153rd (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd A (Day-2) **Meeting Date** July 26, 2018

Subject: Environment Clearance for Environmental Clearance for proposed expansion of M/s. Halides Chemicals Pvt. Ltd. from 636 MT/Year to 3407.26MT/Year

Is a Violation Case: No

1.Name of Project	M/s. Halides Chemicals Pvt. Ltd.
2.Type of institution	Private
3.Name of Project Proponent	Mr. Sanket .D. Nigudkar
4.Name of Consultant	Building Environment (India) Pvt. Ltd.
5.Type of project	Industrial Estate-Industry 5 (f) Category
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, As per the EIA Notification the existing project does not need Environmental Clearance
8.Location of the project	Plot No. A-2, MIDC Kurkumbh, Taluka -Daund, Pune
9.Taluka	Daund
10.Village	Not Applicable
Correspondence Name:	Mr. Sanket .D. Nigudkar
Room Number:	Not Applicable
Floor:	Not Applicable
Building Name:	Neelashri
Road/Street Name:	Off Paud Road
Locality:	Kothrud
City:	Pune
11.Area of the project	Kurkumbh MIDC Area
12.IOD/IOA/Concession/Plan Approval Number	No Industry has applied for revised layout
	IOD/IOA/Concession/Plan Approval Number: No Industry has applied for revised layout
	Approved Built-up Area: 2852.55
13.Note on the initiated work (If applicable)	It is an already existing industry and is in operation since 1995. No activity has been initiated for the proposed expansion.
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	4050.00 Sq. m.
16.Deductions	Not applicable
17.Net Plot area	4050.00 Sq. m.
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** 1402.23
	b) Non FSI area (sq. m.): Not Applicable
	c) Total BUA area (sq. m.): 1402.23
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)	1402.23
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	34%
21.Estimated cost of the project	90500000

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
2	Not Applicable	Not applicable	Not applicable

23.Number of tenants and shops	Not applicable as it is an industry
24.Number of expected residents / users	This is an industry and Total expected population shall be 50
25.Tenant density per hectare	Not applicable as it is an industry
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	9
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Turning radius is 9 m
29.Existing structure (s) if any	This is an expansion project in terms of production. All the buildings are already constructed and are in operation . Construction of sheds, storage tanks will be done
30.Details of the demolition with disposal (If applicable)	Not applicable as no demolition activity will be carried out

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	N- Bromosuccinimide	360.00	60.00	420.00
2	N-Chlorosuccinimide	240.00	-120	120
3	N-Iodosuccinimide	36.00	00	36.00
4	Bromo OTBN (2-cyano-4-Bromomethyl biphenyl)	0.00	600.0	600.0
5	2-Bromopropionic Acid	0.00	180.0	180.0
6	Propionyl bromide	0.00	180.0	180.0
7	N- Hexyl bromide	0.00	240.0	240.0
8	tert- Butyl bromoacetate	0.00	240.0	240.0
9	Sodium Bromide Solution	0.00	977.808	977.808
10	Hydrogen Bromide Solution in water	0.00	703.560	703.560
11	Spent Iodine	0.00	21.528	21.528
12	phosphorous Acid	0.00	84.3684	84.3684

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	42.83
	Recycled water - Flushing (CMD):	0.00
	Recycled water - Gardening (CMD):	4.9
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	61.54
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Wet season:	**Source of water**	MIDC
	Fresh water (CMD):	42.83
	Recycled water - Flushing (CMD):	0.00
	Recycled water - Gardening (CMD):	0.00
	Swimming pool make up (Cum):	NA
	Total Water Requirement (CMD) :	61.54
	Fire fighting - Underground water tank(CMD):	200
	Fire fighting - Overhead water tank(CMD):	NA
	Excess treated water	NA
Details of Swimming pool (If any)	Swimming pool 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	10.50	0	10.5	2.1	Nil	2.1	8.4	0	8.4
Cooling tower & thermopack	0.2	30.39	30.5	0.00	29.89	29.89	0.0	0.603	0.603
Industrial Process	7.0	8.55	15.55	1.5	0.55	2.05	5.5	8.0	13.5
Gardening	0.0	4.9	4.9	0.0	0.0	0.0	0.0	0.0	0.0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	50-100m
	Size and no of RWH tank(s) and Quantity:	1 tank of 2.5 m*2.5m*3.20 m
	Location of the RWH tank(s):	Behind parking 2; Near Security cabin
	Quantity of recharge pits:	Not Applicable
	Size of recharge pits :	Not Applicable
	Budgetary allocation (Capital cost) :	100000
	Budgetary allocation (O & M cost) :	12002
	Details of UGT tanks if any :	Two UG tanks are installed : UG water tank of 30,000 Litres capacity is installed for domestic use UG water tanks of 20,000 Litres capacity is installed for fire fighting purpose
35.Storm water drainage	**Natural water drainage pattern:**	Yes
	Quantity of storm water:	543.13
	Size of SWD:	width -340 mm ; depth-260 mm
Sewage and Waste water	**Sewage generation in KLD:**	8.4 KLD
	STP technology:	Currently having Septic tank. Industry has proposed STP with MBBR Technology for proposed expansion
	Capacity of STP (CMD):	1 (Proposed)- 15 CMD
	Location & area of the STP:	Behind L.D.O storage/furnace oil tank
	Budgetary allocation (Capital cost):	85.0 Lakh (Existing +Proposed)
	Budgetary allocation (O & M cost):	6 Lakh (Existing +Proposed)

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Construction debris
	Disposal of the construction waste debris:	Industry is already in operation. PP has proposed construction of sheds, storage tanks. Waste likely to generate is concrete which will be very less. The waste will be utilised within site for internal roads, higher plinth and filling low laying areas.
Waste generation in the operation Phase:	**Dry waste:**	Paper bags: 21000 Nos./Y, Fibre Drum with Lids- 19632 Nos./Y, HDPE Drums -5220 Nos./Y
	Wet waste:	No wet waste is generated
	Hazardous waste:	Used/ Spent Oil - 800 lit/Y; Spent Catalyst / spent Carbon- 4500 kg/Y; Chemical Sludge from Waste Treatment Plant- 410 Ton/Y, Salt Solution - 78 Ton/Y
	Biomedical waste (If applicable):	No Bio-medical waste is generated
	STP Sludge (Dry sludge):	0.15 Ton/Y
	Others if any:	Not Applicable

Mode of Disposal of waste:	**Dry waste:**	Paper bags and fibre drums will be sold to Authorized recycler ; HDPE drums will be used to refill byproduct; STP sludge will be used as manure
	Wet waste:	Not Applicable
	Hazardous waste:	Used spent oil will be disposed off to Authorized Re-processor; Spent Catalyst, Chemical sludge from waste water and salt solution will be disposed to CHWTSDF
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Will be used as manure
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	Near STP plant; Behind Boiler room
	Area for the storage of waste & other material:	Separate Hazardous Waste storage area, Segregated metallic scrap yard, Segregated paper and plastic scrap yard is made for storage of waste
	Area for machinery:	Not Applicable
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	Nil
	O & M cost:	Nil

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	NA	7.22	6.49	5.5-9.0
2	TSS	mg/Lit	<10.0	<10.0	<=100.0
3	BOD	mg/Lit	4400	<10.0	<=100.011
4	COD	mg/Lit	32765.96	34.48	<=250.0
5	Sulphates	mg/Lit	26891.66	<1.0	<1000
6	Chlorides	mg/Lit	8590.91	6.0	<=600

Amount of effluent generation (CMD):	14.103 CMD
Capacity of the ETP:	16.0 CMD
Amount of treated effluent recycled :	13.81 CMD
Amount of water send to the CETP:	Waste water generated in industry is recycled and used for various other processes, gardening etc.
Membership of CETP (if require):	Yes; Industry has obtained CETP membership
Note on ETP technology to be used	Industry has provided RO + MEE of capacity 16.0 CMD
Disposal of the ETP sludge	ETP sludge generated will be disposed to CHWTSDF

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Used/Spent Oil	5.1	Lit/Y	100	700	800	Autho. Re-processor
2	Spent catalyst/Spent carbon	28.2	Kg/Y	100	4400	4500	CHWTSDF
3	Chemical Sludge from wastewater treatment	34.3	Ton./Y	360	50	410	CHWTSDF
4	Salt Solution	34.3	Ton/y	Nil	78	78	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	Boiler 750kg/Hr	Furnace Oil; 1000 Lit/Day	1	10	0.254	137
2	Boiler+Thermopack 600 kg/Hr	LDO; 1450 Lit/Day	2	14	0.254	110
3	Bromination/Chlorination	Not applicable	3	6	0.1016	54
4	Imide Formation	Not Applicable	4	4.5	NA	NA
5	Drying Section	Not Applicable	5	4.5	NA	NA
6	D. G Set 160 KVA	Diesel	6	2.5	0.1016	112
7	D.G Set 62.5 KVA	Diesel	7	2.5	0.1016	112

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Diesel	37 Lit/Hr	Nil	37 Lit/Hr
2	L.D.O	1000 Lit/Day	Nil	1000 Lit/Day
3	Furnace Oil	1450 Lit/Day	Nil	1450 Lit/Day
41.Source of Fuel		Industry /Market		
42.Mode of Transportation of fuel to site		Fuel is brought to site by tankers		

43.Green Belt Development	**Total RG area :**	457.40 Sq. m
	No of trees to be cut :	Not Applicable
	Number of trees to be planted :	Existing - 37; Proposed - 7
	List of proposed native trees :	List of proposed trees is given below
	Timeline for completion of plantation :	Industry is already having 37 trees planted in project area and has proposed plantation of 7 trees after obtaining 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	Neem	Azadiractha Indica	5	Neem has emerged to be an ideal source for insecticide and pesticide
2	Sisam	Dalbergia sissoo	1	Sissam enriches soil due to presence of nitrogen fixing bacteria in roots
3	Leman	C. Limon	1	Lemon are rich source of Vitamin C and due to antibacterial and immune stimulant re used in medicinal use
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)	Not applicable as industry is already under operation
	DG set as Power back-up during construction phase	Industry is already having D.G.Set of 62.5 KVA
	During Operation phase (Connected load):	140 KW
	During Operation phase (Demand load):	150 KW (Existing -120 KW +Proposed 30 KW)
	Transformer:	200 KVA
	DG set as Power back-up during operation phase:	160 KVA (Existing DG Set of 62.5 KVA shall be replaced by 160 KVA)
	Fuel used:	37 Lit/Hr
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Halides Chemicals have taken the effort to use natural resources available such as solar heat and light. They have installed solar water heating system which gives heated water for boiler input so that the fuel load of the boiler reduces thereby reducing the pollution. The industry is also using solar street light to lighten up the internal road.

Reduction in energy consumption:8-10%
REduction in fuel consumption:10-11%

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Reduction in energy consumption	8-10%
2	Reduce in fuel consumption	10-11%

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
DG Set 160 KVA	Acoustic enclosure with adequate height	Not applicable
Boiler 1 [750 kg/hr]	Adequate height	Not applicable
Boiler +Thermopack 600 kg	Adequate height	Not applicable
Chlorine Section	Gas Leak System	Not applicable
Bromine Section	Gas Leak System	Not applicable

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	1320000
	O & M cost:	50000

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Not Applicable as industry is already under operation	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 System	Existing +Proposed cost	15	1
2	Water Pollution Control Systems	Existing +Proposed Cost	85.0	6
3	Noise Pollution Control	Existing +Proposed	9.0	0.50
4	Green Belt Development / Maintenances	Exiting +Proposed	2.0	0.25
5	Environmental Monitoring/Environmental Management	Exiting +Proposed	0.00	2.0
6	Occupational health and safety	Exiting +Proposed	4.0	1.5
7	Solid Waste Management	Exiting +Proposed	1.0	0.5
8	Rain Water Harvesting	Exiting +Proposed	1.0	0.12
9	Energy Saving Measures	Exiting +Proposed	13.20	0.50

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
Acetic Acid	Liquid	Proposed Storage	2.0	2.0	4.0	Industry/Market	By Road
Chlorine	Gas	900kg Tonner	0.9	0.9	1.8	Industry/Market	By Road
Chlorine	Gas	900kg Tonner	0.9	0.9	1.8	Industry/Market	By Road
Chlorine	Gas	900kg Tonner	0.9	0.9	1.8	Industry/Market	By Road
OTBN	Liquid	RM Store	9.0	9.0	40.0	Industry/Market	By Road
AIBN	Solid	RM Store	0.1	0.1	1.35	Industry/Market	By Road
Propionic Acid	Liquid	RM Store	5.0	5.0	15.74	Industry/Market	By Road
Red Phosphorous	Solis	RM Store	1.0	1.0	2	Industry/Market	By Road
Phospohrous Tribromide	Liquid	RM Store	1.0	1.0	9.0	Industry/Market	By Road
n-Hexanol	Liquid	RM Store	1.0	1.0	13.02	Industry/Market	By Road
Acetyl Bromide	Liquid	RM Store	1.0	1.0	13.62	Industry/Market	By Road
Tert Butanol	Liquid	RM Store	5.0	5.0	10	Industry/Market	By Road
N-BromoSuccinimide	Solid	FG Store	15.0	15.0	30	Industry/Market	By Road
N-Chlorosuccinimide	Solid	FG Store	5.0	5.0	10	Industry/Market	By Road
N-IodoSuccinimide	Solid	FG Store	0.1	0.1	0.2	Industry/Market	By Road

