State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 150th (Day 2) **Meeting Date** May 4, 2018

Subject: Environment Clearance for NANDKRISHNA CHEMICAL PRIVATE LIMITED

Is a Violation Case: No

1.Name of Project	Expansion project of manufacturing of synthetic organic chemicals and allied chemicals
2.Type of institution	Private
3.Name of Project Proponent	Mr. Rajesh Shah and Mr. Ashish Kulkarni
4.Name of Consultant	Goldfinch Engineering Systems Private Limited
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Plot No. B-10, MIDC Nardana
9.Taluka	Sindkheda
10.Village	Bhabhale
11.Area of the project	Gram Panchayat, Babhale.
12.IOD/IOA/Concession/Plan Approval Number	Not applicable
	IOD/IOA/Concession/Plan Approval Number: Not applicable
	Approved Built-up Area: 3300
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	Not applicable
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	44540000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable

25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Aluminium Chloride Hexa hydrate	0.5	00	0.5
2	Ammonium Iodide	0.15	00	0.15
3	Di Ammonium Hydrogen Phospahte	0.27	00	0.27
4	Di Potassium O-Phosphate anhydrous	1	00	1
5	Di Sodium Tetra borate decahydate	0.24	00	0.24
6	Ferric Sulphate monohydrate	0.1	00	0.1
7	Iodophor	2	00	2
8	Phosphotungstic Acid	10	00	10
9	Phosphomolybdic Acid	2	00	2
10	Potassium Meta Vanadate	0.125	00	0.125
11	Silicotungstic Acid	15	00	15
12	Sodium Meta Vnadate	0.15	00	0.15
13	Carbon Disulphide Repacking	3	00	3
14	Diethyl Ether - Anaesthetic Ether	00	10	10
15	Diethyl Ether - Solvent Ether	00	45	45
16	Phenyl Hydrazine HCL	00	10	10
17	2,4 Dinitro Phenyl Hydrazine	00	3	3

18	Hydrazine Sulphate	00	5	5
19	Maleic Acid	00	2	2
20	Maleic Hydrazide	00	2	2
21	Fumaric Acid	00	2	2
22	Anthrone	00	1	1
23	Dithizone	00	1	1
24	1,5 Diphenyl Carbazide	00	1	1
25	Diphenyl Carbazone	00	0.5	0.5
26	Paradimethyl Amino Benzaldehyde	00	0.5	0.5
27	Benzanilide	00	3	3
28	Phenoxy Isopropyl Amine	00	10	10
29	Bromo-4 benzyloxy Propiophenone	00	5	5
30	Nak - Normal –1- (4-benzyloxy phenyl)-2-(1-methyl –2- phenoxy ethylamino) – propanone – 1-hydrochloride	00	5	5
31	2 Bromo,4-5 Dimethoxy Benzyl Bromide	00	5	5
32	3,4 Dimethoxy Benzaldehyde (Veratraldehyde)	00	5	5
33	5- Acetyl Methyl Salicylate	00	5	5
34	3,4,5 Trimethoxy Benzoic Acid	00	3	3
35	3,4,5 Trimethoxy Benzaldehyde	00	3	3
36	2 Amino 2 Phenyl butyric Acid	00	3	3
37	2-Dimethylamino 2 Phenyl butanol	00	3	3
38	Methyl 2- Dimethyl Amino 2- phenyl Butyrate	00	3	3
39	4 Methoxyphenyl Acetone	00	3	3
40	M- Nitro benzaldehyde	00	2	2
41	Halquinol	00	20	20
42	By-Products	--	--	--
43	Precipitated Silica	00	1.35	1.35
44	Bisulphite Solution	00	0.13	0.13
45	Sodium Sulphate Solid	00	15.478	15.478

32.Total Water Requirement

Dry 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
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):	75 CMD
	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**
Domestic	2.0	0.0	2.0	0.5	0.0	1.0	1.5	0.0	1.5
Industrial Process	2.7	10.3	13.0	2.7	(+) 1.2	3.9	0.0	11.5	11.5
Cooling tower & thermopack	6.9	6.7	13.6	4.2	4.9	9.1	2.7	1.8	4.5
Gardening	3.0	2.0	5.0	3.0	2.0	5.0	0.0	0.0	0.0

Fresh water requirement	14.6	19.0	33.6	10.4	8.1	18.5	4.2	13.3	17.5

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA
35.Storm water drainage	**Natural water drainage pattern:**	Provided by MIDC
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	1.5
	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:**	Nil
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	1. ETP Sludge + Salts from Evaporator(TPA) = Existing 0.84 TPA + 00 TPA proposed 5.68 + 343.2 TPA Total- 349.72 TPA 2. Process residue (TPA)= Existing 00 TPA + proposed 5.77(Anesthetic & solvent Ether) + 24.86 (Process) Total- 30.63 3. Spent Carbon (TPA)- Existing 0.2 TPA Proposed- 1.4 TPA Total- 1.6 TPA 4. Empty Drums (Nos.) - existing - 00 Nos. Proposed - 100 Nos.Total - 100 Nos.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	CHWTSDF, Ranjangaon
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Manufacturing Area, Admin Area , ETP, etc.
	Area for the storage of waste & other material:	900 Sq.m.
	Area for machinery:	61 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Included in to total cost
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	----	4-9	6.5-8.5	--
2	BOD (3 days 27° C)	mg/L	1800-2250	80-90	--
3	COD	mg/L	4000-5000	200-230	--
4	TSS	mg/L	400-500	80-90	--
5	Oil & Grease	mg/L	10-15	5-7	--
6	TDS	mg/L	80000-100000	<100	--

Amount of effluent generation (CMD):	17 .5
Capacity of the ETP:	25 CMD
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	Primary , Secondary , Tertiary and treated effluentwater passes through RO, permeate is recycle and reuse and RO reject treated in Evaporator.
Disposal of the ETP sludge	CHWTSDF, Ranjangaon

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP Sludge	35.3	TPA	0.84+ 00	5.68 + 343.2	349.72	CHWTSDF, Ranjangaon
2	Process residue	28.1	TPA	00	5.77 (Anesthetic & solvent Ether)+ 24.86(Process)	30.63	CHWTSDF, Ranjangaon
3	Spent Carbon (ETP)	36.2	TPA	0.2	1.4	1.6	CHWTSDF, Ranjangaon
4	Empty Drums	33.1	Nos./M	00	100	100	Sale to authorized recycler
5	Non-hazardous	-	-	-	-	-	-

6	PVC Woven Sack	-	Nos/M	50	-	50	Sale

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	Boiler (0.3 TPH)	LDO (25 Kg/hr)	1	15	0.25	145 degree C
2	Thermopac(3 Lac Kcal/hr)	FO(42.01 Kg/hr)	2	20	0.25	145 degree C
3	DG set(125 KVA)	HSD (28 lit/hr)	3	3.5	0.20	180 degree C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	LDO	00	25 kg/Hr (For Boiler)	25 Kg/hr (For Boiler)
2	FO	5000 lit/D (Used for boiler & themopac)	42.01 kg/Hr (For Thermopac)	42.01 Kg/hr(For Thermopac)
3	HSD	200 Ltr/D	28 Lit/Hr	28 lit/hr
41.Source of Fuel		Local Market		
42.Mode of Transportation of fuel to site		Tanker / Truck		

43.Green Belt Development	**Total RG area :**	2178 Sq.m.
	No of trees to be cut :	NA
	Number of trees to be planted :	230
	List of proposed native trees :	Pimpal, False Ashok , Neem, Palm
	Timeline for completion of plantation :	6 Month After EC

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	Ficus religiosa	Pimpal	20	Dust Resistant and Local Variety
2	Polyalthia longifolia	False Ashok	110	sound Barrier and Local Variety
3	Azardirachta indica	Neem	35	Dust Resistant and Medicinal Value
4	Anthosephalus cadamba	Kadamb	35	Dust barrier and Local variety
5	Terminalia arjuna	Arjun	30	Dust barrier and Local variety
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Thevetia pearuviana (Kanher)	1.5 m	15
2	Bougainvillea galvara	2 m	20

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	247 KW
	During Operation phase (Demand load):	247 KW
	Transformer:	150 KVA
	DG set as Power back-up during operation phase:	125 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air	By dispersal into atmosphere through chimney of adequate/recommended height.	Stack of Thermopac Will be increased by 5 meter
Water	Effluents generating from process is separating in two streams. High TDS stream being treated separately in a Evaporator of capacity 13 CMD. Condensate of MEE is mix with Low TDS & COD stream. Then it is treated in full-fledged Effluent treatment plant having capacity 25 CMD. Treated water passes through RO, permeate is recycle and reuse and RO reject treated in Evaporator. Unit will be running Zero liquid discharge	NA
Noise	Acoustic enclosure for Existing D.G of 125 KVA & PPE	NA
Solid Waste	Hazardous waste disposed to CHWTSDF	NA

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	NA

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 pollution control	Fuel burning, Stack/chimneys,Scrubbers - 02 Number	5	1.5
2	Water Pollution control	ETP Upgrading & Modernisation 25 CMD, RO Plant, Evaporator, Waste minimization of effluent recycle	73	1.46
3	Water Pollution control	ETP Upgrading & Modernisation 25 CMD, RO Plant, Evaporator, Waste minimization of effluent recycle	73	1.46
4	Noise pollution control	Acoustic encl./ Ant vibration pads	1	1
5	Occupational health	Medical checkup ,Health insurance policy	4	1.35
6	Green belt	green belt development	1	0.4
7	Non-hazardous waste storage & Disposal	Transportation and disposal	1	1.4
8	Total	-	85	7.11

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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
Allumminium Hydrate	Solid	HDPE Drum	0.2	0.2	0.167	Local	By Road
Ammonia	Liquid	HDPE Drum	0.2	0.2	0.198	Local	By Road
Di-Sodium Tetraborate	Solid	HDPE Bag	0.25	0.5	0.250	Local	By Road
Diethyl Ether	Liquid	MSGI Drum	5	20	13.500	Local	By Road
Di - Sodium Phosphate	Solid	HDPE Drum	0.5	1	0.6666	Local	By Road
Ferous sulphate	Solid	HDPE Drum	0.2	1	0.1111	Local	By Road
Hydrochloric Acid	Liquid	HDPE Drum	5	21	14.200	Local	By Road
Iodine	Solid	HDPE Drum	0.1	1	0.102	Local	By Road
hydrogen peroxide	Liquid	HDPE Drum	0.5	1	0.048	Local	By Road
Molybdenum Trioxide	Solid	HDPE Drum	1	2	2.0	Local	By Road
Nitric Acid	Liquid	HDPE Drum	0.15	0.5	0.10222	Local	By Road
NPEO	Solid	Fibre Drum	0.3	1	0.220	Local	By Road
Phospharic Acid	Liquid	HDPE Drum	1	2	1.27758	Local	By Road
Potassium Hydroxide	Solid	HDPE Drum	0.5	1	0.8411	Local	By Road

