



सत्यमेव जयते

**Government of India  
Ministry of Environment, Forest and Climate Change**



Date: 10/10/2023

**ACKNOWLEDGEMENT**

This is to acknowledge that M/S. SYNGENE INTERNATIONAL LIMITED has provided the information on PARIVESH Portal in respect of Change in Product mix without increase in Pollution load by M/s. Syngene International Limited in the format attached herewith under the provisions of Para 7(ii) b of EIA Notification, 2006 and its subsequent amendment S.O.980 (E), dated 02nd March 2021.

To claim exemption from obtaining Prior Environment Clearance under the provisions of Para 7(ii) b of EIA Notification, 2006 and its subsequent amendment S.O 980 (E) dated 02nd March 2021 in respect of any increase in production capacity with or without any change in (i) raw material-mix or (ii) product-mix or (iii) quantities within products or (iv) number of products including new products falling in the same category or (v) configuration of the plant or process or (vi) operations in existing area or (vii) In areas contiguous to the existing area specified in the environmental clearance of the project, the project proponent / SPCB or UTPCC shall follow the following process:

1. The project proponent shall inform the SPCB or UTPCC, as the case may be, in specified format along with: (i) 'No increase in Pollution Load' certificate from the Environmental Auditor or reputed institutions empanelled by the SPCB or UTPCC or CPCB or Ministry; (ii) last Consent to Operate certificate for the project or activity; and (iii) online system generated acknowledgement of uploading of intimation and 'no increase in pollution load' certificate on PARIVESH Portal.
2. Based on the submission of above information, the project proponent may carry on the proposed activity as per the submitted details. However, if on verification the SPCB or UTPCC, as the case may be, holds that the change or expansion or modernization will result or has resulted in increase in pollution load, the exemption claimed under this clause shall not be valid and it shall be deemed that the project proponent was liable to obtain Prior Environmental Clearance before under taking such changes or increase, as per the clause (a) of sub-paragraph (ii) of paragraph 7 of EIA Notification, 2006 and the provisions of Environment (Protection) Act, 1986 shall apply accordingly.

Encl: Attached the Information provided by the project proponent

**Application for No Increase in Pollution Load - Form-10**

**Basic Details**

1.		Yes
Whether Project /Activity accorded prior EC?		
1.1.	SIA/KA/IND2/2375/2015	
Proposal No.		
1.2.	ACTIVE PHARMACEUTICAL INGREDIENTS (API) AND NON API MANUFACTURING UNIT BY M/s. SYNGENE INTERNATIONAL LIMITED	

Name of Project		
<b>1.3.</b> Whether the Project Activity attracts the provisions under	7(ii) (b)	
<b>1.3.1.</b> Category	B1	
<b>1.3.2.</b> Whether Project/Activity falls in the category of Processing or Production or Manufacturing Sectors?	Yes	
<b>1.3.3.</b> Whether multiple items (Components) as per the notification involved in the proposal?	No	
<b>1.3.3.1.</b> Item No. as per schedule to EIA Notification, 2006 for Major Activity	5(f) Synthetic organic chemicals industry	Bulk drugs and intermediates (located within notified industrial area)
<b>1.3.3.2.</b> Capacity	708	TPA
<b>1.3.3.3.</b> Whether Project/Activity falls in 'B2' Category	No	
<b>2.</b> Whether the project proposed to be located in the Notified industrial area?	Yes	
<b>2.1.</b> Type of Industrial Area	e-payments sez	
<b>2.2.</b> Name of the Notified Industrial Area	Mangalore Special Economic Zone Limited	
<b>2.3.</b> Whether the Industrial Area notified?	Before 14th September, 2006	
<b>2.3.1.</b> Notification copy of Industrial area in PDF	EC_MSEZ.pdf Preview	
<b>2.4.</b> Whether Prior Environmental Clearance available for Notified Industrial Area?	Yes	
<b>2.4.1.</b> MoEFCC / SEIAA File Number	21-383/2007-IA-III	

2.4.2. Date of Grant	03-04-2008
2.4.3. Copy of EC	EC_MSEZ.pdf Preview

### 3. Details of Consent under Air (P&CP) Act, 1981 & Water (P&CP) Act, 1974

Consent No./Application No	Date	Valid Up to	Copy of Consent order
AW-317179	15/02/2020	30/06/2024	5. CFO 2020-2024.pdf Preview