Bromo OTBN	Solid	FG Store	5.0	5.0	10	Industry/Market	By Road
2 Bromo Propionic Acid	Liquid	FG Store	5.0	5.0	10	Industry/Market	By Road
Propionyl Bromide	Liquid	FG Store	1.0	1.0	2.0	Industry/Market	By Road
N-Hexyl Bromide	Liquid	FG Store	1.0	1.0	2.0	Industry/Market	By Road
Tert Butyl Bromo Acetate	Liquid	FG Store	1.0	1.0	2.0	Industry/Market	By Road
Spent Iodide	Crystalline	FG Store	0.3	0.3	0.6	Industry/Market	By Road
H3PO3	Solid	RM Store	2.0	2.0	4.0	Industry/Market	By Road
Diesel	Liquid	DG Set Tank	0.4	0.4	08	Industry/Market	By Road
Furnace Oil	Liquid	FO Tank	10.0	10.0	20.0	Industry/Market	By Road
LDO	Liquid	LDO Storage	5.0	5.0	10.0	Industry/Market	By Road
Sodium Bromide Soultion	Liquid	Conc. Effluent Tank	10.0	10.0	20.0	Industry/Market	By Road
Methylene Dichloride	Liquid	Near HBr Storage Tnank	10.0	10.0	59.2	Industry/Market	By Road
Caustic Soda Iye	Solid	Storage Tank	17.0	17.0	34.0	Industry/Market	By Road
Ethylene Dichloride	Liquid	Storage Tank	12.5	12.5	25.0	Industry/Market	By Road
Sulphuric Acid	Liquid	Storage Tank	10.0	10.0	20.0	Industry/Market	By Road
Succinic Acid	Solid	Proposed Shed	20	20	43.05	Industry/Market	By Road
Iodine	Crystalline Solid	Proposed Shed	0.5	0.5	3.6	Industry/Market	By Road
Liquid Bromine	Liquid	Proposed Storage Shed	10.80	10.80	96.172	Industry/Market	By Road
Sodium Bromate	Solid	Proposed Storage Shed	4.0	4.0	14.0	Industry/Market	By Road
Succinimide	Solid	Proposed Storage	5.0	5.0	10.0	Industry/Market	By Road

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:	495.69 Sq. m
	Area per car:	12.5 Sq. m.
	Area per car:	12.5 Sq. m.
	Number of 2-Wheelers as approved by competent authority:	20
	Number of 4-Wheelers as approved by competent authority:	2
	Public Transport:	Not Applicable
	Width of all Internal roads (m):	Approx. 6 metre
	CRZ/ RRZ clearance obtain, if any:	Not Applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	No protected areas near project site
	Category as per schedule of EIA Notification sheet	Category B: 5 (f)
	Court cases pending if any	Not Applicable
	Other Relevant Informations	Not Applicable
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	24-08-2017

SEAC DISCUSSION ON ENVIRONMENTAL ASPECTS

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

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

Brief information of the project by SEAC

PP obtained ToR from EAC, MoEF&CC on 13-14 August, 2015.

PP submitted their EIA/EMP reprot on 23.05.2018, the proposal was considered in the 151st meeting of SEAC-1 held on 24.05.2018. As EIA/EMP was submitted just before the meeting the proposal was deferred as it was not studied by the expert memb

DECISION OF SEAC

During deliberations it was observed that PP has not complied with the ToR points given by the MoEF&CC.

In view of above SEAC decided to defer the proposal till PP submits compliance of points rasied in the ToR.

Hence ,Deferred

Specific Conditions by SEAC:

FINAL RECOMMENDATION

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

153rd (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd A (Day-2) **Meeting Date** July 26, 2018

Subject: Environment Clearance for Proposed expansion of existing Synthetic Organic chemicals manufacturing facility by Galaxy Laboratories Pvt. Ltd., Plot No. B-10, MIDC Newasa, Tukai- Shingve, Dist. Ahmadnagar

Is a Violation Case: No

1.Name of Project	Proposed expansion of existing Synthetic Organic chemicals manufacturing facility by Galaxy Laboratories Pvt. Ltd., Plot No. B-10, MIDC Newasa, Tukai- Shingve, Dist. Ahmadnagar
2.Type of institution	Private
3.Name of Project Proponent	Galaxy Laboratories Pvt. Ltd.
4.Name of Consultant	Aditya Environmntal Services Pvt. Ltd.
5.Type of project	Industrial
6.New project/expansion in existing project/modernization/diversification in existing project	Expansion in existing manufacturing facility
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	Yes. Existing Environment clearance- EC letter No. SEIAA-EC-0000000048 dated 24th April 2017
8.Location of the project	Plot No. B-10, MIDC Newasa, Ahmadnagar
9.Taluka	Newasa
10.Village	Shigve tukai
Correspondence Name:	Mr. Shrikant Deshmukh
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	--
Locality:	Ahmednagar
City:	Ahmednagar
11.Area of the project	MIDC Newasa
12.IOD/IOA/Concession/Plan Approval Number	MIDC approval
	IOD/IOA/Concession/Plan Approval Number: MIDC approval
	Approved Built-up Area: 17717.05
13.Note on the initiated work (If applicable)	Not applicable
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	MIDC plot plan approval
15.Total Plot Area (sq. m.)	48,400 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.):
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)	--
21.Estimated cost of the project	0

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)	Min. 6 m
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Min. 9 m
29.Existing structure (s) if any	Existing Unit is already operating Hydrogen manufacturing facility at site which is not covered under EIA notification, 2006. In present scenario construction work is in progress as per existing environment clearance & Consent to establish.
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	Hydrogen gas	250 Nm3/Hr	0	250 Nm3/Hr
2	Furfuraldehyde (Furfural)	50	0	50
3	Furfural alcohol	30	0	30
4	Furfuryl amine	40	0	40
5	Cyclohexenyl Ethyl amine (CHEA)	10	0	10
6	Triclabendazole (Crude)	8.4	0	8.4
7	5-Chloro-4-Amino-2,1,3 Benzothidiazole	2	0	2
8	2-Furoic acid	5	0	5
9	Betaphenyl Ethyl Amine (BPEA)	20	0	20
10	Polly Allylamine Hydrochloride (PAAH)	13.5	0	13.5
11	Chlorohexanone (6-Chloro-2-Hexanone)	20	0	20
12	Furan	50	0	50

13	Cinnamyl alcohol	0	50	50
14	Phenyl Propanol	0	20	20
15	Allylamine	0	5	5
16	Anethole	0	20	20
17	Spent acid (By product)	42.5	0	42.5
18	Sodium hydrosulphide solution (By product)	15.6	31	46.6
19	Potassium bromide salt solution (By product)	185.5	0	185.5
20	Polyaluminium Chloride solution (PAC) (16% w/w of Al2O3) (By product)	0	135.75	135.75

32.Total Water Requirement

Dry season:	**Source of water**	MIDC
	Fresh water (CMD):	93 cmd (as per existing EC letter)
	Recycled water - Flushing (CMD):	--
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	165 cmd (Fresh water-93 cmd + Recycle water- 72 cmd) (as per existing EC letter)
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--
Wet season:	**Source of water**	--
	Fresh water (CMD):	--
	Recycled water - Flushing (CMD):	--
	Recycled water - Gardening (CMD):	--
	Swimming pool make up (Cum):	--
	Total Water Requirement (CMD) :	--
	Fire fighting - Underground water tank(CMD):	--
	Fire fighting - Overhead water tank(CMD):	--
	Excess treated water	--

Details of Swimming pool (If any)	--

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	28	0	28	3	0	3	25	0	25
Industrial Process	20	0	20	0	0	0	20	0	20
Cooling tower & thermopack	89	0	89	62	0	62	27	0	27
Gardening	28	0	28	28	0	28	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	--
	Size and no of RWH tank(s) and Quantity:	1 no. of RWH tank of 12 x 12.5 x 2 m of 302 KL capacity
	Location of the RWH tank(s):	Near main gate
	Quantity of recharge pits:	--
	Size of recharge pits :	--
	Budgetary allocation (Capital cost) :	10 Lakh as per existing EC
	Budgetary allocation (O & M cost) :	1 Lakh per annum as per existing EC
	Details of UGT tanks if any :	Not applicable
35.Storm water drainage	**Natural water drainage pattern:**	--
	Quantity of storm water:	--
	Size of SWD:	--

Sewage and Waste water	**Sewage generation in KLD:**	25 cmd
	STP technology:	Not applicable. Sewage will be added in Aeration tank for treatment in existing ETP.
	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:**	Minor quantity of debris will be generate.
	Disposal of the construction waste debris:	Construction wast debris will be reused for levelling of plot.
Waste generation in the operation Phase:	**Dry waste:**	Fly ash- 1850 TPA, Spent corn cob- 5000 TPA
	Wet waste:	--
	Hazardous waste:	ETP sludge, Distillation Residue, Chlorinated Distillation Residue, Contaminated filter/ Bags, Process residue (iron sludge) , Spent Catalyst , Spent Charcoal, Contaminated Drums/ Barrels/ liners
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Mode of Disposal of waste:	**Dry waste:**	Fly ash will be sent to brick manufacturer / secured landfill. Spent corn con will be burnt as fuel in boiler/ Thermic Fluid heater.
	Wet waste:	--
	Hazardous waste:	Hazardous waste will be disposed off as per Hazardous waste rule 2016.
	Biomedical waste (If applicable):	Not applicable
	STP Sludge (Dry sludge):	Not applicable
	Others if any:	Not applicable
Area requirement:	**Location(s):**	As per norms
	Area for the storage of waste & other material:	As per norms
	Area for machinery:	--
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	2 lakh (as per existing EC)
	O & M cost:	5 lakh pr annum (as per existing EC)

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	pH	--	6-9	6.5-9	6.5-9
2	Chemical oxygen demand	mg/L	2500-3000	< 250	< 250

3	Biological oxygen demand	mg/L	1000-1500	<100	<100
4	Total Dissolved solids	mg/L	1100-1200	< 2100	2100
5	Total suspended solids	mg/L	150-200	< 100	100
6	Oil & Grease	mg/L	< 10	< 10	10
7	Chlorides	mg/L	250-300	< 600	600
8	Sulphates	mg/L	250-300	< 1000	< 1000

Amount of effluent generation (CMD):	72 cmd
Capacity of the ETP:	75 cmd
Amount of treated effluent recycled :	72 cmd
Amount of water send to the CETP:	Not applicable. Unit will maintain ZERO LIQUID DISCHARGE FACILITY.
Membership of CETP (if require):	Not applicable
Note on ETP technology to be used	Pre- treatment tank > Oil & Grease trap > Collection tank > Fenton treatment > Neutralization tank > Pri. clarifier > Aeration tank > Sec. clarifier > Sand filter > Activated carbon filter > Treated water collection tank
Disposal of the ETP sludge	Not applicable

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Chemical sludge from waste water treatment	35.3	TPA	30	0	30	CHWTSDF
2	Distillation Residue	20.3	TPA	275	150	425	CHWTSDF/ Used as Fuel in Boiler
3	Distillation Residue (chlorinated)	20.3	TPA	25	0	25	CHWTSDF
4	Contaminated filter/ Bags	33.2	TPA	2	0	2	CHWTSDF
5	Process residue (iron sludge)	28.1	TPA	45	0	45	CHWTSDF
6	Spent Catalyst	28.2	TPA	225	20	245	CHWTSDF/ Authorized Recycler/ Return to manufacturer
7	Spent Charcoal	28.3	TPA	40	0	40	CHWTSDF/ Used as Fuel in Boiler
8	Contaminated Drums/ Barrels/ liners	33.1	Nos./A	500	300	800	MPCB authorized Drum 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	Thermopac (Existing)	Coal- 240 kg/day	1	30	--	--
2	Reactor (Existing)	--	2	11	--	--
3	320 KVA DG set (Existing)	HSD- 64 Lit/Hr	3	3.5	--	150
4	3 TPH Boiler (Existing)	Coal- 15 TPD	4	30	0.6	180

5	6 lacKcal/Hr thermic fluid heater (Existing)	Furnace oil- 1.7 TPD	5	30	0.35	240
6	HCl scrubber (Existing)	--	6	18	--	ambient temp
7	Ammonia scrubber (Existing)	--	7	18	--	ambient temp
8	H2S scrubber (Existing)	--	8	18	--	ambient temp
9	320 KVA DG set (Proposed)	HSD- 64 Lit/Hr	9	3.5	--	150

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	15.24 TPD	0	15.24 TPD
2	Furnace oil	1.7 TPD	0	1.7 TPD
3	HSD	64 Lit/Hr	64 Lit/Hr	128 Lit/Hr
41.Source of Fuel		From nearby vendors		
42.Mode of Transportation of fuel to site		By road		

43.Green Belt Development	**Total RG area :**	Green belt: 11,718.63 sq.m
	No of trees to be cut :	Not applicable
	Number of trees to be planted :	as per green belt development
	List of proposed native trees :	--
	Timeline for completion of plantation :	as per project planning