Sodium Hydroxide	Solid	HDPE Drum	0.2	1	0.040	Local	By Road
Sodium Silicate	Liquid	HDPE Drum	3	5	6.500	Local	By Road
Sodium Tungstate	Solid	HDPE Drum	5	10	27.250	Local	By Road
Sulfuric Acid	Liquid	HDPE Drum	1	1	0.02888	Local	By Road
Vanadium Pentoxide	Solid	HDPE Drum	0.3	0.5	0.200	Local	By Road
Carbon Di - Sulphide Repacking	Liquid	SS tank	0.1	5	3.0	Local	By Road
1,5 diphynyl carbazide	Solid	HDPE Drum	0.2	0.2	0.625	Local	By Road
2 amino 2 phynyl buteric acid	Solid	HDPE Drum	3	3	8.275	Local	By Road
2,4 DInitrochloro benzene	Solid	HDPE Drum	3	5	7.629	Local	By Road
3 hydroxy 4 methyl benzaldehyde	Liquid	HDPE Drum	3	5	9.524	Local	By Road
3,4,5 trimethoxy toulene	Liquid	HDPE Drum	2	3	3.600	Local	By Road
4 hydroxy propiophenone	Liquid	HDPE Drum	2	2	5.401	Local	By Road
Acetic acid	Liquid	HDPE Drum	1	2	1.336	Local	By Road
Acetone	Liquid	HDPE Drum	5	8	16.733	Local	By Road
Acetyl chloride	Liquid	HDPE Drum	1	3	3.653	Local	By Road
Aluminium chloride	Solid	HDPE Drum	3	5	7.230	Local	By Road
Ammonia	Liquid	HDPE Drum	3	5	11.066	Local	By Road
Ammonium chloride	Solid	HDPE Drum	2	2	2.481	Local	By Road
Aniline	Liquid	HDPE Drum	2	3	1.440	Local	By Road
Antroquinone	Solid	HDPE Drum	1	2	3.500	Local	By Road
Benzaldehyde	Liquid	HDPE Drum	5	15	15.0	Local	By Road
Benzoyl chloride	Liquid	HDPE Drum	2	3	2.304	Local	By Road
Benzyl chloride	Liquid	HDPE Drum	3	4	3.804	Local	By Road
Bromine	Liquid	Glass Bottle	3	10	13.737	Local	By Road
Chlorine	gas	MS Tunner	3	5	7.692	Local	By Road
Copper iodide	Solid	HDPE Drum	0.75	0.75	0.750	Local	By Road
Carbon disulphide	Liquid	MS Tank	3	10	0.0303	Local	By Road
Cyclohexane	Liquid	HDPE Drum	3	10	17.042	Local	By Road
Di methyl formamaide	Liquid	HDPE Drum	1	3	5.400	Local	By Road
Di methyl sulphate - DMS	Liquid	HDPE Drum	3	5	18.189	Local	By Road
Di methyl sulphate - DMS	Liquid	HDPE Drum	3	5	18.189	Local	By Road
Ethyl Acetate	Liquid	HDPE Drum	3	5	4.794	Local	By Road
Ethyl Alcohol	Liquid	MS Tank	24	24	98.214	Local	By Road
Ethylene di-chloride	Liquid	HDPE Drum	2	4	5.384	Local	By Road
Ethylen di chloride toulene	Liquid	HDPE Drum	1	6	6.0	Local	By Road
formaldehyde	Liquid	HDPE Drum	1	3	5.193	Local	By Road
formic acid	Liquid	HDPE Drum	1	3	6.435	Local	By Road
hydrogen peroxide 50 %	Liquid	HDPE Drum	3	10	30.960	Local	By Road
HBR 47 %	Liquid	HDPE Drum	2	10	86.640	Local	By Road
hydrazin hydrate	Liquid	HDPE Drum	3	5	7.298	Local	By Road
hydrazine sulphate	Solid	HDPE Drum	1	3	2.307	Local	By Road

hydrochloric acid	Liquid	HDPE Drum	3	5	8.620	Local	By Road
hydrochloric acid 30 %	Liquid	HDPE Drum	3	5	12.666	Local	By Road
hydrogen peroxide	Liquid	HDPE Drum	0.5	1	0.16666	Local	By Road
IPA	Liquid	MS Drum	1	3	5.761	Local	By Road
Magnease dioxide	Solid	HDPE Drum	1	2	2.400	Local	By Road
maleic anhydride	Solid	HDPE Bag	1	3	3.467	Local	By Road
MDS	Liquid	HDPE Drum	3	5	38.191	Local	By Road
methanol	Liquid	MSGI Drum	10	20	157.354	Local	By Road
methyl 2 chloropropane	Liquid	HDPE Drum	1	2	2.382	Local	By Road
methyl salicylate	Liquid	HDPE Drum	1	2	3.846	Local	By Road
monoethanol amine	Liquid	HDPE Drum	1	1	0.82896	Local	By Road
N, N dimethyl aniline	Liquid	HDPE Drum	1	1	0.520	Local	By Road
N, N dimethyl formamaide	Liquid	HDPE Drum	1	1	0.880	Local	By Road
sodium Hydroxide 50 %	Liquid	HDPE Drum	2	3	5.716	Local	By Road
Nitric acid	Liquid	Glass Bottle	3	5	14.285	Local	By Road
Paramethoxy benzaldehyde	Liquid	HDPE Drum	1	2	2.617	Local	By Road
Para cresol	Solid	MSGI Drum	5	10	24.0	Local	By Road
Phenol	Solid	MSGI Drum	3	5	6.153	Local	By Road
Phenoxy isopropyle amine	Liquid	HDPE Drum	3	3	2.739	Local	By Road
phenyl hydrazine	Liquid	HDPE Drum	3	5	10.583	Local	By Road
phosphoryl chloride	Liquid	HDPE Drum	0.2	0.3	0.240	Local	By Road
potash alum	Solid	HDPE Bag	1	2	0.628	Local	By Road
potassium carbonate	Solid	HDPE Bag	3	5	4.109	Local	By Road
potassium permagnate	Solid	MS Drum	0.5	1	0.19047	Local	By Road
propiophenone	Liquid	HDPE Drum	1	2	3.111	Local	By Road
potassium hydroxide	Solid	HDPE Drum	1	1	0.166	Local	By Road
ranni nikel catalyst	Solid	HDPE Drum	0.2	0.4	0.100	Local	By Road
sodium acetate	Solid	HDPE Bag	1	1	0.440	Local	By Road
sodium bi carbonate	Solid	HDPE Bag	1	1	1.369	Local	By Road
sodium bi sulphite	Solid	HDPE Bag	1	1	0.07142	Local	By Road
sodium borohydride	Solid	HDPE Drum	1	1	2.156	Local	By Road
sodium carbonate	Solid	HDPE Bag	1	1	0.3622	Local	By Road
sodium chloride	Solid	HDPE Drum	1	1	0.0016917	Local	By Road
sodium cyanide	Solid	HDPE Drum	0.2	1	1.278	Local	By Road
sodium hydroxide	Solid	HDPE Bag	5	10	24.099	Local	By Road
Sodium metal	Solid	Tin MS Drum	1	2	11.400	Local	By Road
Sodium methoxide	Solid	HDPE Drum	1	2	1.036	Local	By Road
sulphuric acid	Liquid	HDPE Drum	5	10	71.357	Local	By Road
Toulene	Liquid	HDPE Drum	5	10	148.025	Local	By Road
urea	Solid	HDPE Drum	0.2	0.2	0.370	Local	By Road
8-Hydroxy Quinoline	Solid	HDPE Drum	3	5	13.636	Local	By Road

52.Any Other Information

No Information Available

53.Traffic Management		
	Nos. of the junction to the main road & design of confluence:	NA
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	792 Sq. m.
	Area per car:	NA
	Area per car:	NA
	Number of 2-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
	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	5(f)
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-04-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
40. Stack Emission details	Thermopack (3 Lac Kcal/hr, Fuel FO 42.01 Kg/hr)	Thermopack (2Lac Kcal/hr, Fuel FO 21.78 Kg/hr) + (4 Lac Kcal/hr, Fuel FO 43.57 Kg/hr)

40. Stack Emission details	DG Set (125 KVA), Fuel HSD 28 lit/hr	DG Set (250 KVA), Fuel HSD 42 lit/hr (Existing DG of 125 KVA will be replaced by Proposed DG of 250 KVA)

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes Zero Liquid Discharge, PP provided scrubber and stack height of 15 meters to control the air pollution. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits at site.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes Effluent Treatment Plant and Zero Liquid Discharge.
Drainage pattern of the project	Not Applicable
Ground water parameters	As per data submitted by PP ground water parameters are within the prescribed limits at project site.
Solid Waste Management	PP committed to dispose the hazardous waste at Common Hazardous Waste Treatment, Storage, and Disposal Facility and sale to Authorized vendors. Details are given at Sr. No. 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 247 KW, which will be supplied by MSEDCL. PP proposes 125 KVA DG Set.
Traffic circulation system and risk assessment	PP has indicated in the lay out plan total 792 Sq.m. area for parking and internal roads will be of six meter width along with nine meters of turning radius for smooth circulation of traffic.
Landscape Plan	PP provided 33% green belt within the premises.
Disaster management system and risk assessment	PP carried out HAZOP and Risk Assessment and submitted DMP.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposed EMP cost of Rs.85 Lakh as capital cost and Rs,7.11 Lakh as O & M cost to maintain environmental parameters.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR isused by MoEF & CC published in April, 2015.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisiosn as per para 7 III Stage (3) (b) of the EIA Notification, 2006.

Draft Terms of Reference (TOR) have been discussed and finalized during 140th meeting of SEAC-1. The committee prescribed the following additional TOR along with Standard TOR as available on the Ministry of Environment, Forest and Climate Change website for preparation of EIA-EMP report.

1. PP to submit an undertaking that, they area operating their plant from 2006 only for the manufacture of inorganic products for which prior Environment Clearance was not applicable and they have not violated any requirement of EIA Notification, 2006 and amendments thereof.

2. PP to divert domestic sewage line to the secondary treatment in the ETP.

3. PP to submit layout plan showing internal roads, location of pollution control equipment, parking areas, 33% green belt, location of waste storage etc.

4. PP to submit detailed report of HAZOP and QRA.

5. PP to prepare and submit hazardous chemical handling protocol.

6. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

7. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.

8. PP to submit on site/ off site emergency plan.

9. PP to submit rain water harvesting plan.

The proposal was again considered in the 148th meting held on 27.02.2018 wherein the proposal was deferred till submisson of compliance of below points.

1. PP to submit action plan for the implementation of the recommendations brought out in the HAZOP and Risk Assessment studies.

2. PP to prepare a compatibility chart of all the raw materials and use the same for employee training.

3. PP to explore possibility to use better and efficient technology for reduction of the impact identified in the LCA analysis report.

4. PP to provide drip irrigation for the development of green belt.

5. PP to revise the water balance taking in to account quantity of rain water harvesting.

Now in 150th meeting PP submitted compliance of above points.

DECISION OF SEAC

After deliberations with the PP and their accridited consultant, SEAC decided to recoomend the proposal for prior Environment Ceearance to the SEIAA subject to the following conditions..

Specific Conditions by SEAC:

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions

State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 150th (Day 2) **Meeting Date** May 4, 2018

Subject: Environment Clearance for Installtion of Ropeway at Shri jivdani devi temple , Virar

Is a Violation Case: No

1.Name of Project	Jivdani Devi Temple Trust
2.Type of institution	TOR
3.Name of Project Proponent	Jivdani Devi Temple Trust
4.Name of Consultant	Self
5.Type of project	Funicular Ropeway Project
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Environmental clearance from SEIAA on dated 17/09/2009
8.Location of the project	S. No. 398
9.Taluka	Vasai
10.Village	Virar -E
Correspondence Name:	Pradeep Vishnu Tendolkar
Room Number:	01
Floor:	NA
Building Name:	Shri jivdani devi temple Trust
Road/Street Name:	virar -E
Locality:	Vasai
City:	Palghar
11.Area of the project	VVCMC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 00
13.Note on the initiated work (If applicable)	Existing Temples
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	19500
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 00
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	12500000

22.Number of buildings & its configuration

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

1	Not applicable	Not applicable	Not applicable

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

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	NA	NA	NA	NA

32.Total Water Requirement

Dry season:	**Source of water**	VVCMC
	Fresh water (CMD):	40
	Recycled water - Flushing (CMD):	20
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	60
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	Not applicable

Wet season:	Source of water	VVCMC
	Fresh water (CMD):	40
	Recycled water - Flushing (CMD):	20
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	60
	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
Domestic	0	0	0	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	Level of the Ground water table:	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	NA

35.Storm water drainage	Natural water drainage pattern:	NA
	Quantity of storm water:	NA
	Size of SWD:	NA

Sewage and Waste water	**Sewage generation in KLD:**	15
	STP technology:	Septic tank
	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:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	NA
	Wet waste:	NA
	Hazardous waste:	NA
	Biomedical waste (If applicable):	NA
	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:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	NA	NA	NA	NA	NA
Amount of effluent generation (CMD):		NA			
Capacity of the ETP:		NA			

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	NA
Disposal of the ETP sludge	NA

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	NA	NA	NA	NA	NA	NA	NA

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	D.G sets	HSD	1	4.5	0.15	65

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	00	25 lit /hr	25 lit/hr
41.Source of Fuel		Local Vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	NA
	No of trees to be cut :	NA
	Number of trees to be planted :	NA
	List of proposed native trees :	NA
	Timeline for completion of plantation :	NA

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	NA	NA	NA	NA
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	100 KVA
	DG set as Power back-up during construction phase	35 KVA
	During Operation phase (Connected load):	450 KW
	During Operation phase (Demand load):	360 KVA
	Transformer:	500 KVA
	DG set as Power back-up during operation phase:	125 KVA X 01, 65 KVA X 1
	Fuel used:	HDS
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

LED LIGHTS, SOLAR LIGHT FOR STREE LIGHTING

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	LED LIGHTS, SOLAR LIGHT FOR STREE LIGHTING	15 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
NA	NA	NA

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	18.0
	O & M cost:	2.0

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	NA	NA	NA

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Energy Conservation Measures	LED, Solar Lighting	18.0	2.0
2	Sanitation	Toilets, Septic Tank	25.0	4.0

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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	NA	NA	NA	NA

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	9630 SQ.M
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	600
	Number of 4-Wheelers as approved by competent authority:	500
	Public Transport:	NA
	Width of all Internal roads (m):	NA
	CRZ/ RRZ clearance obtain, if any:	NA
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Land taken by Forest Department on lease
	Category as per schedule of EIA Notification sheet	7 (g) B2 Category as per MoEF OM dated 24 december 2013
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No

	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable at this stage.
Water Budget	Not Applicable at this stage.
Waste Water Treatment	Not Applicable at this stage.
Drainage pattern of the project	Not Applicable at this stage.
Ground water parameters	Not Applicable at this stage.
Solid Waste Management	Not Applicable at this stage.
Air Quality & Noise Level issues	Not Applicable at this stage.
Energy Management	Not Applicable at this stage.
Traffic circulation system and risk assessment	Not Applicable at this stage.
Landscape Plan	Not Applicable at this stage.
Disaster management system and risk assessment	Not Applicable at this stage.
Socioeconomic impact assessment	Not Applicable at this stage.
Environmental Management Plan	Not Applicable at this stage.
Any other issues related to environmental sustainability	Not Applicable at this stage.