### 4. Details of Authorization under Hazardous & Other Waste Management Rules, 2016 and subsequent amendment

Authorization No./ Application No	Date	Valid Up to	Copy of Authorization order
319695	19/08/2020	30/06/2024	HW Authorization_compressed.pdf Preview

## Product Details

### 1. Details of products & by-products including changes in product mix

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by-products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Trifluoromethoxy Imidazole	9	TPA	Trifluoromethoxy Imidazole	9	TPA	The product has been Removed
Azaspiro carboxylic acid	3	TPA	Azaspiro carboxylic acid	0	TPA	The product has been Removed
Remdesivir	0	TPA	Remdesivir	5	TPA	Proposed product
Benzamide Methanesulfonate	4	TPA	Benzamide Methanesulfonate	0	TPA	The product has been Removed
Indolpiperidone carboxylate	2	TPA	Indolpiperidone carboxylate	0	TPA	The product has been Removed
Methyl pyrrolidine hydrochloride	4	TPA	Methyl pyrrolidine hydrochloride	4	TPA	The product has been Removed
Flouren Glutamine	36	TPA	Flouren Glutamine	0	TPA	The product has been Removed
Rosuvastatin	0	TPA	Rosuvastatin	10	TPA	Proposed product
Pyrrolidine Carboxamide	4	TPA	Pyrrolidine Carboxamide	0	TPA	The product has been Removed
Azabicyclo Octanone	3	TPA	Azabicyclo Octanone	0	TPA	The product

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by-products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
						has been Removed
Sodium dihydrogen phosphate 2 H <sub>2</sub> O	0	TPA	Sodium dihydrogen phosphate 2 H <sub>2</sub> O	8	TPA	Proposed product
Isophthalate Derivative	10	TPA	Isophthalate Derivative	0	TPA	The product has been Removed
Atorvastatin calcium	0	TPA	Atorvastatin calcium	20	TPA	Proposed product
Hydroxymethyl Trihydrofuran	9	TPA	Hydroxymethyl Trihydrofuran	0	TPA	The product has been Removed
Biphenyl derivative	2	TPA	Biphenyl derivative	0	TPA	The product has been Removed
Methoxyphenyl Oxetane	4	TPA	Methoxyphenyl Oxetane	0	TPA	The product has been Removed
Posaconazole	0	TPA	Posaconazole	10	TPA	Proposed product
Proline derivatives	30	TPA	Proline derivatives	0	TPA	The product has been Removed
Custom Synthesis of R&D Products (Biopharma unit)	1	TPA	Custom Synthesis of R&D Products (Biopharma unit)	1	TPA	Proposed product
Benzonitrile Amide	3	TPA	Benzonitrile Amide	0	TPA	The product has been Removed
Elobixibat monohydrate	0	TPA	Elobixibat monohydrate	15	TPA	Proposed product
Tetramethyl furanone	15	TPA	Tetramethyl furanone	0	TPA	The product has been Removed
Valsartan intermediate	50	TPA	Valsartan intermediate	50	TPA	Proposed product
Sodium citrate 2 H <sub>2</sub> O	0	TPA	Sodium citrate 2 H <sub>2</sub> O	18	TPA	Proposed product
Dibromo Pyrazine	10	TPA	Dibromo Pyrazine	0	TPA	The product has been Removed
Sodium Acetate Anhydrous extrapure	0	TPA	Sodium Acetate Anhydrous extrapure	6	TPA	Proposed product
Synthetic Glycol	0	TPA	Synthetic Glycol	10	TPA	Proposed product
Methoxy Oxobutanoic Acid	3	TPA	Methoxy Oxobutanoic Acid	0	TPA	The product has been Removed
Ethyl Guar	0	TPA	Ethyl Guar	27	TPA	Proposed product
LYP 010	0	TPA	LYP 010	2	TPA	Proposed product