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	--	--	--	--
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 :**	Maharashtra State Electricity Distribution Co. Ltd.
	During Construction Phase: (Demand Load)	320 KVA
	DG set as Power back-up during construction phase	320 KVA DG set (in case of emergency)
	During Operation phase (Connected load):	320 KVA
	During Operation phase (Demand load):	320 KVA
	Transformer:	Not applicable
	DG set as Power back-up during operation phase:	2 nos. of 320 KVA DG set (in case of emergency)
	Fuel used:	HSD: 64 Lit/Hr each DG set (in case of emergency)
	Details of high tension line passing through the plot if any:	Not applicable

48.Energy saving by non-conventional method:

--

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	--	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Air pollution	Dust collector/ Bag filter & Adequate stack height	--
Water pollution	Effluent treatment plant	--
Solid & Hazardous waste	Disposed of to CHWTSDF/ Recyclr	--
Noise pollution	Enclosure/ PPE	--

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	10 Lakhs (as per existing EC)
	O & M cost:	--

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

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

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	Air Pollution Control (as per existing EC)	20	2
2	Monitoring	Environment Monitoring (as per existing EC)	5	2
3	Water	Water Pollution Control (as per existing EC)	45	5
4	Solid waste	Hazardous waste & Solid waste management (as per existing EC)	2	5
5	Green Belt	Green Belt development (as per existing EC)	2	3
6	Health & safety	Occupational health & safety (as per existing EC)	--	2
7	CSR activities	Social welfare & upliftment (as per existing EC)	--	12
8	Other Green Initiatives	Rain Water Harvesting (as per existing EC)	10	1
9	Other Green Initiatives	Solar Power/LED (as per existing EC)	5	--
10	Other Green Initiatives	Energy Conservation (as per existing EC)	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
Methanol	Existing	within plot	5 Nos. each 15 KL	75 KL	132	Nearby source	By road tanker
Hydrogen gas	Existing	within plot	120 Nos. (2.49 kg per cylinder)	299 Kg	3.5	Nearby source	Pipeline
Toluene	Existing	within plot	2 Nos. each 15 KL	30 KL	1.4	Nearby source	By road tanker
Furnace oil	Existing	within plot	1 Nos. of 15 KL	15 KL	51	Nearby source	By road tanker

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not applicable
Parking details:	**Number and area of basement:**	Not applicable
	Number and area of podia:	Not applicable
	Total Parking area:	4842.51 sq.m
	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):	Min 6 m
	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	5 (f)- B
	Court cases pending if any	Not applicable
	Other Relevant Informations	Galaxy Laboratories Pvt. Ltd. applied for Environmental clearance for various products under Category 5(f)- B as per EIA notification, 2006, in October 2015 (Proposal No. SIA/MH/IND2/3422/2015) and received the Environmental clearance on 24th April 2017 vide EC letter No. SEIAA-EC-0000000048 from SEIAA, Maharashtra. We wish to increase our manufacturing capacity within existing facility. We request you to kindly allow us to re-use earlier Baseline monitoring data of Winter 2015-16 for Preparation of EIA report for Proposed expansion project as per MoEFCC OM no. J-11013/41/2006-IA-II (I) (Part) dated 29th August 2017. We request you to permit us as said above.
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	16-12-2017

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 for effleunt treatment. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on 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 which will be supplied by the MIDC.
Waste Water Treatment	PP proposes Zero Liquid Discharge for proposed project.
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. PP to obtain permission from CGWA in case they have to use ground water as per Public Notice issued by Ministry of Water Resources on 29.06.2018.
Solid Waste Management	The construction waste will be reused for levelling of the plot. Fly ash will be sent to brick manufactureres. Apent corn will be burnt in the boiler /thermic fluid heater. Hazardous waste will be sent for dispsoal to CHWTSDF facility.
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 320 KVA, which will be supplied by MSEDCL. PP also proposes two numbers of 320 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP proposes 4842 Sq. m. area for parking along with six meter wide internal roads.
Landscape Plan	PP proposes to provide 33% green belt.
Disaster management system and risk assessment	PP carried out HAZOP and provided measures to handle an emergency situations.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes Rs. 94 Lakhs as capital EMP cost and Rs. 32 Lakhs 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 issued by MoEF & CC published in April, 2015.

PP has obtained earlier EC vide No. 00000048 dated 24.07.2017

PP also submitted the certified complaince report received from the Regional Office of MoEF &CC dated 15.01.2018.

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

PP to carryout base line monitoring activity after grant of ToR and use the same of the preparation of the EIA/EMP report.

ToR was granted to the PP in 146th meeting of SEAC-1 held on 30.01.2018 subject to the additional ToR points.

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, quantity of air/solid/liquid /hazardous wastes generation 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 submit detailed water balance calculation showing water required for each activity, water required for domestic use , generation of waste water and its treatment and disposal mechanism along with design of Effluent Treatment Plant and commitment for achieving treated effluent parameters.

5. PP to submit copy of HAZOP and Quantitative Risk Assessment Report.

6. PP to submit specific CSR activities including funds allocated for CSR, activities to be involved with time lines for its implementation in consultation with the District Authorities. PP to maintain separate accounts for CSR/EMP funds.

7. PP to copy of on site emergency plan.

8. PP to submit details of effluent treatment plant considering generation of domestic sewage. Plant should be a Zero Liquid Discharge as no CETP exists in the industrial area of Jejuri.

9. PP to include chemical handling protocol in the EIA report.

10. PP to submit structural stability certificate of existing buildings on the site.

11. PP to provide lighting arrestors.

12. PP to provide solar energy for the illumination of administrative building area and street lights.

Now PP submitted the EIA/EMP report.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal to the SEIAA for prior Environment Clearance subject to the following conditions..

Specific Conditions by SEAC:

1) PP to use briquettes as a fuel in the proposed plant. In case of non availability of briquette , PP may use coal having ash content less than 10%.
2) PP to prepare and implement CER plan in consultation with the District Authorities.

FINAL RECOMMENDATION

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

153rd (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd A (Day-2) **Meeting Date** July 26, 2018

Subject: Environment Clearance for RPG Life Sciences Ltd., Plot No- 25/25A, TTC MIDC, Pawne, Navi Mumbai 400703

Is a Violation Case: No

General Information: Venue: CSIR- National Chemical Laboratory (NCL)Guesthouse, Pashan Road, Pune- 411008,

1.Name of Project	Modernization with change in product mix for manufacturing of Active Pharmaceutical Ingredients (API)
2.Type of institution	Private
3.Name of Project Proponent	Mr. Vinod S. Narkhede (Assistant General Manager – EHS)
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	Modernization with change in product mix
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Plot No- 25/25A, TTC MIDC, Pawne, Navi Mumbai - 400703
9.Taluka	Navi-Mumbai
10.Village	Pawne Village
11.Area of the project	TTC MIDC, Pawne, Navi Mumbai
12.IOD/IOA/Concession/Plan Approval Number	NA
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area: 9352
13.Note on the initiated work (If applicable)	Nil
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	34483 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.):
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	811000000

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)	9 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	A) Diuretic	-	-	-
2	1.Spironolactone etc.	0.3333	Deleted	Deleted
3	B) Anti-Psychotic	0.35	-	-
4	1. Haloperidol etc.	-	Continue	Continue
5	2.Haloperidol Decanoate etc	-	Continue	Continue
6	3. Risperidone etc.	-	Continue	Continue
7	4. Olanzapine etc.	-	Deleted	Deleted
8	5. Aripiprazole etc.	-	Deleted	Deleted
9	6. Quetiapine Hemifumarate etc.	-	Deleted	Deleted
10	C) Anti-Arrhythmic class I	0.0125	-	-
11	1. Disopyramide Phosphate etc.	-	Continue	Continue
12	D) Anti-Emetic	0.0100	-	-
13	1. Dimenhydrinate etc.	-	Deleted	Deleted
14	E) Anti-Diarrhoeal	1.000	-	-
15	1. Diphenoxylate HCL etc.	-	Continue	Continue
16	F) Immunosuppressant	1.6667	-	-
17	1. Azathioprine etc.	-	Continue	Continue

18	2. Mycophenolate Mofetil etc.	-	Continue	Continue
19	3. Mycophenolate Sodium etc.	-	Continue	Continue
20	4. Fingolimod etc.	-	Deleted	Deleted
21	G) Collinergic Blockers	0.1000	-	-
22	1. Propantheline Bromide etc.	-	Continue	Continue
23	H) Anthelmentic	0.1667	-	-
24	1. Quinfamide etc.	-	Continue	Continue
25	I) Anti-Thrombotic/Anti-Platelet	1.1250	-	-
26	1. Clopidogrel Bisulphate etc.	-	Continue	Continue
27	2. Clopidogrel Besylate etc.	-	Continue	Continue
28	3. Ticlopidine HCL etc.	-	Continue	Continue
29	J) Anti-Convusant	0.1250	-	-
30	1. Lamotrigine etc	-	Continue	Continue
31	K) Anti-Depressant	0.0525	-	-
32	1. Sertraline HCL etc.	-	Continue	Continue
33	2. Escitalopram oxalate etc.	-	Deleted	Deleted
34	L) Anti-Anginal	0.5000	-	-
35	1. Nicorandil etc.	-	Continue	Continue
36	2. Ivabradin HCL etc.	-	Deleted	Deleted
37	M) Anti-Alzheimer	0.0167	-	-
38	1. Donepezil etc.	-	Deleted	Deleted
39	N) Anti-Hypertensive	0.1250	-	-
40	1. Tolvaptan etc	-	Continue	Continue
41	2. Benidipine.HCl etc.	-	Continue	Continue
42	3. Solifenacin etc.	-	Continue	Continue
43	4. Irbesartan etc.	-	Deleted	Deleted
44	5. Lercanidipine HCL etc.	-	Deleted	Deleted
45	6. Eplirenone etc	-	Deleted	Deleted
46	7. Candisartan celextil etc.	-	Deleted	Deleted
47	8. Conivaptan etc	-	Deleted	Deleted
48	O) Anti-Migrane	0.0167	-	-
49	1. Eletriptan Etc.	-	Deleted	Deleted
50	P) Anti-Gout	0.0167	-	-
51	1. Febuxostat Etc.	-	Deleted	Deleted
52	Q) Anti-Obesity	0.0467	-	-
53	1. Orlistate Etc.	-	Deleted	Deleted
54	R) Anti-Viral	0.0167	-	-

55	1. Tamiflu Etc.	-	Deleted	Deleted
56	S) Anti-Ulcerant	0.2000	-	-
57	1. Pantaprazole Sequehydrate etc.	-	Continue	Continue
58	2. Lafutidine etc.	-	Deleted	Deleted
59	3. Pantaprazole Sodium etc	-	Added	Added
60	T) Anti-Hyperparathyroid	-	-	-
61	1. Cinacalcet.HCl etc.	-	Added	Added
62	TOTAL	5.88 MT/M	70.56 MTA	70.56 MTA
63	RPGLS shall manufacture any 15 products at a time on campaign basis.	-	-	-
64	After proposed change in product mix total production capacity will remain same, i.e. 5.88 TPM, however the production capacity will get change from Ton per month to Ton per Annum which will become 70.56 TPA.	-	-	-

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	70	0	70	10	0	10	60	0	60
Industrial Process	160	0	160	52	0	52	108	0	108
Cooling tower & thermopack	60	0	60	48	0	48	12	0	12
Gardening	60	0	60	60	0	60	0	0	0
Fresh water requirement	350	0	350	170	0	170	180	0	180

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 :	1) 15 KL - 3 Nos. - Petroleum Class "A" - Bulk Petroleum Storage 2) 7 KL - 3 Nos. - Petroleum Class "A" - Bulk Petroleum Storage 3) 400 KL - 1 Nos. - MIDC Water & Fire Water - Fire water & Water Storage tank
35.Storm water drainage	**Natural water drainage pattern:**	Proper and separate storm water drains available, as per natural slope.
	Quantity of storm water:	NA
	Size of SWD:	NA
Sewage and Waste water	**Sewage generation in KLD:**	60
	STP technology:	Sewage treated in septic tank and overflow pumped to aeration tank of ETP for combined treatment
	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:**	1) Paper, Wood, Plastic and Metals - 18 MTA, 2) Discarded, Detoxicated containers / Barrels (M.S./HDPE Drums 200 Ltrs. Cap.) - 684 Nos./A, 3) Garbage like Paper, Corrugated Boxes, Plastics, Fibre drums, Brooms, Wipers, Floor cleaning mops, Tea cups, disposable approns, head caps & shoe covers etc. 36 MTA.
	Wet waste:	NA
	Hazardous waste:	644.960 MTA
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA

Mode of Disposal of waste:	**Dry waste:**	1) Sale to authorized party, 2) Reuse / Sale to authorized party, 3) Sale to authorized party respectively.
	Wet waste:	NA
	Hazardous waste:	1) CHWTSDF, MWML, Taloja, 2) Returned to battery manufacturer through authorized dealer on buy back procurement, 3) Sale to authorized E-Waste dismanlers / Recyclers.
	Biomedical waste (If applicable):	NA
	STP Sludge (Dry sludge):	NA
	Others if any:	NA
Area requirement:	**Location(s):**	Area of storage of raw materials/products & Area of storage of Hazardous & No-hazardous Waste
	Area for the storage of waste & other material:	1) storage of raw materials/products - 2560 Sq. m , 2) storage of Hazardous & No-hazardous Waste - 324 Sq. m.
	Area for machinery:	1) Area used for manufacturing - 3398 Sq. m, 2) Area used for utilities (Boilers, Thermopacks, chimneys, D G sets, Cooling towers, ETP and STP) - 1576 Sq.m.
Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	81.10 Crs.
	O & M cost:	1.622 Crs.