Brief information of the project by SEAC

PP submitted their proposal for prior Environment Clearance under category 7(g)B2 of the EIA Notification,2006 and OM issued by MoEF &CC dated 24.12.2013.

The proposed project is only for funicular rope way at Shri. Jivdani Devi Temple.

DECISION OF SEAC

After detailed deliberations with the PP, SEAC decided to defer the proposal till PP submits complianc eof following points.

Specific Conditions by SEAC:

1) PP to submit plan layout and details of the facilities proposed in the project like approach roads , parking areas, Upper Terminal, Lower Terminal, waiting hall, ticket counter, toilets, security cabins etc along with their built up area.
2) PP to ensure the engineering standards of rope way system are as per Aerial Rope way Act and to be certified by the prescribed Authority.
3) PP to obtain all necessary permission including permission from Forest Department and submit a copy.
4) PP to provide anemometer at an appropriate place to identify the wind speed with warning and automatic shutdown capability in case of wind speed exceeds the set limit.
5) PP to provide limit switches at line trestles and stations to stop rope way in case of an emergency.
6) PP to submit design details of the funicular rope way along with safety interlocks proposed to avoid any unforeseen incident.
7) PP to submit details of national or international standards based on which funicular rope way is designed.
8) PP to ensure that the proposed area shall be a plastic free zone and submit plan to implement the same.
9) PP to provide sewage treatment plant for the treatment of domestic waste water generated during the visit of pilgrims.
10) PP to submit their plan for minimization of waste like flowers, coconuts, inert material etc. including waste storage, transport and disposal.
11) PP to provide well equipped First Aid Room on site and submit details.
12) PP to use solar energy for illumination of lights in the area.
13) PP to submit an undertaking for not having any ecosensitive area in the range of 5 KM from proposed site.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

Subject: Environment Clearance for Proposed Additional Liquid Cargo Jetty with capacity of 4.5 MTPA at JNPT

Is a Violation Case: No

1.Name of Project	Proposed Additional Liquid Cargo Jetty with capacity of 4.5 MTPA at JNPT
2.Type of institution	Private
3.Name of Project Proponent	Jawaharlal Nehru Port Trust
4.Name of Consultant	TATA Consulting Engineers Ltd
5.Type of project	Others (Cat- 'B' Construction of foreshore facilities)
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing Liquid Cargo Jetty with capacity of 4.5 MTPA
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	This is new Project
8.Location of the project	JNPT own notified water Limit District Raigad, Navi Mumbai, Maharashtra
9.Taluka	Uran
10.Village	Sheva
Correspondence Name:	Sri. S.V. Madabhavi, Chief Manager, PDD, JNPT
Room Number:	CM Chamber
Floor:	Second Floor
Building Name:	JNPT Administrative Building
Road/Street Name:	JNPT Road
Locality:	Sheva
City:	Uran
11.Area of the project	JNPT Port Area - JNPT proposed liquid jetty for berthing of Vessel (300m X 55m =16500 sq.m) plue fire fighting Pumping Station (49m X 20m= 980 sq.m)
12.IOD/IOA/Concession/Plan Approval Number	This is not building Project-NA
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 20500
13.Note on the initiated work (If applicable)	DPR prepared- Additional liquid Cargo Jetty at JNPT
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	This is not building Project-Not Applicable
15.Total Plot Area (sq. m.)	17500 sq. m
16.Deductions	This is not building Project-Not Applicable
17.Net Plot area	17500 sq. m
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** This is not building Project-Not Applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 20500
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** This is not building Project-Not Applicable
	Approved Non FSI area (sq. m.): This is not building Project-Not Applicable
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	This proposal for construction Jetty including firefighting facility.
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not Applicable
21.Estimated cost of the project	3091000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Offshore Jetty	Pilling Deck Structure only at +7m CD.	7 m
2	Fire Fighting Facility	4 floor	19.6 m

23.Number of tenants and shops	Proposed project is for liquid Cargo Jetty. Manpower- 50 nos.
24.Number of expected residents / users	Proposed project is a liquid Cargo Jetty.
25.Tenant density per hectare	Proposed Project is liquid Cargo Jetty.
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	6 meter width of road for approach to Jetty.
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	The fire fighting facility is provided as per OISD norms and are automatic & monitored form adjoining towers.
29.Existing structure (s) if any	At present the location is seaward side and no existing Structures.
30.Details of the demolition with disposal (If applicable)	No demolition & waste generation

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Proposed project is Liquid Cargo jetty for loading / unloading Liquid Cargo	Not Applicable	Not Applicable	Not Applicable

32.Total Water Requirement

Dry season:	**Source of water**	JNPT water supply main
	Fresh water (CMD):	(50 x 45 lit) 2.25 CMD (Domestic Consumption)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2.25 CMD
	Fire fighting - Underground water tank(CMD):	Sea water- 1200m3/hr fire fighting form the five stations located within 150 meter jetty. (No underground Tank)
	Fire fighting - Overhead water tank(CMD):	No overhead tank (Sea water used for firefighting)
	Excess treated water	Not applicable
Wet season:	**Source of water**	JNPT water supply main
	Fresh water (CMD):	(50 x 45 lit) 2.25 CMD (Domestic Consumption)
	Recycled water - Flushing (CMD):	Not applicable
	Recycled water - Gardening (CMD):	Not applicable
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	2.25 CMD
	Fire fighting - Underground water tank(CMD):	Sea water- 1200m3/hr fire fighting form the five stations located within 150 meter jetty. (No underground Tank)
	Fire fighting - Overhead water tank(CMD):	No overhead tank (Sea water used for firefighting)
	Excess treated water	Not applicable
Details of Swimming pool (If any)	Not applicable- Proposed project is a liquid Cargo Jetty.	

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Fresh water requirement	0	0	0	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	This location is offshore & it is project for construction jetty.
	Size and no of RWH tank(s) and Quantity:	In deck open to flow of water.
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	-
	Size of recharge pits :	-
	Budgetary allocation (Capital cost) :	-
	Budgetary allocation (O & M cost) :	-
	Details of UGT tanks if any :	NOT APPLICABLE- Proposed project is a liquid Cargo Jetty.
35.Storm water drainage	**Natural water drainage pattern:**	This is offshore structure on deck open to flow of water.
	Quantity of storm water:	-
	Size of SWD:	-
Sewage and Waste water	**Sewage generation in KLD:**	No accommodation at deck of Jetty, however JNPT has 4 MLD STP.
	STP technology:	-
	Capacity of STP (CMD):	-
	Location & area of the STP:	-
	Budgetary allocation (Capital cost):	-
	Budgetary allocation (O & M cost):	-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Contruction phase- Dredge material Quantity 0.2 millon cu m
	Disposal of the construction waste debris:	Disposal of dredge material (0.2 millon cu m) at designated dumping site DS-3
Waste generation in the operation Phase:	**Dry waste:**	50 gm X 50= 2.5 kg/ day
	Wet waste:	50 gm x 50= 2.5 kg/day
	Hazardous waste:	5 kg/month (Absorbent Pad/ Cotton rag)
	Biomedical waste (If applicable):	NOT APPLICABLE
	STP Sludge (Dry sludge):	NOT APPLICABLE
	Others if any:	NOT APPLICABLE

Mode of Disposal of waste:	**Dry waste:**	Disposal identified area
	Wet waste:	Composting
	Hazardous waste:	Handed over MPCB approved Vendor
	Biomedical waste (If applicable):	No bio-medical waste generated.
	STP Sludge (Dry sludge):	Used in gardening.
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Not Applicable
	Area for the storage of waste & other material:	Not Applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not Applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Amount of effluent generation (CMD):		Not Applicable			
Capacity of the ETP:		Not Applicable			
Amount of treated effluent recycled :		Not Applicable			
Amount of water send to the CETP:		Not Applicable			
Membership of CETP (if require):		Not Applicable			
Note on ETP technology to be used		Not Applicable			
Disposal of the ETP sludge		Not Applicable			

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Negligible quantity 1-2 liter is collected in try & discharge into plastic drum than reintroduce pipeline before pigging operation so that transfer that into tank form.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

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	NOT APPLICABLE	NA	NA	NA	NA	NA

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	NA	NA	NA	NA
41.Source of Fuel		NA		
42.Mode of Transportation of fuel to site		NA		

43.Green Belt Development	**Total RG area :**	offshore structure
	No of trees to be cut :	Not Applicable (No land)
	Number of trees to be planted :	Not Applicable
	List of proposed native trees :	Not Applicable
	Timeline for completion of plantation :	Not Applicable

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	Not Applicable	Not Applicable	NA	NA
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not Applicable	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Required power supply will be supplied through port's power grid.
	During Construction Phase: (Demand Load)	Construction phase power supply by DG sets.
	DG set as Power back-up during construction phase	DG 320 kVA & 125 kVA (5 Sets) & 63 kVA (6 sets)
	During Operation phase (Connected load):	0.22 KW
	During Operation phase (Demand load):	100 kVA
	Transformer:	100 kVA
	DG set as Power back-up during operation phase:	2 x 160 kVA Power back-up.
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No high tension line passing through the plot.

48.Energy saving by non-conventional method:

It is proposed , installed solar panels on fire fighting building. Details will give in EIA report

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Yes, detail will give in EIA report	Yes, detail will give in EIA report

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
2 x 160 kVA Power back-up DG.	JNPT puts follow all mitigative measure	Continues real time monitoring system

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Detail will give in EIA report
	O & M cost:	Detail will give in EIA report

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Construction	details will give in EIA Report	152 lacs/year

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Details will be given EIA report.	Not Applicable	Not Applicable	5.3 lacs/yr

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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
Storage capacity addition is not envisaged for this project because existing tank form capacity is sufficient for storage of chemical of proposed project.	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	This site is located in offshore and connection is only for operation purpose. No general traffic is envisaged.

Parking details:	**Number and area of basement:**	NOT APPLICABLE
	Number and area of podia:	NOT APPLICABLE
	Total Parking area:	NOT APPLICABLE
	Area per car:	NOT APPLICABLE
	Area per car:	NOT APPLICABLE
	Number of 2-Wheelers as approved by competent authority:	NOT APPLICABLE
	Number of 4-Wheelers as approved by competent authority:	NOT APPLICABLE
	Public Transport:	NOT APPLICABLE
	Width of all Internal roads (m):	NOT APPLICABLE
	CRZ/ RRZ clearance obtain, if any:	CRZ Clearance will be applied separately.
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Elephanta Caves within 5KM , Karnala Bird Sanctuary at bout 20 km.
	Category as per schedule of EIA Notification sheet	7 (e) Port, Harbours, Breakwaters, Dredging
	Court cases pending if any	No
	Other Relevant Informations	No
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	01-01-1900

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable at this stage.
Water Budget	Not Applicable at this stage.
Waste Water Treatment	Not Applicable at this stage.
Drainage pattern of the project	Not Applicable at this stage.
Ground water parameters	Not Applicable at this stage.
Solid Waste Management	Not Applicable at this stage.