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by-products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Sodium phosphate mono basic mono hydrate	0	TPA	Sodium phosphate mono basic mono hydrate	5	TPA	proposed product
Chloropyridine carboxylic Acid	20	TPA	Chloropyridine carboxylic Acid	0	TPA	The product has been Removed
Butanoic Acid	3	TPA	Butanoic Acid	0	TPA	The product has been Removed
Itaconic Acid ester	10	TPA	Itaconic Acid ester	0	TPA	The product has been Removed
PF-02262547 (2,4,5-Trichloropyrimidine)	0	TPA	PF-02262547 (2,4,5-Trichloropyrimidine)	5	TPA	Proposed product
Pyran-3-Carboxamide	10	TPA	Pyran-3-Carboxamide	0	TPA	The product has been Removed
(Amino cyclopropyl) Benzoate	2	TPA	(Amino cyclopropyl) Benzoate	0	TPA	The product has been Removed
Indanone derivatives	10	TPA	Indanone derivatives	0	TPA	The product has been Removed
Fluoro oxazine	3	TPA	Fluoro oxazine	0	TPA	The product has been Removed
Acetamide Tetrahydro benzothiadizepene	10	TPA	Acetamide Tetrahydro benzothiadizepene	0	TPA	The product has been Removed
Isobutylamide Thiazolyl Resorcinol derivative, W630	0	TPA	Isobutylamide Thiazolyl Resorcinol derivative, W630	9	TPA	Proposed product
6-Chloro-2-hexanone	0	TPA	6-Chloro-2-hexanone	20	TPA	Proposed product
4-Bromo-2-fluoro biphenyl	0	TPA	4-Bromo-2-fluoro biphenyl	15	TPA	Proposed product
Paxlovid	0	TPA	Paxlovid	4	TPA	Proposed product
Benzyl Indanone	7	TPA	Benzyl Indanone	0	TPA	The product has been Removed
Methoxy acridine derivative	0	TPA	Methoxy acridine derivative	6	TPA	Proposed product
Sodium Sulphate (by-product of Elobixibat monohydrate & Benzodiazepine phenyl acetamido acetic acid)	0	TPA	Sodium Sulphate (by-product of Elobixibat monohydrate & Benzodiazepine phenyl acetamido acetic acid)	82	TPA	Proposed by-product
Orlistat	0	TPA	Orlistat	3	TPA	Proposed products
Quinoline derivatives	3	TPA	Quinoline derivatives	0	TPA	The product has been Removed
Custom Synthesis of R&D	0	TPA	Custom Synthesis of R&D	36	TPA	Proposed

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Products (API unit)			Products (API unit)			product
Sodium phosphate di basic hepta hydrate	0	TPA	Sodium phosphate di basic hepta hydrate	5	TPA	proposed product
Cyclene Ester	4	TPA	Cyclene Ester	4	TPA	The product has been Removed
Cloro pyridine Carboxamide	100	TPA	Cloro pyridine Carboxamide	0	TPA	The product has been Removed
1H-Pyrazole-3-Carboxamide	3	TPA	1H-Pyrazole-3-Carboxamide	0	TPA	The product has been Removed
Dichloro disodium benzoate	20	TPA	Dichloro disodium benzoate	0	TPA	The product has been Removed
Pyrrrole – Pyrimidine	10	TPA	Pyrrrole – Pyrimidine	0	TPA	The product has been Removed
Sodium phosphate di basic hepta (anhydrous)	0	TPA	Sodium phosphate di basic hepta (anhydrous)	8	TPA	Proposed product
Cetyl Ester	4	TPA	Cetyl Ester	0	TPA	The product has been Removed
Bromo Aniline	20	TPA	Bromo Aniline	0	TPA	The product has been Removed
Sarcosine	0	TPA	Sarcosine	5	TPA	Proposed product
Dichloro carboxamide	7	TPA	Dichloro carboxamide	0	TPA	The product has been Removed
Imidazole Dicarbamate	1	TPA	Imidazole Dicarbamate	0	TPA	The product has been Removed
Dapagliflozin butane 2,3-diol monohydrate	0	TPA	Dapagliflozin butane 2,3-diol monohydrate	5	TPA	Proposed product
Nitro Imadazole	20	TPA	Nitro Imadazole	0	TPA	The product has been Removed
Bromo-Methoxy Pyrrole Pyrimidine	20	TPA	Bromo-Methoxy Pyrrole Pyrimidine	0	TPA	The product has been Removed
Sodium Acetate Anhydrous	0	TPA	Sodium Acetate Anhydrous	5	TPA	Proposed product
Vactosertib	0	TPA	Vactosertib	4	TPA	Proposed product
DL Serine hydrazide HCl	0	TPA	DL Serine hydrazide HCl	20	TPA	Proposed product
Oxathiepine Carboxylate derivatives	3	TPA	Oxathiepine Carboxylate derivatives	0	TPA	The product has been Removed