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	PH	-	8.0 - 10.0	7.5 - 8.0	5.5 to 9.0
2	COD	Mg/Lit.	7000 - 8000	100 -160	250
3	BOD (3 days at 27 OC)	Mg/Lit.	3000 - 4000	50 - 60	100
4	TSS	Mg/Lit.	1500 - 2000	60 - 70	100
5	TDS	Mg/Lit.	2000 - 3000	700 - 800	2100
6	Oil & Grease	Mg/Lit.	6 - 8	< 10	10

Amount of effluent generation (CMD):	Trade Effluent: 120 CMD; Domestic : 60 CMD
Capacity of the ETP:	200 CMD
Amount of treated effluent recycled :	Nil
Amount of water send to the CETP:	200 CMD
Membership of CETP (if require):	Yes
Note on ETP technology to be used	Conventional ETP having Primary, Secondary and Tertiary treatment and treated effluent sent to TBIA CETP.
Disposal of the ETP sludge	CHWTSDF, MWML, Taloja

38.Hazardous Waste Details

Serial Number	Description	Cat	UOM	Existing	Proposed	Total	Method of Disposal
1	Sludge & Filters contaminated with oil	3.3	MT/A	5.4	0	5.4	CHWTSDF, Taloja
2	Used / Spent Oil	5.1	MT/A	1.44	0	1.44	Sale to authorized recyclers / CHWTSDF, Taloja
3	Distillation Residue	20.3	MT/A	5.4	0	5.4	CHWTSDF, Taloja

4	Residue & Wastes*	28.1	MT/A	134.4	0	134.4	Sale to authorized recyclers / CHWTSDF, Taloja
5	Spent Catalyst	28.2	MT/A	8.0	0	8.0	CHWTSDF, Taloja
6	Spent Carbon	28.3	MT/A	22.0	0	22.0	CHWTSDF, Taloja
7	Off Specification products	28.4	MT/A	2.88	0	2.88	CHWTSDF, Taloja
8	Date expired products	28.5	MT/A	0.72	0	0.72	CHWTSDF, Taloja
9	Spent Solvents	28.6	MT/A	384.0	0	384.0	Reuse / Sale to MPCB authorized party / CHWTSDF, Taloja
10	Empty Barrels/Containers/Liners contaminated with Hazardous Chemicals/Wastes	33.1	MT/A	24.0	0	24.0	Reuse / Sale to MPCB authorized party / CHWTSDF, Taloja
11	Spent Ion Exchange resin containing toxic metals	35.2	MT/A	0.36	0	0.36	CHWTSDF, Taloja
12	Chemical sludge from waste water treatment	35.3	MT/A	50.0	0	50.0	CHWTSDF, Taloja
13	Oil & Grease skimming residue	35.4	MT/A	4.8	0	4.8	CHWTSDF, Taloja
14	Used Batteries	-	MT/A	0.360	0	0.360	Returned to battery manufacturer through authorized dealer on buy back procurement
15	E-Waste	-	MT/A	1.2	0	1.2	Sale to authorized E-Waste dismanlers / Recyclers.
16	Non Hazardous Wastes	-	-	-	-	-	-
17	Paper, Wood, Plastic and Metals	-	MT/A	18.0	0	18.0	Sale to authorized party
18	Discarded, Detoxicated containers / Barrels (M.S./HDPE Drums 200 Ltrs. Cap.)	-	Nos./A	684.0	0	684.0	Reuse/Sale to authorized party
19	Garbage like Paper, Corrugated Boxes, Plastics, Fibre drums, Brooms, Wipers, Floor cleaning mops, Tea cups, disposable approns, head caps & shoe covers etc.	-	MT/A	36	0	36	Sale to authorized party

39.Stacks emission Details

Serial Number	Section & units	Fuel Used with Quantity	Stack No.	Height from ground level (m)	Internal diameter (m)	Temp. of Exhaust Gases
1	Existing Boiler	PNG - 41.6 SCM/hr.	1	33.3	0.525	145 oC
2	As Optional Fuel for Existing Boiler	FO - 41.6 Kg/hr.	-	-	-	-
3	Existing D G set	HSD - 104 Kg/hr.	1	10 M from ground	0.2	40 oC

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	PNG	41.6 SCM/hr.	0	41.6 SCM/hr.
2	FO (As Optional Fuel)	41.6 Kg/hr.	0	41.6 Kg/hr.
3	HSD	104 Kg/hr.	0	104 Kg/hr.
41.Source of Fuel		1) PNG - Mahanagar Gas Limited, 2) FO & HSD - Local Market		
42.Mode of Transportation of fuel to site		1) PNG - Direct Pipeline, 2) By Road		

43.Green Belt Development	**Total RG area :**	12414 Sq.m
	No of trees to be cut :	Nil
	Number of trees to be planted :	Around 3585 nos.
	List of proposed native trees :	Wad, Pimpal, Kaduneem, Ashoka, Umber, Kadamba, Suru, Nilgiri, Gulmohor etc.
	Timeline for completion of plantation :	Trees and shrubs already planted at the site

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 :**	MSEDCL
	During Construction Phase: (Demand Load)	NA
	DG set as Power back-up during construction phase	NA
	During Operation phase (Connected load):	2975 KW
	During Operation phase (Demand load):	Electric Supply of MSEDCL is available through two different feeders where regular power supply from any of one is always available.
	Transformer:	1) 500 KVA. 2) 500 KVA, 3) 1000 KVA
	DG set as Power back-up during operation phase:	625 KVA
	Fuel used:	HSD
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Nil

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 height.	-
Water	Conventional ETP having Primary, secondary and Tertiary treatment, treated effluent is being sent to CETP	-
Noise	Separate room is provided for existing D.G of 625 KVA & PPE	-
Solid Waste	Hazardous waste is being dispose to CHWTSDF , Taloja & will be sold to MPCB authorized party.	-

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	84.5 Lacs
	O & M cost:	12.2 Lacs

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	Scrubber	1	0.1
2	WATER POLLUTION CONTROL	Effluent Treatment Plant 3	3	0.5
3	NOISE POLLUTION CONTROL	Anti-Vibration Pads 0.25	0.25	0
4	OCCUPATIONAL HEALTH	1) Medical Check-up 2) Health Insurance Policy 3) Medical Staff charges 4) In-House First Aid Room 5) Other infrastructure and Equipment	2	1.5
5	GREEN BELT	-	1	0.5
6	HAZARDOUS WASTE STORAGE & DISPOSAL	-	1.75	-
7	Total	-	9	2.6

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
(2-(2,3-Dichlorophenyl)-Guanidinoimino)	Solid	Ware house	0.5	0.4	0.1133	Local	By Road
(S)-methyl 2-(2-chlorophenyl)-2-(6,7-di	Solid	Ware house	0.25	0.25	0.0292	Local	By Road
10% palladium on charcoal	Solid	Ware house	0.01	0.005	0.0007	Local	By Road
2 - amino pyridine	Solid	Ware house	0.15	0.15	0.0458	Local	By Road
2-chloromethyl-3,4-dimethoxy pyri hydro	Solid	Ware house	0.5	0.5	0.4898	Local	By Road
2-furoic acid	Solid	Ware house	0.5	0.45	0.1292	Local	By Road
4 bromo 2-2 diphenyl butyro nitrite	Solid	Ware house	0.5	0.34	0.2395	Local	By Road
4-(2-4-Difluoro benzoyl oxime)-piprodine	Solid	Ware house	0.2	0.16	0.0800	Local	By Road
4-chloro phenyl 4hydroxy piperidine(CPP)	Solid	Ware house	0.5	0.36	0.2129	Local	By Road
5-difluromethoxy-2-mercapto-1h-benimidaz	Solid	Ware house	0.5	0.49	0.4803	Local	By Road
5Chloro1methyl1H-imidazole Nitrate	Solid	Ware house	0.2	0.14	0.0834	Local	By Road
70 % sulphuric acid CP	Liquid	Tank Farm	0.2	0.2	0.0167	Local	By Road
Acetic acid glacial	Liquid	Tank Farm	0.25	0.235	0.0979	Local	By Road
Acetone	Liquid	Tank Farm	22	9.98	9.2308	Local	By Road
15 Acetonitrile	Liquid	Tank Farm	0.8	0.64	0.3333	Local	By Road
Activated carbon	Solid	Ware house	0.4	0.36	0.3308	Local	By Road
Alpha acetyl gamma butyrolactone	Liquid	Tank Farm	0.5	0.48	0.0800	Imported	By Ship
Amino amide pure	Solid	Ware house	0.01	0.01	0.0008	Local	By Road
Ammonium sulphate	Solid	Ware house	1.5	1.5	1.1625	Local	By Road
Caustic potash flakes	Solid	Ware house	0.5	0.4	0.1833	Local	By Road
Caustic soda flakes	Solid	Ware house	1.5	1.2	0.5167	Local	By Road
Caustic soda lye	Liquid	Tank Farm	10	8.126	7.3543	Local	By Road
Caustic soda pallets	Solid	Ware house	0.1	0.1	0.0250	Local	By Road
Chloro fluoro butyrophenone(CFB)	Liquid	Tank Farm	0.5	0.36	0.1500	Local	By Road
Chloroform	Liquid	Tank Farm	2	2	0.9567	Local	By Road
Commercial Hydrogen cylinder	Gas	Shed	0.01	0.01	0.0041	Local	By Road

Commercial Nitrogen cylinder	Gas	Shed	0.015	0.012	0.0612	Local	By Road
Decanoic acid (N-capric acid)	Liquid	Tank Farm	0.2	0.18	0.0300	Local	By Road
Denatured absolute alcohol (5% acetone)	Liquid	Tank Farm	10	10	2.5833	Local	By Road
Di-isopropyl amino ethyl chloride HCL	Solid	Ware house	0.15	0.135	0.0336	Local	By Road
Dichloro acetyl chloride	Liquid	Tank Farm	1	1	0.2083	Imported	By Ship
Diethanolamine	Liquid	Tank Farm	0.8	0.63	0.1575	Local	By Road
Diethyl oxalate	Liquid	Tank Farm	2	1.75	0.8542	Local	By Road
Dimethyl formamide	Liquid	Tank Farm	2.09	2.09	1.0392	Local	By Road
Ethyl acetate	Liquid	Tank Farm	5	4.2	3.9725	Local	By Road
Fuming nitric acid	Liquid	Tank Farm	1	0.645	0.2625	Local	By Road
Glycerine	Liquid	Tank Farm	2.5	2.5	1.0000	Local	By Road
Hexane	Liquid	Tank Farm	10	2.4	1.8000	Local	By Road
Hydrobromic acid (aqueous 48%)	Liquid	Tank Farm	5	4.8	2.1250	Local	By Road
Hydrochloric acid	Liquid	Tank Farm	2.5	2.07	4.4883	Local	By Road
Hyflo supercel (Celite)	Solid	Ware house	0.25	0.25	0.0868	Local	By Road
Hypoxanthine	Solid	Ware house	0.5	0.5	0.5000	Imported	By Ship
IS, CIS-Sertraline Mandelate	Solid	Ware house	0.4	0.4	0.1667	Local	By Road
Iso propyl alcohol	Liquid	Tank Farm	5	1.28	0.4000	Local	By Road
Isopropyl alcohol HCl solution (20%)	Liquid	Tank Farm	0.3	0.3	0.8500	Local	By Road
Isopropyl ether	Liquid	Tank Farm	5	3.8	1.6250	Local	By Road
Liquor ammonia	Liquid	Tank Farm	1	0.8	0.9667	Local	By Road
MCA Solution	Liquid	Tank Farm	0.025	0.025	0.0167	Local	By Road
Methanol	Liquid	Tank Farm	22	10.48	14.0993	Local	By Road
Methyl bromide pure	Gas	Shed	0.06	0.06	0.0350	Local	By Road
Methyl ethyl ketone	Liquid	Tank Farm	1.5	1.155	0.4533	Local	By Road
Methylene chloride	Liquid	Tank Farm	20	16.32	12.8025	Local	By Road
Mincare solution	Liquid	Tank Farm	0.02	0.02	0.0050	Local	By Road
Mono methylamine	Liquid	Tank Farm	2	1.87	1.0683	Local	By Road
Nicotinic acid	Solid	Ware house	0.2	0.2	0.0375	Local	By Road
Nitric acid LR grade	Liquid	Tank Farm	0.6	0.6	0.3292	Local	By Road
P-chloro nitro benzene	Solid	Ware house	0.5	0.45	0.1875	Local	By Road
Para anisidine	Solid	Ware house	1	0.725	0.2417	Local	By Road
Para toluene sulphonyl chloride	Solid	Ware house	1.5	1.35	0.3375	Local	By Road
Phenyl acetonitrile (Benzyl Cyanide)	Liquid	Tank Farm	1	0.84	0.1225	Local	By Road
Phosphorous oxychloride	Liquid	Tank Farm	0.2	0.2	0.0875	Local	By Road
Phosphorous pentachloride	Liquid	Tank Farm	3.5	3.36	2.3900	Local	By Road
Pyridine	Liquid	Tank Farm	3.5	3.15	2.0563	Local	By Road
Raney nickel	Solid	Ware House	0.1	0.09	0.0300	Local	By Road
Rec isopropyl ether	Liquid	Tank Farm	5	4.8	5.8242	Local	By Road
Recovered MDC	Liquid	Tank Farm	10	9	4.6619	Local	By Road
Recovered Toluene	Liquid	Tank Farm	10	4.5	2.5348	Local	By Road
Reprocess - 10% palladium on charcoal	Solid	Ware House	0.01	0.008	0.0014	Local	By Road
Sodium bi carbonate	Solid	Ware House	1.5	1.5	0.6667	Local	By Road
Sodium Borohydride	Solid	Ware House	2	2	0.1667	Local	By Road
Sodium Carbonate	Solid	Ware House	1.3	1.3	2.1750	Local	By Road
Sodium chloride	Solid	Ware House	1.1	1.1	0.3292	Local	By Road
Sodium hypochlorite	Liquid	Tank Farm	3	2.4	2.5850	Local	By Road
Sodium meta bi sulphite	Solid	Ware House	0.05	0.05	0.0125	Local	By Road
Sodium Sulphate	Solid	Ware House	1	1	0.6250	Local	By Road
Sodium thiosulphate	Solid	Ware House	0.2	0.2	0.0667	Local	By Road
Sulphuric acid CP	Liquid	Tank Farm	1.5	1.5	0.7458	Local	By Road
Sulphuric acid L.R.	Liquid	Tank Farm	1.7	1.7	1.9875	Local	By Road
Tetra butyl ammonium bromide	Solid	Ware House	0.2	0.2	0.0296	Local	By Road
Thionyl chloride	Liquid	Tank Farm	1.8	1.8	0.4750	Local	By Road
Toluene	Liquid	Tank Farm	22	4.87	6.8415	Local	By Road