Air Quality & Noise Level issues	Not Applicable at this stage.
Energy Management	Not Applicable at this stage.
Traffic circulation system and risk assessment	Not Applicable at this stage.
Landscape Plan	Not Applicable at this stage.
Disaster management system and risk assessment	Not Applicable at this stage.
Socioeconomic impact assessment	Not Applicable at this stage.
Environmental Management Plan	Not Applicable at this stage.
Any other issues related to environmental sustainability	Not Applicable at this stage.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 7(e)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

The proposed project is to handle 4.5 Million Ton/Annum Liquid Cargo Jeety construction at JNPT.

DECISION OF SEAC

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.

PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

PP to carry out Public Consultation as per procedure stipulated in the EIA NOtification,2006 along with point wise compliance of all the issues raised during Public Consultation.

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

Specific Conditions by SEAC:

1) PP to submit layout plan showing width of jetty, locations of pipelines, Fire Fighting Equipment etc.
2) PP to obtain CRZ clearance from MCZMA and submit copy.
3) PP submit list of activities to be carried out in proposed project.
4) PP to initiate cradle to grave life cycle analysis to identify the potential damage to the environment due to proposed project.
5) PP to include detailed impact of proposed project on the marine environment along with mitigation measures.
6) PP to submit an undertaking for not cutting any mangroves, disturbing any breeding grounds of birds, fishes etc.
7) PP to carry out Risk Assessment with respect to the Fire , leakages handling etc. and submit Disaster Management Plan.
8) PP to ensure that no waste water shall be discharged into the sea either by proposed activity or by the visiting cargoes.
9) PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 150th (Day 2) **Meeting Date** May 4, 2018

Subject: Environment Clearance for Chemical Maufacturing Plant- DMSS INFRA (INDIA) PRIVATE LIMITED

Is a Violation Case: No

1.Name of Project	DMSS INFRA (INDIA) PRIVATE LIMITED
2.Type of institution	Private
3.Name of Project Proponent	Mr. Jayesh Ashok Jakhete, Mr. Jagadish Hari Pardeshi and Mr. Nilesh Subhash Upasani
4.Name of Consultant	Ultra-Tech
5.Type of project	Industrial Project
6.New project/expansion in existing project/modernization/diversification in existing project	New
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No. FS- 36
9.Taluka	Mahad
10.Village	Birwadi
Correspondence Name:	301,3rd Floor, Kapil TowerA, Near old RTO office, Pune
Room Number:	NA
Floor:	3rd
Building Name:	Kapil Tower A
Road/Street Name:	--
Locality:	Indian
City:	Pune
11.Area of the project	Project located at Mahad MIDC
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	No
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	8000
16.Deductions	NA
17.Net Plot area	8000
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):**
	b) Non FSI area (sq. m.):
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	0
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	0
21.Estimated cost of the project	747.53

22.Number of buildings & its configuration

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

1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	NA
24.Number of expected residents / users	50
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9-12m
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	Gluconate-1) Zinc Gluconate	0	150	150
2	Gluconate-2) Ferrous Gluconate	0	160	160
3	Gluconate-3) Magnesium Gluconate	0	100	100
4	Gluconate- 4)Calcium Lactate Gluconate	0	650	650
5	Lactates- 5) Calcium Lactate	0	70	70
6	Lactates-6) Magnesium Lactate EP grade	0	100	100
7	Lactates-7) Zinc Lactate	0	250	250
8	Orotates- 8) Calcium Orotate	0	100	100
9	Orotates- 9) Magnesium Orotate	0	150	150
10	Ascorbates-10) Calcium Ascorbate (Req ATFD)	0	160	160
11	11) Zinc Ascorbate	0	200	200

12	12) Iron Sucrose	0	36	36
13	13) lrom Polymatose	0	160	160
14	14) calcium Citrate	0	120	120
15	15) Calcium Acetate	0	200	200
16	16) Feric Pyrophosphate	0	200	200
17	17) Ferric Carboxy Maltose	0	5.5	5.5
18	18) Zinc PCA	0	240	240
19	19) Saligin PP (Propylparaben)	0	900	900
20	20) Saligin MP (Metylparaben)	0	900	900

32.Total Water Requirement

Dry season:	**Source of water**	MIDC Mahade
	Fresh water (CMD):	45.5
	Recycled water - Flushing (CMD):	29.5 reused for Process & utility
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	75
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	NA
Wet season:	**Source of water**	MIDC Mahade
	Fresh water (CMD):	45.5
	Recycled water - Flushing (CMD):	29.5 reused for Process & utility
	Recycled water - Gardening (CMD):	0
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	75
	Fire fighting - Underground water tank(CMD):	100
	Fire fighting - Overhead water tank(CMD):	100
	Excess treated water	NA

Details of Swimming pool (If any)	NA

33.Details of Total water consumed

Particulars	Consumption (CMD)			Loss (CMD)			Effluent (CMD)		
Water Requirement	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**	**Existing**	**Proposed**	**Total**
Domestic	0	8	8	0	0	0	0	6	2
Industrial Process	0	26.5	26.5	0	11.5	11.5	0	12	12
Gardening	0	10	10	0	0	0	0	0	0
Industrial Process	0	30.5 Lab & utility	30.5	0	5	5	0	10.5	10.5

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10-15 m
	Size and no of RWH tank(s) and Quantity:	50 cum
	Location of the RWH tank(s):	-
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	Rs. 10.00 Lakhs
	Budgetary allocation (O & M cost) :	Rs. 3.00 Lakhs /Annum
	Details of UGT tanks if any :	5 cum
35.Storm water drainage	**Natural water drainage pattern:**	Towards SW
	Quantity of storm water:	100 m3/hr. max.
	Size of SWD:	600 mm
Sewage and Waste water	**Sewage generation in KLD:**	1
	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:**	NA
	Disposal of the construction waste debris:	NA
Waste generation in the operation Phase:	**Dry waste:**	16 kg/day
	Wet waste:	8 kg/day
	Hazardous waste:	Coal Ash-75 kg/d, DRUMS, HDPE BAGS, LDPE BAGS SALE TO RECYCLERS AND RESELLERS - 100 Nos. day
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Handed over to Authorized recycler
	Wet waste:	composting
	Hazardous waste:	Disposal at CHWTSDF
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	used as mannure
	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:**	NA
	O & M cost:	NA

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	6-8	6-8	5.5-9
2	COD	mg/l	2500	250	250
3	BOD	mg/l	500	100	100
4	TSS	mg/l	250	100	100
5	TDS	mg/l	5000	2000	2000
6	oil & grease	mg/l	10	5	5

Amount of effluent generation (CMD):	24.5
Capacity of the ETP:	35
Amount of treated effluent recycled :	29.5
Amount of water send to the CETP:	--
Membership of CETP (if require):	applied

Note on ETP technology to be used	Effluent is collected in the collection tank (RCC Brick line underground tank). The collected effluent is then sent for Neutralisation tank, where pH is maintained of the effluent. Neutralisation is done with Hydrated Lime under constant stirring. The neutral water is then clarified in Primary Clarifier. The sludge is the sent to sludge bed where it is dried and Gypsum is formed. The gypsum is sold as by-product or is disposed off to CHWTSDF. Filtrate from Primary Clarifier is sent for Biologica
Disposal of the ETP sludge	Sent to CHW-TSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	ETP sludge	34.3 Chemical sludge from waste water treatment	NA	0	0.3 MT/day	0.3 MT/day	Sent to CHW-TSDF

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	Stack attached to Boiler	coal	1	30	1.2	190

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	coal	NA	coal	coal
41.Source of Fuel		Authorized vendor		
42.Mode of Transportation of fuel to site		by road		

43.Green Belt Development

Total RG area :	2640
No of trees to be cut :	NA
Number of trees to be planted :	400
List of proposed native trees :	all native trees
Timeline for completion of plantation :	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	Azadirachtaindica	Neem	20	Large tree, good for roadside plantation
2	Anthocephaluskadamba	Kadamba	40	Shady, large tree, ball shaped flowers.
3	Alstonia scholars	Saptaparni	30	Shady, large evergreen Tree, white fragrant flowers

4	Cassia fistula	Bahava	20	Medium sized deciduous tree. Beautiful yellow flowers, Butterfly host plant
5	Mesuaferra	Nagchampa	20	It known for its fragrant flowers
6	Micheliachampaca	Champa	25	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
7	Mimusopselengi	Bakul	30	Shady tree, small white fragrant flowers
8	Pongamiapinnata	Karanj	25	Shady tree.
9	Bauhineablackeana	Apta / Kanchan	20	Small tree with small white flowers, Butterfly host plant
10	Saracaasoca Delonixregia	Sita Ashok	20	Shady tree with red-yellow flowers.
11	Tectona grandis	Teak	45	tropical hardwood tree species placed in the flowering plant family Lamiaceae
12	Delonixregia	GUlmohor	20	flowering plant
13	Sesamum indicum	Seasam	25	flowering plant
14	Gardenia jasminoides	Ananta	25	flowering plant
15	Calistemonlanceolatus	Bottle Brush	35	flowering plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	MSEDCL
	During Construction Phase: (Demand Load)	--
	DG set as Power back-up during construction phase	50 KVA
	During Operation phase (Connected load):	1142400 KWH
	During Operation phase (Demand load):	50 KVA
	Transformer:	1 No.
	DG set as Power back-up during operation phase:	350 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	NA

48.Energy saving by non-conventional method:

NA

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
ETP	-	proposed 30 KLD
STack	-	proposed for boiler & DG

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Water For Dust Suppression Air & Noise Monitoring	1.44
2	Water	Tanker Water For Construction Water Monitoring	6.48
3	Land	Site Sanitation-	4.00
4	Biological	Gardening Set Up and top soil preservation	3.00
5	Socio- Economic Environment	Disinfection- Pest Control First Aid Facilities Health Check Up Creches For Children Personal Protective Equipment	5.00

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Emission control	Stack	15.00	10.00
2	Water & Wastewater management	ETP	50.00	5.00
3	Solid Waste	--	5.00	2.00
4	Green Belt Development	Green Belt Development	5.00	2.00
5	Monitoring	MOEF&CC	--	1.00
6	Contingency	--	3	2

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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
GDL	Solid	--	60.00	60.00	72.00	Local	by road
Zink Oxide	Solid	--	5.00	5.00	6.00	Local	by road
Ferric Oxide	Solid	--	5.00	5.00	6.00	Local	by road
Magnesium Oxide	Solid	--	5.00	5.00	6.00	Local	by road
Lactic acid	Soild	--	10.00	10.00	12.00	Local	by road
Calcium Oxide	Solid	--	5.00	5.00	6.00	Local	by road
Orotic Acid	Solid	--	10.00	10.00	12.00	Imported	-
AscorbicAcid	Solid	--	5.00	5.00	6.00	Local	by road
FerricChloride	Solid	--	2.00	2.00	2.4	Local	by road
Sucrose	Solid	--	5.00	5.00	6.00	Local	by road
NaoH	Liquid	--	5.00	5.00	6.00	Local	by road
Maltodextrin	Solid	--	5.00	5.00	6.00	Local	by road
CitricAcid	Solid	--	5.00	5.00	6.00	Local	by road
AceticAcid	Solid	--	5.00	5.00	6.00	Local	by road
HydrobenzoicAcid	Solid	--	5.00	5.00	6.00	Imported	--
Propanol	Solid	--	5.00	5.00	6.00	Local	by road
Methanol	Solid						

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	2
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	960
	Area per car:	12.00m
	Area per car:	12.00m
	Number of 2-Wheelers as approved by competent authority:	--
	Number of 4-Wheelers as approved by competent authority:	--
	Public Transport:	--
	Width of all Internal roads (m):	6-9 m

