – 5 stations			stations will be
	stations		• Total after Proposed – 9 Stations			finalized consultation
						with VIA.
2.5	Common Boiler		Common Boiler for Steam Generation:	Common Boiler	May-2020	To be borne by
	facility			Facilitator		Common Boiler
			Industrial unit may be diverted to			Facilitator.
			the common boiler concept			
			considering existing facility &			
			availability of existing grid.			
			Expansion of existing steam boiler			
			facility based on demand.			

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3	LAND					
3.1	Extension of TSDF	-	Extension of existing TSDF Site	VGEL	October 2020	To be borne by VGEL
3.2	New TSDF site development	Land issue	 New TSDF site development with incinerator. Submit a Time bound plan with bar chart for implementation by end of December-2019. Project Implementation. 	VGEL	April 2022	To be borne by VGEL
4.	HEALTH					
4.1	Health study	-	Health study shall be carried out in CEPI Area including extended upto 5 Kms radius as per format given by MoEF&CC. • Finalization agency and issue work order.	VIA	May-2020	To be borne by VIA, Association

ABBREVATIONS

CEPI – Comprehensive Environment Protection Index NAA- Notified Area Authority

CETP- Common Effluent Treatment Plant

NIO- National Institute of Oceanography

CPCB- Central Pollution Control Board SEIAA- State Environment Impact Assessment Authority

CMEE- Common Multiple Effect Evaporator STP- Sewage Treatment Plant

COD- Chemical Oxygen Demand TDS- Total Dissolved Solids

EIA- Environment Impact Assessment TOC- Total Organic Carbon

GIDC- Gujarat Industries Development Corporation TOR- Terms of Reference

GPCB- Gujarat Pollution Control Board VIA- Vapi Industries Association

MLD- Million Liter per day

VGEL- Vapi Green Enviro Limited

MoEF&CC- Ministry of Environment and Forests & Climate Change ZLD- Zero Liquid Discharge