Triethylamine	Liquid	Tank Farm	0.5	0.45	0.1500	Local	By Road
Trimethyl ortho formate	Liquid	Tank Farm	0.8	0.8	0.3333	Local	By Road
Ultra High Purity (UHP)Nitrogen Cylinder	Gas	Shed	0.005	0.005	0.0021	Local	By Road
Xanthalene-9-carboxylic (xanthanoic)acid	Solid	Ware House	0.15	0.15	0.0338	Imported	By Ship

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:	4325 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):	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) B
	Court cases pending if any	NA
	Other Relevant Informations	1) RPGLS shall manufacture any 15 products at a time on campaign basis.2) After proposed change in product mix total production capacity will remain same, i.e. 5.88 TPM, however the production capacity will get change from Ton per month to Ton per Annum which will become 70.56 TPA.
	Have you previously submitted Application online on MOEF Website.	Yes

	Date of online submission	07-06-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
1. Name of Project	Modernization with change in product mix for manufacturing of Active Pharmaceutical Ingredients (API)	Proposed change in product mix for manufacturing of Active Pharmaceutical Ingredients (API) By RPG Life Sciences Ltd.
5. Type of project	NA	Industrial Project for manufacturing of Active Pharmaceutical Ingredients (API)
6. New project/expansion in existing project / modernization /diversification in existing project	Modernization with change in product mix	Change in product mix
12.IOD/IOA/Concession /Plan Approval Number	Approved Built-up Area: 9352	Approved Built-up Area: 12292
21.Estimated cost of the project (Rupees)	811000000	833900000
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	Not applicable	9m
31.Production Details	Sr.No. 2 - B) Anti-Psychotic – Existing 0.35 TPM (1. Haloperidol- Continue, 2. Haloperidol Decanoate- Continue, 3. Olanzapine – Deleted 4. Risperidone- Continue, 5. Aripiprazol- Deleted, 6. Quetiapine Hemifumarate etc.- Deleted)	Sr.No. 2 - B) Anti-Psychotic – Existing 4.200 TPA, Proposed – (+) 5.1 TPA, Total – 9.3 TPA (1. Haloperidol- Increased, 2. Haloperidol Decanoate- Increased, 3. Olanzapine – Deleted 4. Risperidone- Increased, 5. Aripiprazol- Deleted 6. Quetiapine Hemifumarate etc.- Deleted)
31.Production Details	Sr.No. 10 - C) Anti-Arrhythmic class I – Existing - 0.0125 TPM (Disopyramide Phosphate etc.- Continue)	Sr.No. 10 - C) Anti Arrhythmic class I – Existing – 0.150 TPA, Proposed – (+)0.15, Total – 0.300 TPA (Disopyramide Phosphate etc.- Increased)
31.Production Details	Sr.No. 14 - E) Anti-Diarrheal- Existing – 1 TPM, (Diphenoxylate HCL etc. – Continue)	Sr.No. 14 - E) Anti-Diarrheal- Existing – 12 TPA, Proposed – (-) 4.8, Total – 7.2 TPA (Diphenoxylate HCL etc. – Decreased)
31.Production Details	Sr.No. 16 - F) Immunosuppressant – Existing 1.667 TPM (1. Azathioprine – Continue, 2.Fingolimod- Deleted, 3. Mycophenolate Mofetil – Continue, 4. Mycophenolate Sodium etc.- Continue)	Sr.No. 16 - F) Immunosuppressant – Existing - 20 TPA, Proposed – (-) 3.2 TPA, Total – 16.800 TPA (1. Azathioprine – Continue, 2.Fingolimod- Deleted, 3. Mycophenolate Mofetil – Decreased, 4. Mycophenolate Sodium etc.- Decreased)
31.Production Details	Sr.No. 21 - G) Collinergic Blockers – Existing – 0.100TPM (Propantheline Bromide etc.- Continue)	Sr.No. 21 - G) Collinergic Blockers – Existing – 1.2 TPA, Proposed – (+) 0.3 TPA, Total – 1.8 TPA (Propantheline Bromide etc.- Increased)
31.Production Details	Sr.No. 23 – H) Anthelmentic – Existing – 0.1667 TPM (Quinfamide etc.- Continue)	Sr.No. 23 – Anthelmentic – Existing – 2.0 TPA, Proposed – (+)6.4, Total – 8.4 TPA (Quinfamide etc.- Increased)
31.Production Details	Sr.No. 25 – I) Anti Thrombotic / Anti Platelet – Existing - 1.1250 TPM (1. Clopidogrel Bisulphate – Continue, 2. Clopidogrel Besylate- Continue, 3. Ticlopidine HCL etc. – Continue)	Sr.No. 25 – I) Anti Thrombotic / Anti Platelet – Existing – 13.500 TPA, Proposed – (-) 11.7 TPA, Total – 1.8 TPA (1. Clopidogrel Bisulphate – Deleted, 2. Clopidogrel Besylate- Deleted, 3. Ticlopidine HCL etc. – Decreased)

31.Production Details	Sr.No. 29 – J) Anti Convusant – Existing - 0.1250 TPM (Lamotrigine etc. – Continue)	Sr.No. 29 – J) Anti Convusant – Existing – 1.5 TPA, Proposed – (+) 5.7, Total – 7.2 TPA (Lamotrigine etc. – Increased)
31.Production Details	Sr.No. 31 – K) Anti-Depressant – Existing - 0.0525 TPM (1. Sertraline HCL – Continue, 2. Escitalopram oxalate etc.- Deleted)	Sr.No. 31 – K) Anti-Depressant – Existing - 0.630 TPA, Proposed – (+) 5.37 TPA, Total – 6 TPA (1. Sertraline HCL – Increased, 2. Escitalopram oxalate etc.- Deleted)
31.Production Details	Sr.No. 34 – L) Anti Anginal – Existing - 0.500 TPM (1. Nicorandil – Continue, 2. Ivabradin HCl etc.- Deleted)	Sr.No. 34 – L) Anti Anginal – Existing - 6 TPA, Proposed – (-) 4.2 TPA, Total – 1.8 TPA (1. Nicorandil – Decreased, 2. Ivabradin HCl etc.- Deleted)
31.Production Details	Sr.No. 39 – N) Anti-Hypertensive – Existing – 0.1250 TPM (1. Irbesartan- Deleted 2. Lercanadipine HCL- Deleted 3. Eplirenone- Deleted, 4.Candisartan celextil – Deleted, 5. Tolvaptan – Continue, 6. Benidipine.HCl – Continue, 7. Solifenacin – Continue, 8. Conivaptan – Deleted)	Sr.No. 39 – N) Anti-Hypertensive – Existing – 1.5 TPA, Proposed – (-) 1.14 TPA, Total – 0.360 TPA (1. Irbesartan- Deleted, 2. Lercanadipine HCL- Deleted, 3. Eplirenone- Deleted, 4.Candisartan celextil – Deleted, 5. Tolvaptan – Decreased, 6. Benidipine.HCl – Decreased, 7. Solifenacin – Decreased, 8. Conivaptan – Deleted)
31.Production Details	Sr.No. 56 – S) Anti Ulcerant – Existing – 0.2 TPM (1. Pantaprazole Sodium – Continue, 2.Pantaprazole Sequehydrate – Continue, 3. Lafutidine etc. – Deleted)	Sr.No. 56 – S) Anti Ulcerant – Existing – 2.4 TPA, Proposed – (+) 7.2 TPA, Total – 9.6 TPA (1. Pantaprazole Sodium – Added, 2.Pantaprazole Sequehydrate – Increased, 3. Lafutidine etc. – Deleted)
31. Production Details	Sr.No. 60 – T) Antihyperparathyroid – Existing – 0.0	Sr.No. 60 – T) Antihyperparathyroid – Existing – 0, Proposed – (+) 0.30 TPA, Total – 0.30 TPA (Cinacalcet.HCl – Added)
31. Production Details	By-Product Details – Nil	By- Product Details – Mix Solvent – Existing 0, Proposed – 671 TPA, Total – 671 TPA
33. Details of Total water consumed	Industrial Process – Consumption – 160 CMD, Loss – 52 CMD, Total 108 CMD	Industrial Process – Consumption – 144 CMD, Loss – 48.5 CMD, Total 95.5 CMD
33. Details of Total water consumed	Cooling tower & Boiler – Consumption – 60 CMD, Loss – 48 CMD, Total – 12 CMD	Cooling tower & Boiler – Consumption – 76 CMD, Loss – 51.5 CMD, Total – 24.5 CMD
34.Rain Water Harvesting (RWH)	NA	Level of the Ground water table: 5 – 12 m
34.Rain Water Harvesting (RWH)	NA	Size and no of RWH tank(s) and Quantity: 125 m3 & 105 m3/d
34.Rain Water Harvesting (RWH)	NA	Budgetary allocation (Capital cost) : 6,30,000/-
34.Rain Water Harvesting (RWH)	NA	Budgetary allocation (O & M cost) : 12,600/A
35.Storm water drainage	NA	Quantity of storm water: 0.245 m3/s
35.Storm water drainage	NA	Size of SWD: 305 Lit/Sec
37.Solid waste Management	Waste generation in the operation Phase: Hazardous waste: 644.960 MTA	Waste generation in the operation Phase: Hazardous waste: 608.86 MTA
39.Hazardous Waste Details	Sr. No. 1: Sludge & Filters contaminated with oil – Existing – 5.4 MT/A , Proposed - 0, Total - 5.4 MT/A, Method Of Disposal – CHWTSDF, Taloja	Sr. No. 1 Sludge & Filters contaminated with oil – Existing – 5.4 MT/A , Proposed - (-) 2.4 MT/A, Total – 3 MT/A, Method Of Disposal – CHWTSDF
39.Hazardous Waste Details	Sr.No. 3: Distillation Residue - Existing – 5.4 MT/A, Proposed - 0 , Total – 5.4 MT/A, Method Of Disposal – CHWTSDF, Taloja	Sr.No. 3: Distillation Residue - Existing – 7 MT/A, Proposed – (-) 1.6 MT/A , Total – 5.4 MT/A, Method Of Disposal – CHWTSDF
39.Hazardous Waste Details	Sr. No. 4: Residue & Wastes - Existing – 134.4 MT/A, Proposed - 0 , Total - 134.4 MT/A,	Sr. No. 4: Residue & Wastes - Existing – 328 MT/A, Proposed – (-) 5 MT/A , Total - 323 MT/A,