	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	5 (f) BCat.
	Court cases pending if any	No
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
36-Sewage and waste water	Sewage generation in KLD: 1	Sewage generation in KLD: 2
31.Production Details	12.Iron Sucrose (Existing-0, Proposed 36MT/M, Total 36MT/M)	Cancel from Production List
31.Production Details	13. Iron Polymatose (Existing-0, Proposed 160MT/M, Total 160MT/M)	Cancel from Production List
31. Prodution Details	15. Calcium Acetate (Existing-0, Proposed 200MT/M, Total 200MT/M)	Cancel from Production List
31. Prodution Details	16. Feric Pyrophosphate (Existing-0, Proposed 200MT/M, Total 200MT/M)	Cancel from Production List
31. Prodution Details	17. Ferric Carboxy Maltose(Existing-0, Proposed 5.5MT/M, Total 5.5MT/M)	Cancel from Production List
31. Prodution Details	18. Zinc PCA (Existing-0, Proposed 240MT/M, Total 240MT/M)	Cancel from Production List
33. Details of Total water consumption	"Water Requirment -Domestic Proposed loss=0, Total Loss =0, Proposed Effluent =6, Total effluent = 2"	"Water Requirment -Domestic Proposed loss=6, Total Loss =6, Proposed Effluent =2, Total effluent = 2"
33. Details of Total water consumption	Industrial Process: Proposed Loss 11.5, Total Loss = 11.5	Industrial Process: Proposed Loss 3, Total Loss = 3
33. Details of Total water consumption	Gardening : Proposed =0, Total =0	Gardening : Proposed =10, Total =10
36. Sewage and waste water	Sewage generation in KLD =1	Sewage generation in KLD =2
37. Solid Waste Management	wet waste: 8 kg/d	wet waste: 7 kg/d

37. Solid Waste Management	Waste generation in the operation phase Hazardous waste:Coal Ash: 75kg/d, Drums, HDPE Bags, LDPE Bags sale to recyclers and recellers =100 Nos. day	Waste generation in the operation phase Hazardous waste: Drums, HDPE Bags, LDPE Bags sale to recyclers and recellers =100 Nos. /day, ETP Sludge=0.3 T/day, Oil & Grease =0.25 kg/day
37. Solid Waste Management	Mode of Disposal of waste: Hazardous waste: Disposal at CHWTSDF	Mode of Disposal of waste: Hazardous waste: Disposal at CHWTSDF & handed over to Recyclers & Resellers
38. Effluent Characteristics	Amount of water send to the CETP= ---	Amount of water send to the CETP= 24.5 m3/day
39. Hazardous waste details	1) ETP Sludge- Proposed 0.3 MT/d, Total 0.3 MT/d, Methos of disposal- sent to CHWTSDF	1) ETP Sludge- Existing =0 Proposed 0.3 MT/d, Total 0.3 MT/d-Methos of disposal- sent to CHWTSDF 2) Drum, HDPE bags, LDPE Bags - Existing =0, Proposed 100 Nos.Total 100 Nos. - Methos of disposal- sent to CHWTSDF 3) Oil & Grease waste- Existing=0, Proposed 0.25 kg/d, Total 0.25 kg/d - Methos of disposal- sent to CHWTSDF
40. Stacks Emission details	Fuel used with Quantity= coal	Fuel used with Quantity= coal = 540 kg/d/ briquettes=600 kg/d
41.Details of Fuel to be used	Type of fuel= coal, Existing =NA, Proposed =coal, Total=coal	Type of fuel= coal briquettes, Existing =NA, Proposed =coal/briquettes, Total=coal/briquettes
48. Energy	During Operation phase (Connected load)=1142400 KWH	During Operation phase (Connected load)=540 HP
48. Energy	During Operation phase (Demand load)=50 KVA	During Operation phase (Demand load)=400 KVA
48. Energy	DG set as per Power back up during operation phase = 350 KVA	DG set as per Power back up during operation phase = 250 KVA
52. Storage of chemicals	Calcium Oxide- storage capacity in MT= 5	Calcium Oxide- storage capacity in MT= 10
52. Storage of chemicals	Ferric Chloride	Cancel from Production List
52. Storage of chemicals	Sucrose	Cancel from Production List
52. Storage of chemicals	Propanol -storage capacity in MT = 5	N- Propanol -storage capacity in MT = 20
52. Storage of chemicals	Methanol-storage capacity in MT = --	Methanol-storage capacity in MT = 5
54. Traffic Management	Area per car: 12 m	Area per car: 30 m

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable at this stage.
Water Budget	Not Applicable at this stage.
Waste Water Treatment	Not Applicable at this stage.
Drainage pattern of the project	Not Applicable at this stage.
Ground water parameters	Not Applicable at this stage.
Solid Waste Management	Not Applicable at this stage.

Air Quality & Noise Level issues	Not Applicable at this stage.
Energy Management	Not Applicable at this stage.
Traffic circulation system and risk assessment	Not Applicable at this stage.
Landscape Plan	Not Applicable at this stage.
Disaster management system and risk assessment	Not Applicable at this stage.
Socioeconomic impact assessment	Not Applicable at this stage.
Environmental Management Plan	Not Applicable at this stage.
Any other issues related to environmental sustainability	Not Applicable at this stage.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 5(f)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006.

Based on the presentation made by PP; committee decided to approve the TOR in 145th meeting of SEAC held on 30.12.2017 for the preparation of EIA/EMP report as per standard TOR issued by MoEF & CC published in April, 2015 and additional TOR points mentioned below.

1. PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.

2. PP to submit lay out plan showing entry/exit gates, internal road width of six meters, turning radius of nine meters, location of pollution control equipment, parking areas, waste storage areas,33% green belt, rain water harvesting etc.

3. PP to include detailed material balance charts for each product showing consumption of raw material, sources of pollution and mitigation measures to control the pollution and justified use of resources along with quantities in the EIA report.

4. PP to carry out HAZOP and QRA and submit report.

5. PP to carry out life cycle analysis of the activities carried out on site with respect to the sustainability index, green house and ozone depletion potential etc.

6. PP to submit hazardous chemical handling protocol.

7. PP to provide lightening arrestor.

8. PP to submit CETP membership certificate.

9. No coal shall be used for any purpose in proposed project.

10. PP to include detailed water balance calculation in the EIA report.

11. PP to submit design details of proposed Effluent Treatment Plant.

12. PP to submit documents with respect to the notified industrial area of the proposed location. If proposed site is not within notified industrial area PP to conduct Public Hearing as per EIA Notificaiton, 2006.

Now PP submitted EIA/EMP reprot for appraisal.

DECISION OF SEAC

After deliberations with the PP and his accredited consultant, SEAC decided to defer the propsoal til lPP submit compliance of following points.

Specific Conditions by SEAC:

1) PP to submit an undertaking for not having any ecosensitive area within 5 km radius of the proposed project.
2) PP to ensure to use only briquettes for the boiler.
3) PP to submit Disaster Management Plan.
4) PP to submit revised design of ETP to meet the parameters of ETP out let as per standards prescribed by MPCB and CETP.
5) PP to submit copy of membership of CETP and permission to discharge treated effluent to the CETP.
6) PP to submit revised list of trees to be planted in the proposed project.
7) PP to submit methodology adopted for socio economic impact of the proposed project.
8) PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.
9) PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

SEAC-I decided to defer the proposal till PP submits the additional information as per above conditions within 30 days

State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 150th (Day 2) **Meeting Date** May 4, 2018

Subject: Environment Clearance for Expansion in Already Existing Isolated Storage and Handling of Hazardous Chemicals

Is a Violation Case: No

1.Name of Project	Expansion in Already Existing Isolated Storage and Handling of Hazardous Chemicals along with other Allied Facilities to be developed at BPCL Miraj Pol Depot.
2.Type of institution	Government
3.Name of Project Proponent	Bharat Petroleum Corporation Limited
4.Name of Consultant	ECO CHEM SALES & SERVICES, SURAT, GUJARAT
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	expansion in existing project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable
8.Location of the project	At Plot No. 795/1A/3A/1/1 Miraj Pol Depot
9.Taluka	Miraj
10.Village	Miraj
Correspondence Name:	Mr. Rohit Kumar Prajapati
Room Number:	At Plot No. 795/1A/3A/1/1
Floor:	Not applicable
Building Name:	BPCL
Road/Street Name:	Miraj Pol Depot
Locality:	Nr. Railway Goods Shed
City:	Miraj
11.Area of the project	Miraj Municipal
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 39902
13.Note on the initiated work (If applicable)	Not Applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not Applicable
15.Total Plot Area (sq. m.)	39,902 m2
16.Deductions	Not applicable
17.Net Plot area	39,902 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	33000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Not applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable
29.Existing structure (s) if any	Not applicable
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Isolated Storage and Handling of Hazardous Chemicals	16530 KL	1716 KL	18246 KL

32.Total Water Requirement

Dry 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
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
Domestic	1.8	1.2	3.0	0.36	0.24	0.6	1.44	0.96	2.4
Gardening	2.5	7.0	9.5	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	10m
	Size and no of RWH tank(s) and Quantity:	2 Nos. of OWS i.e. 50 KL and 35 KL
	Location of the RWH tank(s):	OWS
	Quantity of recharge pits:	Nil
	Size of recharge pits :	Not applicable
	Budgetary allocation (Capital cost) :	1.20 Lakhs
	Budgetary allocation (O & M cost) :	0.35 Lakhs
	Details of UGT tanks if any :	Tank No. Product Capacity (KL) Class Type of Tank (FR, FCR, UG) Material of Construction (MOC) Nominal Dia. (m) Nominal Height (m) 1 Ethanol 100 A UG MS 3.200 12.600 2 Motor Spirit (MS) 100 A UG MS 3.200 12.600 3 Speed Petrol 100 A UG MS 3.200 12.600 4 Ethanol 200 A UG MS 4.000 16.200 5 Motor Spirit (MS) 200 A UG MS 4.000 16.200
35.Storm water drainage	**Natural water drainage pattern:**	Not Applicable
	Quantity of storm water:	Not Applicable
	Size of SWD:	Not Applicable
Sewage and Waste water	**Sewage generation in KLD:**	2.4
	STP technology:	Not Applicable
	Capacity of STP (CMD):	Not Applicable
	Location & area of the STP:	Not Applicable
	Budgetary allocation (Capital cost):	Not Applicable
	Budgetary allocation (O & M cost):	Not Applicable
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	There will some demolition work.
	Disposal of the construction waste debris:	Construction waste will be filled in low lying area within site.
Waste generation in the operation Phase:	**Dry waste:**	0.42 TPM
	Wet waste:	0.105 TPM
	Hazardous waste:	6.25 KL per month
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable

Mode of Disposal of waste:	**Dry waste:**	collected by municipal corporation
	Wet waste:	for composting
	Hazardous waste:	To TSDF site
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	Not applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

Amount of effluent generation (CMD):	Not applicable
Capacity of the ETP:	Not applicable
Amount of treated effluent recycled :	Not applicable
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Not applicable
Disposal of the ETP sludge	Not applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Tank Cleaning Sludge	3.3	Hazardous and Other Wastes [Management and Transboundary Movement) Amendment Rules, 2016	50 KLPA	25 KLPA	75 KLPA	To TSDF site

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 DG. Sets	HSD 30 L/h	1, 2	7	0.1	490°C
2	Fire Water engine pumps	HSD 50 L/h	0	7	0.1	101°C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	HSD	80 L/h	0	80 L/h
41.Source of Fuel		Self		
42.Mode of Transportation of fuel to site		Not applicable		

43.Green Belt Development	**Total RG area :**	13168 m2
	No of trees to be cut :	0
	Number of trees to be planted :	2430
	List of proposed native trees :	all native tress will be listed in EIA
	Timeline for completion of plantation :	5 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	as per EIA	as per EIA	as per EIA	as per EIA
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	Not applicable	Not applicable	Not applicable

47.Energy

Power requirement:	**Source of power supply :**	MSEB
	During Construction Phase: (Demand Load)	522 kW
	DG set as Power back-up during construction phase	250 KVA
	During Operation phase (Connected load):	700 kW
	During Operation phase (Demand load):	622 kW
	Transformer:	1100 kW
	DG set as Power back-up during operation phase:	65 KVA; 250 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No any

48.Energy saving by non-conventional method:

Solar panel will be sued for street lighting,
LED will be used for illumination.

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar panel will be sued for street lighting, LED will be used for illumination.	10

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Not applicable	Not applicable	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	as per EIA
	O & M cost:	as per EIA

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	will be added in EIA report	will be added in EIA report	will be added in EIA report

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	will be added in EIA report	will be added in EIA report	will be added in EIA report	will be added in EIA report

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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
Proposed Biodiesel Tank	Liquid	Tank Farm	858 KL	858 KL	Not applicable	Manmad BPCL Depot	Railway wagon
Proposed Ethanol Tank	Liquid	Tank Farm	858 KL	858 KL	Not applicable	Local	TT
Ethanol	Liquid	Tank Farm	100 KL	100 KL	Not applicable	Local	TT
MS	Liquid	Tank Farm	100 KL	100 KL	Not applicable	Manmad BPCL Depot	Railway wagon
Speed petrol	Liquid	Tank Farm	100 KL	100 KL	Not applicable	Manmad BPCL Depot	Railway wagon
Ethanol	Liquid	Tank Farm	200 KL	200 KL	Not applicable	Local	TT
MS	Liquid	Tank Farm	200 KL	200 KL	Not applicable	Manmad BPCL Depot	Railway wagon

HSD	Liquid	Tank Farm	4710 KL	4710 KL	Not applicable	Manmad BPCL Depot	Railway wagon
HSD	Liquid	Tank Farm	4710 KL	4710 KL	Not applicable	Manmad BPCL Depot	Railway wagon
HSD	Liquid	Tank Farm	2316 KL	2316 KL	Not applicable	Manmad BPCL Depot	Railway wagon
SKO	Liquid	Tank Farm	1365 KL	1365 KL	Not applicable	Manmad BPCL Depot	Railway wagon
MS	Liquid	Tank Farm	1365 KL	1365 KL	Not applicable	Manmad BPCL Depot	Railway wagon
MS	Liquid	Tank Farm	1365 KL	1365 KL	Not applicable	Manmad BPCL Depot	Railway wagon

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	120 m2
	Area per car:	7 m2
	Area per car:	7 m2
	Number of 2-Wheelers as approved by competent authority:	10
	Number of 4-Wheelers as approved by competent authority:	6
	Public Transport:	Nil
	Width of all Internal roads (m):	5-8m
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Not applicable

	Category as per schedule of EIA Notification sheet	Schedule 6 (b) i.e. Isolated Storage and Handling of Hazardous Chemicals - Category B
	Court cases pending if any	No any court cases pending
	Other Relevant Informations	Proposal number for the online application on MoEF is SIA/MH/IND2/21955/2018
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	10-02-2018

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable at this stage.
Water Budget	Not Applicable at this stage.
Waste Water Treatment	Not Applicable at this stage.
Drainage pattern of the project	Not Applicable at this stage.
Ground water parameters	Not Applicable at this stage.
Solid Waste Management	Not Applicable at this stage.
Air Quality & Noise Level issues	Not Applicable at this stage.
Energy Management	Not Applicable at this stage.
Traffic circulation system and risk assessment	Not Applicable at this stage.
Landscape Plan	Not Applicable at this stage.
Disaster management system and risk assessment	Not Applicable at this stage.
Socioeconomic impact assessment	Not Applicable at this stage.
Environmental Management Plan	Not Applicable at this stage.
Any other issues related to environmental sustainability	Not Applicable at this stage.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

PP to carry out Public Consultation as per procedure stipulated in the EIA Notification 2006 and submit a report.

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

DECISION OF SEAC

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

Specific Conditions by SEAC:

1) PP to submit layout plan showing 33% green belt, adequate internal road width and turning radius required for heavy vehicles, location of emergency equipment, sewage treatment plant, parking areas etc.
2) PP to submit an undertaking for not violating the requirements of EIA Notification 2006 amended time to time.
3) PP to submit copy of water supply NOC obtained from competent Authority.
4) PP to submit copies of Disaster Management Plan .
5) PP to submit copies of HAZOP and QRA studies along with recommendations and mitigation measures.
6) PP to submit calculation for storm water draining considering the contour plan and maximum rain fall; PP also to submit details of proposed rain water harvesting scheme.
7) PP to submit a separate chapter in the EIA report on modern technologies adopted for on site storage of materials to reduce evaporation losses.
8) PP to submit details of proposed sewage treatment facility.
9) PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.
10) PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 150th (Day 2) **Meeting Date** May 4, 2018

Subject: Environment Clearance for Environment Clearance for M/s. Bauli India Bakes & Sweets Pvt Ltd. at Plot No. G-146/1, MIDC, Taluka: Baramati, District: Pune, Maharashtra, India

Is a Violation Case: No

1.Name of Project	Proposed expansion for additional tank of Mounded Bullets for Storage of Propane.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Michele Bauli, Mr. Stefano Zancan and Mr. Vinod Kumar Gupta are directors of the company.
4.Name of Consultant	Green Circle, Inc.
5.Type of project	Not applicable
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	CTE no. Format 1.0/BO/JD (WPC)/UAN No. 0000000826/CE/CC-9395 dated 25.07.2016 and Consent To Operate (CTO) no. RO-PUNE/CONSENT/1708000475 dated 11.08.2017.
8.Location of the project	Plot No. G-146/1, MIDC ,Taluka: Baramati, District: Pune, Maharashtra, India
9.Taluka	Baramati
10.Village	Katpal
Correspondence Name:	Unit No. 201, Second Floor, P-3, Pentagon Towers, Magarpatta City, Pune, Maharashtra , 411028.
Room Number:	Unit No. 201,
Floor:	Second Floor
Building Name:	Pentagon Towers
Road/Street Name:	Magarpatta City
Locality:	Magarpatta City
City:	Magarpatta City, Pune
11.Area of the project	Additional Maharashtra Industrial Development Corporation (MIDC) Baramati
12.IOD/IOA/Concession/Plan Approval Number	Not Applicable
	IOD/IOA/Concession/Plan Approval Number: Not Applicable
	Approved Built-up Area: 34534.50
13.Note on the initiated work (If applicable)	As per existing CTO (Consent To Operate)
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	99664 Sq. m.
16.Deductions	Not applicable
17.Net Plot area	Not applicable
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** Not applicable
	b) Non FSI area (sq. m.): Not applicable
	c) Total BUA area (sq. m.): 34534.50
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	20647.33
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	20.72 %
21.Estimated cost of the project	2450000000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Bldg. No. 1:- Croissant Production, Work shop with Toilet Block.	Ground floor + add Extra due to Ht.	10379.31 + 5056.48 (m2)
2	Bldg. No. 2:- Airlock	Ground floor + add Extra due to Ht. + First floor	7325.56 + 5263.87 + 1635.52 (m2)
3	Bldg. No. 3:- Raw material, Cold room, Utility, Laboratory, Office, Canteen with Toilet block	Ground floor + add Extra due to Ht. + First floor + Second floor	1276.38 + 638.19 + 1158.25 + 1158.25 (m2)
4	Bldg. No. 6:- Reception with Toilet block	Ground floor	189.53 (m2)
5	Toilet Block	Ground floor	32.00 (m2)
6	Nitrogen+Co2 Store	Ground floor	400.00 (m2)
7	Control Room	Ground floor	21.16 (m2)
8	Control Room	Ground floor	21.16 (m2)

23.Number of tenants and shops	Not applicable
24.Number of expected residents / users	Not applicable
25.Tenant density per hectare	Not applicable
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	20 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9 m
29.Existing structure (s) if any	Existing industry (as per CTO)
30.Details of the demolition with disposal (If applicable)	Not applicable

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Propane storage facility	Mounded bullets: 1 Nos. X 71.84 M3	Mounded bullets: 3 Nos. X 71.84 M3	Mounded bullets: 4 Nos. X 71.84 M3 (Capacity: 287.36 M3)

32.Total Water Requirement

Dry season:	**Source of water**	MIDC water supply
	Fresh water (CMD):	250
	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
Wet season:	**Source of water**	MIDC water supply
	Fresh water (CMD):	250
	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**
Domestic	50	-	50	-	-	-	50.0	-	50
Gardening	20	-	20	20	-	20	0.0	-	0.0
Cooling tower & thermopack	20	-	20	15	-	15	5.0	-	5.0
Industrial Process	160	-	160	65	-	65	95.0	-	95.0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	12 m to 15 m bgl
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	3 nos.
	Size of recharge pits :	6 m3 each
	Budgetary allocation (Capital cost) :	Rs. 15,00,000.00 /-
	Budgetary allocation (O & M cost) :	-
	Details of UGT tanks if any :	UGWT (water): 300 m3 X 4 nos. =1200 m 3.
35.Storm water drainage	**Natural water drainage pattern:**	Storm water drain line is connected to water harvesting pits & over flow is connected to natural water flow path
	Quantity of storm water:	23.4 m3
	Size of SWD:	(2 X 2 X 1.5 m3) X 3 nos.
Sewage and Waste water	**Sewage generation in KLD:**	50 KLD
	STP technology:	Domestic waste water will be treated in existing ETP
	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:**	Construction debris, Waste concrete, metallic waste, plastics, broken bricks etc.
	Disposal of the construction waste debris:	Construction debris, Waste concrete and broken bricks will be utilized in low-land leveling, secondary concrete, below roads. Some quantity of Excavation soil will be use for back-filling and remaining will be hand over to authorized vendor.
Waste generation in the operation Phase:	**Dry waste:**	Paper, cardboard, Packing waste, Wooden scrap, HDPE bags, Metal scrap etc
	Wet waste:	ETP sludge will be utilized as a manure for gardening purpose.
	Hazardous waste:	Spent oil from D.G set.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	Sale to authorized vendors
	Wet waste:	will be used for planting purpose
	Hazardous waste:	Sold to authorized vendor
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	Not applicable
	Area for the storage of waste & other material:	Not applicable
	Area for machinery:	Not applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Not applicable
	O & M cost:	Not applicable

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	-	5.0 to 9.0	6.5 - 8.5	6.5 - 9.0
2	Oil & Grease	mg/l	1000	<10	10
3	Suspended Solids	mg/l	1250	<70	100
4	BOD 3 days 27 Deg.C	mg/l	2500	<30	30
5	COD	mg/l	5000	<200	250

Amount of effluent generation (CMD):	150
Capacity of the ETP:	150
Amount of treated effluent recycled :	135
Amount of water send to the CETP:	Not applicable
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Three stage Waste Water Treatment Plant
Disposal of the ETP sludge	ETP sludge, after composting will be used for gardening purpose

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used oil	5.1	Kg/Month	200	-	200	Sold to authorize vendor
2	Waste/residue containing oil	5.2	Kg/Month	70	-	70	CHWTSDF
3	Discarded Containers/barrels	33.3	Nos.	20	-	20	CHWTSDF

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	D.G set (750KVA)	Diesel (150 Kg/hr)	1	18	200	60

2	Boiler-1 & 2 (2X1.12 TPH)	LPG (100 Kg/hr)	1	18	250	60
3	Oven Stack-1	LPG (25 Kg/hr)	1	12	300	40
4	Oven Stack-2	LPG (25 Kg/hr)	1	12	300	40
5	Oven Stack-3	LPG (25 Kg/hr)	1	12	300	40
6	Oven Stack-4	LPG (25 Kg/hr)	1	12	300	40
7	Oven Stack-5	LPG (25 Kg/hr)	1	12	300	40

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	150 Kg/hr	0.00	150 Kg/hr
2	LPG (Boiler-1 & 2)	100 Kg/hr	0.00	100 Kg/hr
3	LPG (Oven Stack-1)	25 Kg/hr	0.00	25 Kg/hr
4	LPG (Oven Stack-2)	25 Kg/hr	0.00	25 Kg/hr
5	LPG (Oven Stack-3)	25 Kg/hr	0.00	25 Kg/hr
6	LPG (Oven Stack-4)	25 Kg/hr	0.00	25 Kg/hr
7	LPG (Oven Stack-5)	25 Kg/hr	0.00	25 Kg/hr
41.Source of Fuel		Propane is received from refinery through LPG Tank Trucks		
42.Mode of Transportation of fuel to site		Roadways		

43.Green Belt Development	**Total RG area :**	35186 sq. m.
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	Phase I + Phase II= 2000 no's of trees (Existing)
	List of proposed native trees :	Neem, Gulmohar etc.
	Timeline for completion of plantation :	already planted

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	Bauhinia blakeana	Hong Kong Orchid Tree	112	the Hong Kong Orchid Tree is a legume tree of the genus Bauhinia, with large thick leaves and striking purplish red flowers.
2	Callistemon Lanceolatus /Melaleuca citrina	Bottle Brush, Red Bottle Brush	145	Melaleuca citrina is a shrub growing to 5 m (20 ft) tall but more usually in the range 1–3 m (3–10 ft) high and wide. It has hard, fibrous or papery bark and its young growth is usually covered with soft, silky hairs.
3	Cassia Javanica	apple blossom tree	141	The flowers range in colour from pale pink to crimson with yellow coloured stamens and are found in open clusters. The ground under the tree is covered with a beautiful carpet of pink towards the end of the flowering season.