39.Hazardous Waste Details	Sr.No 5: Spent Catalyst - Existing - 8 MT/A, Proposed – 0 , Total - 8 MT/A and Method Of Disposal – CHWTSDF, Taloja	Sr.No 5: Spent Catalyst - Existing - 1.5 MT/A, Proposed – 0 , Total - 1.5 MT/A, Method Of Disposal – Regenerated by authorized party
39.Hazardous Waste Details	Sr.No 6: Spent Carbon - Existing – 22 MT/A , Proposed – 0 , Total – 22 MT/A. Method Of Disposal – CHWTSDF, Taloja	Sr.No 6: Spent Carbon - Existing – 38 MT/A , Proposed – (-) 8 , Total – 30 MT/A, Method Of Disposal - CHWTSDF
39.Hazardous Waste Details	Sr.No 7: Off Specification Products - Existing – 2.88 MT/A , Proposed - 0 , Total - 2.88 MT/A, Method Of Disposal – CHWTSDF, Taloja	Sr.No 7: Off Specification Products - Existing – 2.88 MT/A , Proposed - (-) 2.16 MT/A , Total – 0.72 MT/A, Method Of Disposal – CHWTSDF
39.Hazardous Waste Details	Sr.No 8: Date expired products - Existing – 0.72 MT/A, Proposed – 0 , Total - 0.72 MT/A, Method Of Disposal – CHWTSDF, Taloja	Sr.No 8: Date expired products - Existing – 0.72 MT/A, Proposed – (+) 2.16 MT/A , Total – 2.88 MT/A, Method Of Disposal – CHWTSDF
39.Hazardous Waste Details	Sr.No 9: Spent Solvent - Existing – 384 MT/A, Proposed - 0 , Total - 384 MT/A, Method Of Disposal – Reused/ Sale to MPCB authorized party/ CHWTSDF, Taloja	Sr.No 9: Spent Solvent - Existing – 315 MT/A, Proposed – (-) 128.44 MT/A, Total – 186.56 MT/A, Method Of Disposal – Sale to authorized party.
39.Hazardous Waste Details	Sr.No 10: Empty Barrels / Containers / Liners contaminated with Hazardous Chemicals / Wastes - Existing – 24 MT/A , Proposed - 0 , Total - 24 MT/A, Method Of Disposal – Reused/ Sale to MPCB authorized party/ CHWTSDF, Taloja	Sr.No 10: Empty Barrels / Containers / Liners contaminated with Hazardous Chemicals / Wastes - Existing – 24 MT/A , Proposed – (-) 12, Total - 12 MT/A, Method Of Disposal – Reused/ Sale to MPCB authorized party/ CHWTSDF.
39.Hazardous Waste Details	Sr.No 12 : Chemical sludge from waste water treatment - Existing – 50 MT/A , Proposed - 0 , Total - 50 MT/A, Method Of Disposal – CHWTSDF, Taloja	Sr.No 12 : Chemical sludge from waste water treatment - Existing – 50 MT/A , Proposed – (-) 10MT/A , Total - 40 MT/A, Method Of Disposal – CHWTSDF
39.Hazardous Waste Details	Sr.No 13 : Oil & Grease skimming residues - Existing – 4.8 MT/A , Proposed - 0 , Total – 4.8 MT/A, Method Of Disposal – CHWTSDF, Taloja	Sr.No 13 : Oil & Grease skimming residues - Existing – 4.8 MT/A , Proposed – (-) 2.8 MT/A , Total – 2 MT/A, Method Of Disposal – CHWTSDF
39.Hazardous Waste Details	Sr.No 14 : E-Wastes – Existing – 1.2 MT/A, Proposed – 0, Total- 1.2 MT/A,	Sr.No 14 : E-Wastes – Existing – 0, Proposed – 2.5 MT/A, Total- 2.5 MT/A,
40.Stacks emission Details	Sr.No. 2: Section & units - As Optional Fuel for Existing Boiler - FO - 41.6 Kg/hr.	Sr.No. 2: Section & units - As Optional Fuel for Existing Boiler - FO – 105 Kg/hr.
41.Details of Fuel to be used	Sr.No. 2: Type of Fuel - FO (As Optional Fuel) - 41.6 Kg/hr.	Sr.No. 2: Type of Fuel - FO (As Optional Fuel) – 105 Kg/hr.
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	1. AIR POLLUTION CONTROL- Description – Scrubber, Capital cost Rs. In Lacs – 1, Operational and Maintenance cost (Rs. in Lacs/yr) –0.1,	1. AIR POLLUTION CONTROL- Description – Scrubber & Boiler, Existing Capital cost Rs. In Lacs – 100, Proposed Capital Cost Rs. In Lacs - 1, Operational and Maintenance cost (Rs. in Lacs/yr) –15
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	2.WATER POLLUTION CONTROL - Capital cost Rs. In Lacs – 3, Operational and Maintenance cost (Rs. in Lacs/yr) – 0.5	2.WATER POLLUTION CONTROL – Existing Capital cost Rs. In Lacs – 600, Proposed Capital Cost Rs. In Lacs - 4, Operational and Maintenance cost (Rs. in Lacs/yr) – 100
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	3.NOISE POLLUTION CONTROL - Capital cost Rs. In Lacs – 0.25, Operational and Maintenance cost (Rs. in Lacs/yr) – 0	3.NOISE POLLUTION CONTROL – Existing Capital cost Rs. In Lacs – 25, Proposed Capital Cost Rs. In Lacs - 0, Operational and Maintenance cost (Rs. in Lacs/yr) – 10
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	4.OCCUPATIONAL HEALTH - Capital cost Rs. In Lacs – 2, Operational and Maintenance cost (Rs. in Lacs/yr) – 1.5	4.OCCUPATIONAL HEALTH - Capital cost Rs. In Lacs – 100, Proposed Capital Cost Rs. In Lacs - 0, Operational and Maintenance cost (Rs. in Lacs/yr) – 10

52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	5. GREEN BELT - Capital cost Rs. In Lacs – 1, Operational and Maintenance cost (Rs. in Lacs/yr) – 0.5	5. GREEN BELT – Existing Capital cost Rs. In Lacs – 10, Proposed Capital Cost Rs. In Lacs - 1, Operational and Maintenance cost (Rs. in Lacs/yr) – 0.5
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	6. HAZARDOUS WASTE STORAGE & DISPOSAL - Capital cost Rs. In Lacs – 1.75 , Operational and Maintenance cost (Rs. in Lacs/yr) – 0	6. HAZARDOUS WASTE STORAGE & DISPOSAL – Existing Capital cost Rs. In Lacs -65, Proposed Capital Cost Rs. In Lacs - 3, Operational and Maintenance cost (Rs. in Lacs/yr) – 8
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	Nil	Environmental Monitoring – Existing Capital cost Rs. In Lacs -0, Proposed Capital Cost Rs. In Lacs - 0, Operational and Maintenance cost (Rs. in Lacs/yr) – 2.75
52.Environmental Management plan Budgetary Allocation- b) Operation Phase (with Break-up):	Total: Capital cost Rs. In Lacs – 9 , Operational and Maintenance cost (Rs. in Lacs/yr) – 2.6	Total: Capital cost Rs. In Lacs – 909 , Operational and Maintenance cost (Rs. in Lacs/yr) – 146.25

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. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on 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 to have primary, secondary and tertiary effluent treatment plant. The treated effleunt will be discharged to CETP.
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. PP to obtain permission from CGWA of they uses ground water as per Public Notice issued by Ministry of Water Resources on 29.06.2018.
Solid Waste Management	PP proposes to sale waste to authorised vendors and disposal at CHWTSDF.
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 connected load for proposed project is 2975 KW, which will be supplied by MSEDCL. PP also proposes to have 625 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP proposes to provide 4325 Sq.m. parking area along with 9 meter wide internal roads.
Landscape Plan	PP proposes 33% green belt.
Disaster management system and risk assessment	PP carried out HAZOP and prepared disaster management plan to handle an emergency.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes EMP cost of Rs. 9.0 Lakhs as capital and Rs. 2.6 lakhs as O & M costs for 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 for expansion of existing unit. 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 informed that the proposal in only for modernization by additing two products and there will be no expansion.

PP obtained ToR in the 139th meetin gof SEAC-1 held on 30.06.2017 along with following additional points.

1. PP to submit copies of all the consent obtained from the existence of the unit. PP to submit self certificate for not changing any product mix, quantity, pollution load from the existence of the unit and not violated any requirement of EIA Notification, 2006 and amendments thereof.

2. PP to submit detailed material balance along with quantities of raw materials, waste generation etc.

3. PP to submit list of spent catalyst to be generated on site, its quantity per batch , per year, and its treatment and disposal plan.

4. PP to include toxic and hazardous chemical handling protocol in the EIA report.

5. PP to include product wise, stage wise waste generation along with its name and quantity in the EIA report; PP also to add note on the methodology ado[ted to reduce the generation of hazardous waste and submit a report along with EIA report.

6. PP to provide 33% green belt as per National Forest Policy.

7. PP to submit copies of HAZOP study, QRA and On Site/Off Site Emergency Plan.

Now PP submitted EIA/EMP report.

DECISION OF SEAC

After detailed eliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal to SEIAA for prior Environment Clearance subject to the following conditions..

Specific Conditions by SEAC:

1) PP to submit plan to rationalize the inventory of Sodium Borohydrate.

FINAL RECOMMENDATION

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

153rd (A) Meeting of State Level Expert Appraisal Committee (SEAC-1)

SEAC Meeting number: 153rd A (Day-2) **Meeting Date** July 26, 2018

Subject: Environment Clearance for Proposed Clinker Grinding Unit of 5.5 Million TPA Cement Production Capacity (Phase - I: 3.0 Million TPA & Phase - II: 2.5 Million TPA) and D.G. Sets of 1250 KVA (1000 KVA / 2 x 500 KVA & 250 KVA) near Villages: Patas & Kangaon, Taluka: Daund, District: Pune (Maharashtra) by M/s. Maharashtra Cement Plant (A unit of Shree Cement Ltd.)

Is a Violation Case: No

1.Name of Project	Proposed Clinker Grinding Unit of 5.5 Million TPA Cement Production Capacity (Phase - I: 3.0 Million TPA & Phase - II: 2.5 Million TPA) and D.G. Sets of 1250 KVA (1000 KVA / 2 x 500 KVA & 250 KVA) near Villages: Patas & Kangaon, Taluka: Daund, District: Pune (Maharashtra)
2.Type of institution	TOR
3.Name of Project Proponent	M/s. Maharashtra Cement Plant (A unit of Shree Cement Ltd.)
4.Name of Consultant	JM EnviroNet Pvt. Ltd.
5.Type of project	Other
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	NA
8.Location of the project	Khasra No. – 676, 681, 679, 680, 683, 675/1, 675/2, 682, 677, 678, 733/B/1, 733/B/2, 733/B/3, 733/B/4, 733/B/5, 733/B/6, 733/B/7, 733/B/8, 733/B/9, 733/A, 733/B/10/A, 733/B/10/B, 741, 731/5
9.Taluka	Daund
10.Village	Patas & Kangaon
Correspondence Name:	Mr. Rakesh Bhargava, Vice President (Environment)
Room Number:	NA
Floor:	NA
Building Name:	NA
Road/Street Name:	Post Box No. 33, Bangur Nagar, Andheri Deori
Locality:	Beawar
City:	Beawar, District Ajmer (Rajasthan)
11.Area of the project	Daund Municipal Corporation - Near Dr. Ambedkar Chowk, Daund – 413801, District- Pune, Phone No. +(91)-2117-262444, 262324.
12.IOD/IOA/Concession/Plan Approval Number	No
	IOD/IOA/Concession/Plan Approval Number: NA
	Approved Built-up Area:
13.Note on the initiated work (If applicable)	NA
14.LOI / NOC / IOD from MHADA/ Other approvals (If applicable)	NA
15.Total Plot Area (sq. m.)	65.69 Acres (26.58 ha)
16.Deductions	Nil
17.Net Plot area	65.69 Acres (26.58 ha)
18 (a).Proposed Built-up Area (FSI & Non-FSI)	**a) FSI area (sq. m.):** NA
	b) Non FSI area (sq. m.): NA
	c) Total BUA area (sq. m.):
18 (b).Approved Built up area as per DCR	**Approved FSI area (sq. m.):**
	Approved Non FSI area (sq. m.):
	Date of Approval:
19.Total ground coverage (m2)	NA
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	NA

21.Estimated cost of the project	6237000000

22.Number of buildings & its configuration

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

23.Number of tenants and shops	NA
24.Number of expected residents / users	NA
25.Tenant density per hectare	NA
26.Height of the building(s)	
27.Right of way (Width of the road from the nearest fire station to the proposed building(s)	NA
28.Turning radius for easy access of fire tender movement from all around the building excluding the width for the plantation	NA
29.Existing structure (s) if any	NA
30.Details of the demolition with disposal (If applicable)	NA

31.Production Details

Serial Number	Product	Existing (MT/M)	Proposed (MT/M)	Total (MT/M)
1	Cement	Nil	458333.3	458333.3

32.Total Water Requirement

Dry season:	**Source of water**	Ground Water
	Fresh water (CMD):	350
	Recycled water - Flushing (CMD):	20
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	350
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
Wet season:	**Source of water**	Ground Water
	Fresh water (CMD):	350
	Recycled water - Flushing (CMD):	20
	Recycled water - Gardening (CMD):	20
	Swimming pool make up (Cum):	0
	Total Water Requirement (CMD) :	350
	Fire fighting - Underground water tank(CMD):	0
	Fire fighting - Overhead water tank(CMD):	0
	Excess treated water	0
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**
Cooling tower & thermopack	0	310	310	0	0	0	0	0	0
Domestic	0	40	40	0	0	0	0	0	0