4	Cordia Sebestena	Scarlet Cordia	171	A medium sized tree to approximately 10 metres in height that is usually found in sandy or rocky coastal thickets (Correll and Correll 1982). Collections indicate that is also found in scrublands as well as on dry hillsides. It has a high salt tolerance making it suitable to grow in coastal areas. As it is used as an ornamental it is also found in urban areas as a street tree (Brown 2003).
5	Cassia Fistula	Indian laburnum/ Amaltaas	141	A tropical ornamental tree with a trunck consisting of hard reddish wood, growing up to 40 feet tall. The wood is hard and heavy; it is used for cabinet, inlay work, etc.
6	Delonix Regia	Gulmohar	125	Moderate sized fast growing, deciduous tree and light feathery foliage. Leaves bipinnate, at base of leaflet two stipules occur. Flowers appear in corymbs along and at the ends of branches.
7	Jacaranda mimosifolia	jacaranda	170	It is a deciduous tree that grows 25-50’ tall in its native habitat.
8	Lagerstroemia Indica	crepe myrtle	170	Flowers, on different trees, are white, pink, mauve, purple or carmine with crimped petals, in panicles up to 9 centimetres (3 1/2 in).
9	Mahogany - Swietenia Mahogany	mahogany/ Honduran mahogany	170	Indian Mahogany grow up to the height of 30 -40 feet. It is fast upright growing tree with abroad rounded symmetrical crown. It is 20 -30 feet in spread.
10	Grevillea robusta	Silver Oak	125	It is a fast-growing evergreen tree, between 18–35 m (59–115 ft) tall, with dark green delicately dented bipinnatifid leaves reminiscent of a fern frond.
11	Spathodea Campanulata	Fountain Tree	165	Flowers are Orange-scarlet coloured, calyx boat-shaped, spathaceous, recurved, covers the flower in bud and then splits on one side and curves back, it has water secreting glands inside and contains water.
12	Bakul Mimusops Elengi	maulsari/ Bakuli/ Spanish cherry	150	Spanish cherry is a lovely green small tree of the Indian subcontinent. With its small shiny, thick, narrow, pointed leaves, straight trunk and spreading branches, it is a prized oranamental specimen because it provides a dense shade and during the months from March to July fills the night air with the delicious heady aroma of its tiny cream colored flowers.

13	Alstonia Scholaris	blackboard tree / devil tree/ Scholar Tree	25	Scholar Tree is an elegant evergreen tree, found in most parts of India.
14	Azadirachta Indica	Neem	190	Neem is native to India and Burma. It is the state tree of Andhra Pradesh. Neem is a fast growing tree that can reach a height of 15-20 m, rarely to 35-40 m.
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	NA	NA	NA

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Co. Ltd. (MSEDCL)
	During Construction Phase: (Demand Load)	Existing electricity will be utilized
	DG set as Power back-up during construction phase	Existing electricity will be utilized
	During Operation phase (Connected load):	2000 KW
	During Operation phase (Demand load):	2500 KVA
	Transformer:	2.6 MVA
	DG set as Power back-up during operation phase:	750 KVA
	Fuel used:	Diesel – 157
	Details of high tension line passing through the plot if any:	Not Applicable

48.Energy saving by non-conventional method:

Purchase of energy efficient appliances.
Constant monitoring of energy consumption and defining targets for energy conservation.
Adjusting the settings and illumination levels to ensure minimum energy used for desired comfort levels.
Condensate will be recovered and will send back to boiler.
Proper temperature controls will be provided to reduce load on heating systems.
Proper load factor will be maintained by the company.
Company will adopt good maintenance practices and will maintain good housekeeping which will help in better illumination levels with least number of fixtures.
On most of roofs transparent acrylic sheets will be provided to use day light and to stop use of lights during day time.
LED lamps will be provided, wherever applicable.
To the extent possible and technically feasible, energy efficient equipment will be selected.
Gravity flow will be preferred wherever possible to save pumping energy.
Recycling of water will done

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	NA	NA

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air emission- Boilers, D.G set & Ovens	Adequate Stack Height will be provided. In boiler and ovens , LPG is used as a fuel	-
Wastewater - Domestic use & Industrial Use	Industry & domestic waste water wull be treated in ETP and treated water will be used in gardening purpose.	-
Noise - Process area, ETP area, Boiler area	The Boiler would be kept in an isolated area to have the ambient noise level as per CPCB standards. The workers would be provided with proper personal protective equipment (PPE) such as ear plugs, ear muffs etc. The DG sets would be enclosed in canopy as well as silencer.	-
Solid Waste	Sale to authorized vendor / disposal to CHWTSDF	-

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Green Belt development	Tree plantation	1.0
2	Dust suppression	Water sprinkling, dust mask	0.5
3	Environment Monitoring	Monitoring charges of Air, water, noise	0.5
4	Occupational Health	Health check-up, PPEs	0.5

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environment Monitoring and Management	Environmental Monitoring of Air, water, noise	-	1.0
2	Occupational Health	Health Check-up of workers, Provision of First-aid medical facility, Provision of PPEs to workers	1.0	0.5
3	Green Belt	Development of trees, Green area	-	8.0
4	CSR Activity	CSR works	2.0	-

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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
Propane storage facility	Existing	Near Amenity	Mounded bullets: 1 Nos. X 71.84 M3	Mounded bullets: 1 Nos. X 71.84 M3	Mounded bullets: 1 Nos. X 71.84 M3	Propane is received from refinery through LPG Tank Trucks	LPG Tank Trucks - by Roadways
Propane storage facility	Proposed	Near Amenity	Mounded bullets: 3 Nos. X 71.84 M3	Mounded bullets: 3 Nos. X 71.84 M3	Mounded bullets: 3 Nos. X 71.84 M3	Propane is received from refinery through LPG Tank Trucks	LPG Tank Trucks - by Roadways

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	1 no.
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	10112
	Area per car:	2.5 X 3 m
	Area per car:	2.5 X 3 m
	Number of 2-Wheelers as approved by competent authority:	Total 2 Wheeler Parking for 400 Two Wheeler
	Number of 4-Wheelers as approved by competent authority:	Total four wheeler Parking for 30 Vehicles
	Public Transport:	Railway Halt At Katpal Railway Station 1.1 KM City Bus Transportation Service
	Width of all Internal roads (m):	9 m
	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	B
	Court cases pending if any	NA
	Other Relevant Informations	NA
	Have you previously submitted Application online on MOEF Website.	No
	Date of online submission	-

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	Not Applicable at this stage.
Water Budget	Not Applicable at this stage.
Waste Water Treatment	Not Applicable at this stage.
Drainage pattern of the project	Not Applicable at this stage.
Ground water parameters	Not Applicable at this stage.
Solid Waste Management	Not Applicable at this stage.
Air Quality & Noise Level issues	Not Applicable at this stage.
Energy Management	Not Applicable at this stage.
Traffic circulation system and risk assessment	Not Applicable at this stage.
Landscape Plan	Not Applicable at this stage.
Disaster management system and risk assessment	Not Applicable at this stage.
Socioeconomic impact assessment	Not Applicable at this stage.
Environmental Management Plan	Not Applicable at this stage.
Any other issues related to environmental sustainability	Not Applicable at this stage.

Brief information of the project by SEAC

PP submitted their application for the grant of TOR under category 6(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015.

As the industry is located in the notified industrial area/estate (MIDC), Public Hearing is exempted under the provisions as per para 7 III Stage (3) (b) of the EIA Notification, 2006

PP to collect base line data as per Office Memorandum issued by MoEF&CC dated 27.08.2017.

The validity of the TOR will be for three years as per OM issued by MoEF and CC on 29.08.2017.

DECISION OF SEAC

Based on the presentation made by PP; committee decided to approve the TOR for the preparation of EIA/EMP report as per standard TOR and additional TOR points mentioned below.

Specific Conditions by SEAC:

1) PP to submit certificate of incorporation of the company, list of directors and memorandum of articles.
2) PP to submit layout plan showing 33% green belt, adequate internal road width and turning radius required for heavy vehicles, location of emergency equipment, sewage treatment plant, parking areas etc.
3) PP to submit an undertaking for not violating the requirements of EIA Notification 2006 amended time to time.
4) PP to submit copy of drawing approved by PESO for the storage of Propane along with compliance of conditions stipulated in the approval letter.
5) PP to carry out HAZOP and QRA to identify the magnitude of any unforeseen incident and submit copy of Disaster Management Plan.
6) PP to submit copy of agreement/MOU made with HPCL for supply of Propane.
7) PP to submit calculation for storm water draining considering the contour plan and maximum rain fall; PP also to submit details of proposed rain water harvesting scheme.
8) PP to submit details of heat recovery in the oven section of the process.
9) PP to submit details of using solar energy in the proposed project and calculation of energy savings.
10) PP to submit Form - 2 along with EIA/EMP report as per OM issued by MoEF&CC on 20.04.2018.
11) PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

The Committee decided to Grant ToR subject to the above observations,PP requested to prepare and submit EIA report as per EIA Notification, 2006 and amendments thereof.

State Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 150th (Day 2) **Meeting Date** May 4, 2018

Subject: Environment Clearance for Modernization of Sassoon Dock Fisheries Harbour

Is a Violation Case: No

1.Name of Project	Sassoon Dock Fisheries Harbour
2.Type of institution	Government
3.Name of Project Proponent	Maharashtra Fisheries Development Corporation Ltd. Mumbai
4.Name of Consultant	M/s. Ultra-Tech (Environmental Consultancy & Laboratory)
5.Type of project	Modernization of Sassoon Dock Fisheries Harbour
6.New project/expansion in existing project/modernization/diversification in existing project	Modernization
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Not applicable, Old Sassoon dock is established in 1870
8.Location of the project	Survey No: 5/600, Mumbai city, Maharashtra
9.Taluka	Mumbai
10.Village	Mumbai
Correspondence Name:	Shri. Arun Shinde, I.A.S, Managing Director
Room Number:	N.K.M International House
Floor:	3rd Floor
Building Name:	178, Backbay Reclamation Babubhai M. ChinaiMarg
Road/Street Name:	Babubhai M. Chinai Marg
Locality:	Backbay Reclamation
City:	Mumbai
11.Area of the project	Mumbai Port Trust
12.IOD/IOA/Concession/Plan Approval Number	Will be applied
	IOD/IOA/Concession/Plan Approval Number: Will be applied
	Approved Built-up Area: 10646.46
13.Note on the initiated work (If applicable)	Existing facilities in sassoon dock Pump house, Auction shed no.1,2 Toilet block-3no. Electrical Substation, fresh water overhead tank, existing building for management and maitenance block, Fuel storage facility, open fish auction shed, custom office, Quay, Drainage and sewerage system, Beilge water oil separation, spent & toxic waste reception shed
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	Not applicable
15.Total Plot Area (sq. m.)	91,265.35 m2
16.Deductions	49,372.83 m2
17.Net Plot area	41,892.52 m2
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 7538.19
	b) Non FSI area (sq. m.): 3108.27
	c) Total BUA area (sq. m.): 10646.46
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):** -
	Approved Non FSI area (sq. m.): -
	Date of Approval: 01-01-1900
19.Total ground coverage (m2)	10646.46
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	25.41
21.Estimated cost of the project	969200000

22.Number of buildings & its configuration

Serial number	Building Name & number	Number of floors	Height of the building (Mtrs)
1	Modernization of Existing Structure	--	-
2	Pump House	-	-
3	Auction shed no. 1- to be modified in to auction hall 1- upgradation of sea water supply	Gr + 1	9
4	Auction shed no. 2- to be modified in to auction hall 2- upgradation of sea water supply	Gr + 1	9
5	Toilet block- - renovation	-	-
6	Electric Substation	-	-
7	Fresh water overhead tank	-	-
8	Existing building for management and maintenance block- remodelling	-	-
9	Fuel storage facility	GF	-
10	Open fish auction sheds	-	-
11	Custom office to be modified as ice crusher shed	-	-
12	Quay- strengthening	-	-
13	Drainage and sewerage system- modernization	-	-
14	Bilge water oil separation- modernization	GF	5
15	Spent oil and toxic waste reception shed- modernization	-	-
16	Internal road- modernization	-	-
17	Newly Proposed Structure	-	-
18	Auction hall no. 3	Gr + 1	9
19	High mast light- 7 nos.	-	-
20	Fisherman rest room- 213.50 sqm	GF	-
21	Ice plant and Chilled storage	GF + 1	7
22	Net mending shed (206.95 Sqm) Workshop – 100.45 sqm	-	-
23	Radio communication Tower, winch room and slipway	-	-
24	Fishery survey of Indian building, compound wall, Security gate- 2 nos.	-	-
25	Remodelling of outfitting activities- Fuel pump, storage capacity, ice crusher shed	-	-
26	Fixing bollards, mooring rings and used rubber tyre fenders	-	-
27	Maintenance dredging of old sasoon dock	-	-

23.Number of tenants and shops	-

24.Number of expected residents / users	10,000
25.Tenant density per hectare	250
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	9m
29.Existing structure (s) if any	Existing facilities in sassoon dock Pump house, Auction shed no.1,2 Toilet block-3no. Electrical Substation, fresh water overhead tank, existing building for management and maitenance block, Fuel storage facility, open fish auction shed, custom office, Quay, Drainage and sewerage system, Beilge water oil separation, spent & toxic waste reception shed
30.Details of the demolition with disposal (If applicable)	No. Demolishing Structure Quantities (m3) Management 1 Existing Auction Halls and Service Buildings 230 Cum Disposal at MCGM dump ground. 2 Structural Steel Work 700 (qntl) 3 Asbestos Sheets 3000 Sqm Disposal at MCGMdump ground.

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Fish handling	150000 TPA	150000 TPA	150000 TPA

32.Total Water Requirement

Dry season:	**Source of water**	MCGM
	Fresh water (CMD):	1560
	Recycled water - Flushing (CMD):	40 + floor washing 172
	Recycled water - Gardening (CMD):	40
	Swimming pool make up (Cum):	Not applicable
	Total Water Requirement (CMD) :	1812
	Fire fighting - Underground water tank(CMD):	Not applicable
	Fire fighting - Overhead water tank(CMD):	Not applicable
	Excess treated water	743

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	-	1672	1672	-	852	852	-	820	820
Domestic	-	100	100	-	20	20	-	80	80

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	NA
	Size and no of RWH tank(s) and Quantity:	NA
	Location of the RWH tank(s):	NA
	Quantity of recharge pits:	NA
	Size of recharge pits :	NA
	Budgetary allocation (Capital cost) :	NA
	Budgetary allocation (O & M cost) :	NA
	Details of UGT tanks if any :	Domestic UG tank Capacity (cum) : 800 Flushing tank Capacity(cum) 40 Fire UG tank Capacity (cum) -

35.Storm water drainage	**Natural water drainage pattern:**	N to S
	Quantity of storm water:	1000 Cum/ hr. at maximum rainfall
	Size of SWD:	250 mm
Sewage and Waste water	**Sewage generation in KLD:**	80 KLD will be generated in Sassoon dock + and additionally 95 KLD from MbPT will be treated in ETP
	STP technology:	Will be treated in ETP
	Capacity of STP (CMD):	-
	Location & area of the STP:	near botanical garden, 30 m X 30m
	Budgetary allocation (Capital cost):	Rs. 315 Lacs (ETP cost)
	Budgetary allocation (O & M cost):	Rs. 20 Lacs/year (ETP O &M cost)
36.Solid waste Management		
Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	1 Existing Auction Halls and Service Buildings 230 Cum Disposal at MCGM dump ground. 2 Structural Steel Work 700 (qntl) 3 Asbestos Sheets 3000 Sqm Disposal at MCGM dump ground.
	Disposal of the construction waste debris:	Disposal at MCGM dump ground.
Waste generation in the operation Phase:	**Dry waste:**	1 t/ day at peak time
	Wet waste:	5 t/day (fish waste during peak fish landing)
	Hazardous waste:	Beilge oil - 0.4 TPM and spent oil - 1.2 TPM
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	-
	Others if any:	NA
Mode of Disposal of waste:	**Dry waste:**	Collection & disposal to MCGM dump area
	Wet waste:	Stored in airtight container and sold to fish meal producers.
	Hazardous waste:	Disposal to MPCB authorized recycler
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	-
	Others if any:	NA
Area requirement:	**Location(s):**	Near Auction hall
	Area for the storage of waste & other material:	15 Sq.m.
	Area for machinery:	NA
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 40.00 Lacs
	O & M cost:	Rs. 2 Lacs/annum
37.Effluent Charecterestics		

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	PH	-	6.5 to 7.7	6.5 to 8.5	6.5 to 9
2	TSS	Mg/l	52 to 8050	10	10
3	BOD	Mg/l	32 to 260	10	10
4	COD	Mg/l	65 to 640	50	50

Amount of effluent generation (CMD):	995 (From sassoon dock 900 KLD + 95 KLD sewage MbPT)
Capacity of the ETP:	1 MLD
Amount of treated effluent recycled :	252
Amount of water send to the CETP:	NA
Membership of CETP (if require):	NA
Note on ETP technology to be used	MBBR
Disposal of the ETP sludge	will be used as manure in MbPT garden

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Beilge Oil	5.1	T/month	-	0.4 T/month	0.4	Disposal to MPCB authorized recycler
2	Spent Oil	5.1	T/month	-	1.2 T/month	1.2	Disposal to MPCB authorized recycler

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	630 KVA	HSD @130 Lts/ Hr.	1	2m. above buildin g. i.e. 12 m.	300mm	450 to 500 degree Cat exhaust point.

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	Diesel	Diesel	Diesel

41.Source of Fuel	Diesel
42.Mode of Transportation of fuel to site	by road

43.Green Belt Development

Total RG area :	2500
No of trees to be cut :	-
Number of trees to be planted :	500
List of proposed native trees :	All
Timeline for completion of plantation :	2.5 year

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	Samania saman	Rain Tree	100	Semi-evergreen tree with medicinal value
2	Peltophorum pterocarpum	Copper Pod Tree	50	Shady, large deciduous tree, fast-growing graceful tree, ball shaped flowers.
3	Alstonia scholars	Saptaparni	50	evergreen tropical tree in the family Apocynaceae
4	Polyalthia longifolia	Ashok	100	Medium sized evergreen tree, fragrant yellow flowers, Butterfly host plant
5	Pongamia pinnata	Karanj	50	Shady tree.
6	Bauhinea purpurea	Apta / Kanchan	50	Small tree with small white flowers, Butterfly host plant
7	Saraca asoka	Sita Ashok	50	Shady tree with red-yellow flowers.
8	Terminalia catapa	Desi Badam	50	flowering plant
45.Total quantity of plants on ground				

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

Serial Number	Name	C/C Distance	Area m2
1	-	-	-

47.Energy

Power requirement:	**Source of power supply :**	B.E.S.T.
	During Construction Phase: (Demand Load)	100 KW
	DG set as Power back-up during construction phase	NIL
	During Operation phase (Connected load):	2077 KW
	During Operation phase (Demand load):	2150 KW
	Transformer:	2 x 1600kVA + 2 x 500 kVA (Total- 4200 installed kVA)
	DG set as Power back-up during operation phase:	630 KVA
	Fuel used:	Diesel
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Electricity approximately of 750 KW - 30%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Electricity approximately of 750 KW	30 %

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Effluent	-	ETP
Sewage	-	ETP
DG set	-	Stack

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Rs. 600 Lacs
	O & M cost:	Rs. 12 Lacs/annum

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Air	Air & Noise Monitoring	0.48
2	Water	Tanker water for construction	6.0
3	Water	Water Monitoring	0.6
4	Socio- Economic Environment	Disfection Pest Control	0.18
5	Socio- Economic Environment	First Aid facilities	0.6
6	Socio- Economic Environment	Health Check up	0.2
7	Socio- Economic Environment	Personal Protective Equipment	1.2

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	ETP	ETP	Rs. 315	Rs. 20
2	Solid waste Management	Solid waste Management	Rs. 40	Rs. 2
3	Energy saving	Energy saving	Rs. 600	Rs. 12
4	Environment Monitoring	Environment Monitoring	-	Rs. 5.00
5	Emission Control Measures	Emission Control Measures	Rs. 2.00	Rs. 0.5
6	Green Belt	Green Belt	Rs. 2.00	Rs. 0.5

51.Storage of chemicals (inflamable/explosive/hazardous/toxic substances)

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
Diesel	Liquid	Near MbPT garden	4,00,000 lit	375000 lit	6150 KL	By authorised Vendor	By road

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	3
Parking details:	**Number and area of basement:**	NA
	Number and area of podia:	NA
	Total Parking area:	2269.11
	Area per car:	NA
	Area per car:	NA
	Number of 2-Wheelers as approved by competent authority:	-
	Number of 4-Wheelers as approved by competent authority:	202 , Transport Vehicle - 72
	Public Transport:	B.E.S.T.
	Width of all Internal roads (m):	10 to 12 m
	CRZ/ RRZ clearance obtain, if any:	CRZ Recommendation Obtained
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA
	Category as per schedule of EIA Notification sheet	Categary 7 (e)
	Court cases pending if any	No

	Other Relevant Informations	SEAC I awarded Terms of Reference during 136th meeting dated 7th October 2016 MCZMA recommended the proposal from CRZ point of view during 117th meeting dated 5th April 2017 Public Hearing was conducted on 21st August 2017 Water supply permission was obtained from MCGM on 11th January 2018 Proposal submitted for EIA appraisal on 16th March 2018 SEIAA-STATEMENT-0000001091
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	27-09-2016

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

Environmental Impacts of the project	PP submitted EIA report to the committee. Various aspects of the Environment are discussed in the report. PP has conducted base line data collection for Air, Water, Soil & Noise parameters as per EIA Notification, 2006 amended from time to time. PP proposes ETP of 1 MLD capacity.
Water Budget	PP submitted water budget calculations in the EIA report and also indicated water requirement at Sr. No 33 of the Consolidated Statement.
Waste Water Treatment	PP proposes ETP of 1 MLD capacity.
Drainage pattern of the project	Not Applicable
Ground water parameters	Not Applicable
Solid Waste Management	PP indicated waste management at Sr. No 38 of the Consolidated Statement.
Air Quality & Noise Level issues	As per data submitted by PP Air Quality and Noise parameters are within the prescribed limits at project site.
Energy Management	The electrical demand for proposed project is 2077 KW, which will be supplied byBEST. PP proposes 630 KVA DG Sets.
Traffic circulation system and risk assessment	PP has indicated in the lay out plan total 2269. 11 Sq.m. area for parking
Landscape Plan	Not Applicable at this stage.
Disaster management system and risk assessment	PP to prepare and implement the Disaster Management plan.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes 9.26 Lakh/Yr. EMP cost.
Any other issues related to environmental sustainability	PP to take utmost care to keep dock clean and odor free.

Brief information of the project by SEAC

PP submitted their application for the grant of prior Environment Clearance under category 7(e)B1 of the EIA Notification 2006 amended time to time.

ToR was granted by SEAC-I in their 136th meeting held on 07.10.2016. PP also obtianed CRZ clearance from MCZMA in their 117th meeting held on 05.04.2017.

The Public Consultation was conducted on 21.08.2017.

PP informed that, the present condition of Sasoon Dock fishery harbour is such that with the operating fishing fleet far exceeds the design capacity. Dock is dirty, filthy, bad smelling place where the fish hygiene and sanatory conditions are worsening day by day. Proposed modernization will be in a systematic manner following modular concept taking into account prevailing conditions.

Now PP submitted EIA/EMP reprot and Public Consultation reprot to the SEAC for appraisal.

DECISION OF SEAC

After deliberations with the PP and his accredited consultant , SEAC decied to recommend the proposal for prior Evironment Clearance to the SEIAA subject to the following conditions.

Specific Conditions by SEAC:

1) PP to submit consent obtained from Mumbai Port Trust for proposed development.
2) PP to ensure to comply with the conditions stipulated in the MCZMA clearance.
3) PP to submit copy of permission/NOC obtained from MCGM for discharge of 743 KLD treated waste water in the common drains. PP also to submit NOC for dumping of construction debris on the MCGM dumping ground.
4) PP to submit their plan to utilize CER (Corporate Environment Responsibility) along with timelines as per OM issued by MoEF&CC dated 01.05.2018.

FINAL RECOMMENDATION

SEAC-I have decided to recommend the proposal to SEIAA for Prior Environmental clearance subject to above conditions