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	2 - 5 m
	Size and no of RWH tank(s) and Quantity:	Not applicable as it's a water logged area hence recharge structures will be not feasible
	Location of the RWH tank(s):	Within Plant area
	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 :	10000 KL pond
35.Storm water drainage	**Natural water drainage pattern:**	Rain water will be channelized through the proposed drainage inside the plant to the proposed pond. There is no Nallah passing through the land.
	Quantity of storm water:	55861.5 Cum
	Size of SWD:	10000 KL pond
Sewage and Waste water	**Sewage generation in KLD:**	25
	STP technology:	FAB Technology
	Capacity of STP (CMD):	1 STP, Capacity - 25 KLD
	Location & area of the STP:	Within the Plant area, Area - 10 m2
	Budgetary allocation (Capital cost):	Rs. 30 lacs
	Budgetary allocation (O & M cost):	Rs. 5 lacs

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Spoil generated during construction.
	Disposal of the construction waste debris:	Construction waste like soil, brick bits, etc. will be utilized in leveling of land and road making.
Waste generation in the operation Phase:	**Dry waste:**	Municipal solid waste will be generated from plant canteen and guest house.
	Wet waste:	No wet waste will be generated.
	Hazardous waste:	A small quantity (20 KL/Annum) of Used oil and grease will be generated from plant machinery / gear box and D.G set as hazardous waste.
	Biomedical waste (If applicable):	500 gm per day biomedical waste will be generated.
	STP Sludge (Dry sludge):	Sludge will be generated from STP.
	Others if any:	No

Mode of Disposal of waste:	**Dry waste:**	Municipal solid waste generated from plant canteen and guest house will be collected, segregated and disposed off scientifically.
	Wet waste:	No wet waste will be generated.
	Hazardous waste:	Used oil and grease will be sold out to the CPCB authorized recycler.
	Biomedical waste (If applicable):	Sold to authorized Biomedical waste facilitator.
	STP Sludge (Dry sludge):	Sludge generated from STP will be used as manure in greenbelt development / plantation.
	Others if any:	No
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	Used Oil & Grease	5.1	KL/Annum	0	20	20	Sold to the CPCB 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	Cement Mill-1	Nil	1	50	4	120 deg C
2	Cement Mill-2	Nil	1	39	1.6	100 deg C

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Coal	Nil	0.027 MTPA	0.027 MTPA
2	Petcoke	Nil	0.02 MTPA	0.02 MTPA
41.Source of Fuel		Local Market/ Indian and imported & other sources		

42.Mode of Transportation of fuel to site	Road & Rail

43.Green Belt Development	**Total RG area :**	21.7 Acres
	No of trees to be cut :	Nil
	Number of trees to be planted :	1200 trees per ha
	List of proposed native trees :	Local native species
	Timeline for completion of plantation :	In first five years after completion of commissioning work.

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 :**	Maharashtra State Electricity Distribution Co. Ltd. (Grid) and D.G. Sets (for back-up).
	During Construction Phase: (Demand Load)	1000 kw
	DG set as Power back-up during construction phase	500 KVA
	During Operation phase (Connected load):	20 MW
	During Operation phase (Demand load):	20 MW
	Transformer:	No
	DG set as Power back-up during operation phase:	1250 KVA (1000 KVA / 2 x 500 KVA & 250 KVA)
	Fuel used:	HSD- 40 KL
	Details of high tension line passing through the plot if any:	No

48.Energy saving by non-conventional method:

Solar Energy

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Solar Lights	50

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Process	Nil	All major stacks (Cement Mill, Coal / Petcoke Mill) will be provided with bag house and Bag filters will be provided at all material transfer points to maintain the emission level within limits.
Domestic Waste water	Nil	Domestic waste water generated from the office toilets will be initially disposed off in soak pit and septic tanks until the competition of the project work; thereafter, STP will be installed and treated water will be used for greenbelt development / plantation.

Budgetary allocation (Capital cost and O&M cost):	**Capital cost:**	50
	O & M cost:	5

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	Fugitive emissions	100

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	Bag House, Bag Filters, Water Sprinklers & Cemented Roads etc.	2000	40
2	Water	Sewage Treatment Plant and Rain Water Harvesting System	100	10
3	Environmental Management Department	Day-to-day work	100	25
4	Occupational Health Management	Wellness of employees	200	10
5	Greenery Development & Solar Lighting	Plantation and non-conventional energy	200	10
6	Safety and Risk Mitigation Measures	Safety of workers	300	20

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

HSD	NA	HSD Tank	40 KL & 20 KL	40 KL & 20 KL	NA	Near-by area	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:	NA
	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):	NA
	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	No
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	13-09-2017

TOR Suggested Changes

Consolidated Statement Point Number	Original Remarks	Submitted Changes
2. Type of institution	ToR	Private
34. Rain Water Harvesting (RWH)	Level of the Ground water table: 2 - 5 m	The regional water level ranges between 3m to 10m below ground level during the post monsoon period. Pre- monsoon water levels are 5m to 15m below ground level
34. Rain Water Harvesting (RWH)	Size and no of RWH tank(s) and Quantity: Not applicable as it's a water-logged area hence recharge structures will be not feasible	The rainwater of roof top and surface runoff shall be used for artificial recharge through four recharge wells of 20m depth through silting pit (2 x 3 x 2.3m) & filter pit (2 x 2 x 2.8m)
34. Rain Water Harvesting (RWH)	Location of the RWH tank(s): Within Plant area	Within the plant site
34. Rain Water Harvesting (RWH)	Quantity of recharge pits: NA	45473 Cum
34. Rain Water Harvesting (RWH)	Size of recharge pits: NA	Area= 30 m2, Width = 2 m, Length = 3m
34. Rain Water Harvesting (RWH)	Budgetary allocation (Capital cost): NA	30 Lacs
34. Rain Water Harvesting (RWH)	Budgetary allocation (O & M cost): NA	1.5 Lacs
34. Rain Water Harvesting (RWH)	Details of UGT tanks if any: 10000 KL pond	NA
35. Storm water drainage	Natural water drainage pattern: Rain water will be channelized through the proposed drainage inside the plant to the proposed pond. There is no Nallah passing through the land.	Rain water will be channelized through the proposed drainage inside the plant to the proposed pond.
35. Storm water drainage	Quantity of storm water: 55861.5 Cum	55861.5 Cum
35. Storm water drainage	Size of SWD: 10000 KL pond	The rainwater of roof top and surface runoff shall be used for artificial recharge through four recharge wells of 20m depth through silting pit (2 x 3 x 2.3m) & filter pit (2 x 2 x 2.8m)
37. Solid waste Management	Location(s): NA	At earmarked Site within the plant area.
40. Stacks emission Details	Serial Number - 1, Section & units - Cement Mill - 1, Fuel Used with Quantity - Nil, Stack no. 1, Height from ground level (m) - 50, Internal diameter (m) - 4.0, Temp. of Exhaust Gases - 120 DegC AND Serial Number - 2, Section & units - Cement Mill - 2, Fuel Used with Quantity - Nil, Stack no. 1, Height from ground level (m) - 39, Internal diameter (m) - 1.6, Temp. of Exhaust Gases - 100 DegC	Serial Number - 1, Section & units - Cement Mill - 1, Fuel Used with Quantity - Nil, Stack no. 1, Height from ground level (m) - 42, Internal diameter (m) - 2.8, Temp. of Exhaust Gases - 93 DegC AND Serial Number - 2., Section & units - Cement Mill - 2, Fuel Used with Quantity - Nil, Stack no. 1, Height from ground level (m) - 39, Internal diameter (m) - 1.6, Temp. of Exhaust Gases - 90 DegC
41. Details of Fuel to be used	Serial Number -1, Type of Fuel - Coal, Existing - Nil, Proposed - 0.027 MTPA, Total - 0.027 MTPA and Serial Number - 2, Type of Fuel - Petcoke, Existing - Nil, Proposed - 0.02 MTPA, Total - 0.02 MTPA	Serial Number -1, Type of Fuel - Coal / Petcoke, Existing - Nil, Proposed - 0.027 / 0.02 MTPA, Total - 0.027 / 0.02 MTPA and Serial Number - 2, Type of Fuel - HSD (Used only in emergency), Existing - Nil, Proposed - 5 KLD, Total - 5 KLD
44. Green Belt Development	Number of trees to be planted: 1200 trees per ha	17344
44. Green Belt Development	List of proposed native trees: Local native species	Aldu, Ashok, Arjun, Bhaken, Shisham, Gulmohar, Neem, Pipal, Popular and Sares

45. Number and list of trees species to be planted in the ground	NA	Serial Number - 1, Name of the plant - Ailanthus excelsa, Common Name -Aldu, Quantity - As per availability and Survival rate, Characteristics & ecological importance - Tolerant to gaseous emission, Serial Number - 2, Name of the plant -Polyalthia longifolia, Common Name -Ashok, Quantity - As per availability and Survival rate, Characteristics & ecological importance - Dust Collector/ Tolerant to dust particles, Serial Number -3, Name of the plant - Terminalia arjuna, Common Name - Arjun, Quantity - Survival rate, Characteristics & ecological importance - Dust Collector/ Tolerant to dust particles, Serial Number - 4, Name of the plant -Melia azedarach, Common Name - Bakain, Quantity - Survival rate, Characteristics & ecological importance - Tolerant to gaseous emission, Serial Number - 5, Name of the plant - Dalbergia sissoo, Common Name -Shisham, Quantity - Survival rate, Characteristics & ecological importance - Dust Collector/ Tolerant to dust particles, Serial Number - 6, Name of the plant - Delonix regia, Common name - Gulmohar, Quantity - As per availability, Characteristics & ecological importance - Tolerant to gaseous emission, Serial no. 7, Name of the plant - Azadirachta indica, Common name - Neem, Quantity - As per availability, Characteristics & ecological importance - Tolerant to SO2 gases, Tolerant to Cement Dust, Serial no. 8, Name of the plant - Ficus religiosa, Common name - Pipal, Quantity - Survival rate, Characteristics & ecological importance - Dust Collector/ Tolerant to dust particles, Serial no. 9, Name of the plant - Populus alba, Common name - Popular, Quantity - As per availability, Characteristics & ecological importance - Dust Collector/ Tolerant to dust particles, Serial no. 10, Name of the plant - Albizia lebbeck, Common name - Siris, Quantity - Survival rate, Characteristics & ecological importance - Tolerant to gaseous emission
48. Energy	Power requirement:(Fuel used) - HSD- 40 KL	HSD- 5 KL

49. Energy saving by non-conventional method	Solar Energy	(1). Internal and external training and awareness programs on energy conservation. (2). Company has well defined energy policy (3). Energy Audits are conducted at regular intervals (4). Power saving by optimizing the Start/Stop Timings and interlocking of Equipments (5). Prevention of leakages of compressed air (6). Energy Saving by removing damper from Process fan and optimized operation with Medium Voltage Drive (MVD) (7). Optimization of Overall Plant Voltage Level at 415 by adjusting the Transformer Taps (8). Power Saver Beblac P-20 lighting panel (Installation of Energy Saver (Power Boss) Panel in Lighting System) (9). APFC (Automatic Power Factor Control) panel for HT and LT line to improve power factor (Unity) of the system (10). Energy efficient lights i.e. LED instead of conventional lighting. (11). Energy saving by using day light by installing light pipe and Using transparent sheet [day light] in Workshop, Store and Gypsum yard. (12). Optimum pulley diameter of the identified D/C fans (13). Switching off unnecessary lights by micro based timer (14). Welding set energy saver o Use of Optimum size and energy efficient Motors. (15). Energy conservation by stopping idle running hrs of equipment. (16). Automatic Star Delta starter for load varying application like conveyer belts etc. (17). Installation of Variable Frequency Drive for all the auxiliary bag filter fans for energy saving. (18). Installation of power less bag diverters for packing plant instead of conventional motorized bag diverters.
54. Traffic Management	Nos. of the junction to the main road & design of confluence: NA	Transportation of goods will be done via existing road network. The project site is well connected with with NH-9 (Now, NH - 65; ~4.5 Km in South Direction) and SH - 118 (~8.0 km in West direction)
54. Traffic Management	Total Parking area: NA	Parking Area within the plant site - 2.25 Acres
54. Traffic Management	Public Transport: NA	The proposed site is situated near Villages: Patas and Kangaon, Taluka: Daund, District: Pune (Maharashtra) and well connected with NH-9 (Now, NH - 65; ~4.5 Km in South Direction) and SH - 118 (~8.0 km in West direction). Nearest Railway Station is Patas Railway Station (~1.0 km in East direction from the project site)
54. Traffic Management	Width of all Internal roads (m): NA	6 Meters
Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	NA	There is no Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries
Category as per schedule of EIA Notification sheet	B	As per EIA Notification dated 14th Sept., 2006 and as amended from time to time; this project falls under Category 'B1', Project Activity '3 (b)' Cement Plants

Date of online submission	13-09-2017	11-06-2018

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. No effleunt generates from the propsoed activity. As per data submitted by the PP in the EIA report environmental parameters are found within the prescribed limits on 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	No waste water generates from the proposed activity.
Drainage pattern of the project	PP has designed storm water design based on the cotour of the propsoed area.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site. PP has obtained permission for ground water use from CGWA.
Solid Waste Management	The construction waste will be utilized in levelling of land and raod making. Hazardous waste like used oil will be sold to CPCB authorized recycler.
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 20 MW, which will be supplied by MSEDCL. PP also proposes to have 1250 KVA DG set with HSD as a fuel.
Traffic circulation system and risk assessment	PP proposes 6 meter wide internal roads with nine meter wide turning radius and provided sufficent parking space.
Landscape Plan	PP propsoes to have green belt on the area more tha.
Disaster management system and risk assessment	PP prepared disaster management plan to handle an emergency.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes EMP of cost of Rs. 100 Lakhs during construction phase, Rs. 2900 Lakhs as a capital cost and Rs. 115 Lakhs as O & M cost for 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 3(b)B1 as per EIA Notification, 2006. PP presented draft TOR based on standard TOR issued by MoEF & CC published in April, 2015 for proposed clinker grinding unit of 5.5 Million TPA cement production.

Public Hearing as per EIA Notification, 2006 is applicable.

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

ToR was granted to the PP in 144th meeting held on 18.11.2017 as per standard ToR and additional ToR points mentioned below,

1. PP to submit copy of the Pune district regional plan certified by the District Collector/Asst. Director Town Planning ,Pune indicating the permissible land use of proposed site.

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, location of solid waste and hazardous waste storage areas,parking 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 submit copy of on site emergency plan. PP to carry out HAZOP and QRA and submit report

5. PP to carry out life cycle analysis of all the activities involved in the manufacturing process with respect to the sustainability index, green house and ozone depletion potential, energy consumption etc.

6. PP to ensure that the transportation of fly ash shall in closed container only.

7. PP to submit detailed calculations for rain water harvesting.

8. PP to submit copy of permission obtained from competent authority for using ground water for proposed project activities.

9. PP to submit detailed use of solar energy/green energy along with calculations.

10. PP to carry out survey and prepare need base CSR activities.

11. PP to provide lightening arrestors.

Now PP submitted EIA/EMP reprot.

DECISION OF SEAC

After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal to the SEIAA for prior Environment Clearance subject to the following conditions..

Specific Conditions by SEAC:

1) PP to obtain NA permission for industrial use from the District Collector. PP also to get layout sanctioned from the Asst. Director town planning and building permission from the competent authority.
2) PP to prepare CER plan and implent in consultation with the District Authority as per OM dated 01.05.2018 issued by MoEF&CC.

FINAL RECOMMENDATION

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

Subject: Environment Clearance for Development of Access controlled Nagpur-Mumbai Expressway (NMEW) - Package IV from Kopargaon to Igatpuri (502.698 km to 623.379 km) in Ahmednagar and Nashik District, Maharashtra

Is a Violation Case: No

1.Name of Project	Development of Access controlled Nagpur-Mumbai Expressway (NMEW) - Package IV from Kopargaon to Igatpuri (502.698 km to 623.379 km) in Ahmednagar and Nashik District, Maharashtra
2.Type of institution	Government
3.Name of Project Proponent	Maharashtra State Road Development Corporation (Ltd.)
4.Name of Consultant	Building Environment (India) Pvt. Ltd
5.Type of project	Highway Project
6.New project/expansion in existing project/modernization/diversification in existing project	New Project
7.If expansion/diversification, whether environmental clearance has been obtained for existing project	No
8.Location of the project	Ahmednagar and Nashik District, Maharashtra
9.Taluka	Kopargaon, Sinnar and Igatpuri
10.Village	54 villages
Correspondence Name:	Maharashtra State Road Development Corporation (Ltd.)
Room Number:	--
Floor:	--
Building Name:	--
Road/Street Name:	Opp. Bandra Reclamation Bus Depot, Bandra (w) Mumbai - 400051
Locality:	Bandra (w) Mumbai - 400051
City:	Bandra
11.Area of the project	--
12.IOD/IOA/Concession/Plan Approval Number	--
	IOD/IOA/Concession/Plan Approval Number: --
	Approved Built-up Area: 000
13.Note on the initiated work (If applicable)	Not yet started
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.): 000
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)	Not applicable
20.Ground-coverage Percentage (%) (Note: Percentage of plot not open to sky)	Not applicable
21.Estimated cost of the project	63651300000

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	--
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)	120 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	Details of existing structures is attached in Annexure 2.2 of the EIA report.
30.Details of the demolition with disposal (If applicable)	Details are mentioned in EIA report.

31.Production Details

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

32.Total Water Requirement

Dry season:	**Source of water**	Darna Dam, Bhavali Dam, Mukane Dam, Kadwa Dam of
	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) :	16, 29,193 m3 in construction phase in construction phase
	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**	Darna Dam, Bhavali Dam, Mukane Dam, Kadwa Dam of
	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) :	16, 29,193 m3 in construction phasein construction phase
	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)	--	

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	--	--	60.00	--	--	--	--	--	54.00

34.Rain Water Harvesting (RWH)	**Level of the Ground water table:**	<2 m bgl
	Size and no of RWH tank(s) and Quantity:	240 structures
	Location of the RWH tank(s):	Every 500 m throughout the alignment
	Quantity of recharge pits:	1.1782 m3 per recharge pit
	Size of recharge pits :	Diameter: 1 m Depth: 1.5 m
	Budgetary allocation (Capital cost) :	60,00,000/- (Cost of one RWH structure estimated is 25,000/-)
	Budgetary allocation (O & M cost) :	2,98,09,890/- (Maintenance of RWH for 7 years)
	Details of UGT tanks if any :	Not applicable

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:**	54.00 (13.5 KLD / labour camp x 4 no. of camps)
	STP technology:	One Mobile STP per camp
	Capacity of STP (CMD):	14 KLD / labour camps
	Location & area of the STP:	One per labour camp
	Budgetary allocation (Capital cost):	8,00,000/-q
	Budgetary allocation (O & M cost):	80,000/-

36.Solid waste Management

Waste generation in the Pre Construction and Construction phase:	**Waste generation:**	Approximately 77 tonnes of construction waste generation
	Disposal of the construction waste debris:	• Demolition waste and construction waste will be utilized for highway construction. • Local development authority can be invited to use the debris/excess materials to be disposed for various development works like small village roads, small structures, embankments etc.
Waste generation in the operation Phase:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Mode of Disposal of waste:	**Dry waste:**	Not Applicable
	Wet waste:	Not Applicable
	Hazardous waste:	Not Applicable
	Biomedical waste (If applicable):	Not Applicable
	STP Sludge (Dry sludge):	Not Applicable
	Others if any:	Not Applicable
Area requirement:	**Location(s):**	near labour camp
	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:**	--
	O & M cost:	--

37.Effluent Charecterestics

Serial Number	Parameters	Unit	Inlet Effluent Charecterestics	Outlet Effluent Charecterestics	Effluent discharge standards (MPCB)
1	Not applicable as it is a road project and mobile STP will be provided as mentioned in Section 36.	--	--	--	--

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	Not applicable as it is a road project	--	--	--	--	--	--

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	--	--	--	--	--	--

40.Details of Fuel to be used

Serial Number	Type of Fuel	Existing	Proposed	Total
1	Not Applicable	--	--	--
41.Source of Fuel		Not Applicable		
42.Mode of Transportation of fuel to site		--		

43.Green Belt Development	**Total RG area :**	--
	No of trees to be cut :	Trees to be cut in forest area: 1236 trees Trees to be cut in non-forest area: 10,672 trees
	Number of trees to be planted :	Trees to be planted along the ROW in three tiers: 1,45,860
	List of proposed native trees :	Suggested list has been given in the EIA – Chapter 10 (Environmental Management Plan). The same shall be vetted by Competent State Government / Central Government Institute.
	Timeline for completion of plantation :	Within 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	--	--	--	-
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 as it is a road project	--	--

47.Energy

Power requirement:	**Source of power supply :**	Maharashtra State Electricity Distribution Company Limited (MSEDCL)
	During Construction Phase: (Demand Load)	40 kVA
	DG set as Power back-up during construction phase	40 kVA
	During Operation phase (Connected load):	60 kVA
	During Operation phase (Demand load):	48 kVA
	Transformer:	Transformer is not required. LT connection is required.
	DG set as Power back-up during operation phase:	Not required. 10 KVA UPS for Toll plaza office
	Fuel used:	High speed diesel
	Details of high tension line passing through the plot if any:	220 KV & 400 KVA line. Details are given in EIA.

48.Energy saving by non-conventional method:

Not applicable

49.Detail calculations & % of saving:

Serial Number	Energy Conservation Measures	Saving %
1	Not applicable	--

50.Details of pollution control Systems

Source	Existing pollution control system	Proposed to be installed
Details has been provided in Serial No. 52 in Environmental Management plan Budgetary Allocation	--	--

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

51.Environmental Management plan Budgetary Allocation

a) Construction phase (with Break-up):

Serial Number	Attributes	Parameter	Total Cost per annum (Rs. In Lacs)
1	Environmental monitoring during construction phase	--	4,17,60,000/-

2	Noise Barriers (of 4 m height) along the stretches of project roads near habitations in operation phase for the total length of 7444.1 m.	--	31,26,52,200/-
3	Rainwater Harvesting Structures @ every 500 m (Approx. 240 structures)	--	60,00,000/-
4	Plantation of 1,45,860 trees	--	3,64,65,000/-
5	Fencing Around trees	--	1,00,00,000 /-
6	Brick guard of 1,45,860 trees	--	14,58,60,000 /-
7	Environmental measures in worker's camp	--	20,00,000/-
8	Total	--	55,47,37,200/-

b) Operation Phase (with Break-up):

Serial Number	Component	Description	Capital cost Rs. In Lacs	Operational and Maintenance cost (Rs. in Lacs/yr)
1	Environmental monitoring	For 3 years	--	1,20,14,837/-
2	RWH maintenance	(for 7 years)	--	2,98,09,890/-
3	Plantations	(for 7 years)	--	9,34,24,969/-
4	Environmental training	--	--	10,00,000/-
5	Total	--	--	13,62,49,696/-

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
Not Applicable	--	--	--	--	--	--	--

52.Any Other Information

No Information Available

53.Traffic Management

	Nos. of the junction to the main road & design of confluence:	Not Applicable as it is greenfield project.

Parking details:	**Number and area of basement:**	Not Applicable as it is greenfield project.
	Number and area of podia:	Not Applicable as it is greenfield project.
	Total Parking area:	Not Applicable as it is greenfield project.
	Area per car:	Not Applicable as it is greenfield project.
	Area per car:	Not Applicable as it is greenfield project.
	Number of 2-Wheelers as approved by competent authority:	Not Applicable as it is greenfield project.
	Number of 4-Wheelers as approved by competent authority:	Not Applicable as it is greenfield project.
	Public Transport:	Not Applicable as it is greenfield project.
	Width of all Internal roads (m):	Not Applicable as it is greenfield project.
	CRZ/ RRZ clearance obtain, if any:	Not applicable
	Distance from Protected Areas / Critically Polluted areas / Eco-sensitive areas/ inter-State boundaries	Eco Sensitive Zone of the Kalsubai Wildlife Sanctuary is 8.4 km from the proposed alignment
	Category as per schedule of EIA Notification sheet	7 (f) category ' B '
	Court cases pending if any	No
	Other Relevant Informations	--
	Have you previously submitted Application online on MOEF Website.	Yes
	Date of online submission	25-02-2016

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.
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 to provide movable toiles at the sites of workers accomodation.
Drainage pattern of the project	PP has conducted detailed contour study for design of the proposed project and included in the EIA report.
Ground water parameters	As per data submitted by PP, ground water parameters are within the prescribed limits at project site.

Solid Waste Management	Construction waste will be used for highway constrcution. No hazardous waste will be geenrated.
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 48 kVA, which will be supplied by MSEDCL.
Traffic circulation system and risk assessment	Project it self is a express way project.
Landscape Plan	PP propses to plant tress along the roads and as a compensatory afforestration.
Disaster management system and risk assessment	PP proposes adequate steps to handle an emergency.
Socioeconomic impact assessment	PP has carried out socio economic impact study and included in the EIA report.
Environmental Management Plan	PP proposes an EMP csot of Rs. 55.47 Cr.
Any other issues related to environmental sustainability	Not Applicable

Brief information of the project by SEAC

PP submitted their ToR to the EAC of MoEF&CC. EAC granted the ToR to the proposed project on 17.08.2016.

EAC,MoEF&CC again considered the proposal in their 191st meeting and decided as below,

" ***After brief deliberation during its 191st meeting on 25th June, 2018, EAC observed that the proposal comes under the Category B, hence suggested for transferring it to SEIAA, Maharashtra for consideration.***"

PP submitted EIA/EMP report.

In view of above remark from EAC, MoEF&CC , SEAC-1 considered the proposal for appraisal.

DECISION OF SEAC

The Public Hearing was conducted on 13.04.2017 at Kokamthan, Dist. Ahmednagar and on 24.01.2018 at Sinnar, Dist. Nashik.

After detailed deliberations with the PP and their accredited consultant, SEAC decided to recommend the proposal to the SEIAA for prior Environment Clearance subject to following conditions..

Specific Conditions by SEAC:

1) PP to prepare and implement CER plan in consultation with the respective District Authoriies.
2) PP to ensure dumping of excavated material at designated site and take necessary steps to prevent adverse impact on nearby habitation and agricultural fields etc.
3) PP to undertake plantation of local species of trees along the proposed express way to maintian biodiversity.

FINAL RECOMMENDATION

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