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by-products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
8-chloronaphthalen-piperizine derivative	0	TPA	8-chloronaphthalen-piperizine derivative	1	TPA	Proposed product
Trifluoromethoxy Oxazine	5	TPA	Trifluoromethoxy Oxazine	0	TPA	The product has been Removed
CBTA (Cyclobutyl triazole derivative)	0	TPA	CBTA (Cyclobutyl triazole derivative)	6	TPA	Proposed product
Hydroxychloroquine Sulphate	0	TPA	Hydroxychloroquine Sulphate	6	TPA	Proposed product
Trifluoromethyl Pyrimidine	15	TPA	Trifluoromethyl Pyrimidine	0	TPA	The product has been Removed
Disodium hydrogen orthophosphate Anhydrous	0	TPA	Disodium hydrogen orthophosphate Anhydrous	2	TPA	Proposed product
Dichloro pyridinone	15	TPA	Dichloro pyridinone	0	TPA	The product has been Removed
Allyl Derivatives	10	TPA	Allyl Derivatives	0	TPA	The product has been Removed
Dibenzofuran	9	TPA	Dibenzofuran	0	TPA	The product has been Removed
Methoxy amino Chlorobenzene	100	TPA	Methoxy amino Chlorobenzene	0	TPA	The product has been Removed
Phenyl quinazoline	6	TPA	Phenyl quinazoline	0	TPA	The product has been Removed
Bromo thiadiazepine	0	TPA	Bromo thiadiazepine	5	TPA	Proposed product
Phenoxy alaninate	2	TPA	Phenoxy alaninate	0	TPA	The product has been Removed
ACH-0145993	0	TPA	ACH-0145993	5	TPA	Proposed product
APR-246	0	TPA	APR-246	5	TPA	Proposed product
Pyranone	0	TPA	Pyranone	12	TPA	Proposed products
Trityl Olmesartan	0	TPA	Trityl Olmesartan	15	TPA	Proposed product
Tetramethyl Hydropyran	5	TPA	Tetramethyl Hydropyran	0	TPA	The product has been Removed
Bromo pyrazine	3	TPA	Bromo pyrazine	0	TPA	The product has been Removed
Nicotin Acid Ester	5	TPA	Nicotin Acid Ester	0	TPA	The product has been Removed

List of products/by-products permitted under EC / CTO with CAS Number	Quantity permitted under EC / CTO	Unit	List of products/by-products proposed under clause 7(ii)(b) with CAS Number	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Benzyl chloropyrimidine derivative	10	TPA	Benzyl chloropyrimidine derivative	0	TPA	The product has been Removed
Custom Synthesis of R&D Products (Non-API unit)	0	TPA	Custom Synthesis of R&D Products (Non-API unit)	24	TPA	Proposed product
Boc Pyrolidine	30	TPA	Boc Pyrolidine	0	TPA	The product has been Removed
Chloromethoxy sulphonamide	15	TPA	Chloromethoxy sulphonamide	0	TPA	The product has been Removed
Methoxy naphthalene Derivative	6	TPA	Methoxy naphthalene Derivative	0	TPA	The product has been Removed
Bromochloro alkyl aniline	20	TPA	Bromochloro alkyl aniline	0	TPA	The product has been Removed
Sodium acetate tri hydrate	0	TPA	Sodium acetate tri hydrate	5	TPA	Proposed product
Diketotriazolopyridine derivative	0	TPA	Diketotriazolopyridine derivative	4	TPA	Proposed product
Aniline derivatives	5	TPA	Aniline derivatives	0	TPA	The product has been Removed
Benzodiazepine phenylacetamido acetic acid	6	TPA	Benzodiazepine phenylacetamido acetic acid	6	TPA	Existing qty is continued

## 2. Details of Raw materials including water consumption and fuel consumption including changes in the raw material mix

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Methyl tertiary butyl ether	2493.37	TPA	Methyl tertiary butyl ether	2077.81	TPA	
Epichlorohydrin	14.19	TPA	Epichlorohydrin	10.91	TPA	
3,3-Dimethyl-2-(2,2,2-trifluoro-acetylamino)-butyric acid	0	TPA	3,3-Dimethyl-2-(2,2,2-trifluoro-acetylamino)-butyric acid	7.53	TPA	
Conc.HCl	708.05	TPA	Conc.HCl	590.04	TPA	
Phenyl dichlorophosphate	0	TPA	Phenyl dichlorophosphate	9.10	TPA	
Sodium metabisulfite	31.06	TPA	Sodium metabisulfite	25.88	TPA	
6-diethylamino-2-aminopentane	4.49	TPA	6-diethylamino-2-aminopentane	3.46	TPA	
Isopropyl alcohol	1647.77	TPA	Isopropyl alcohol	1220.57	TPA	
Phosphoric acid	0	TPA	Phosphoric acid	11.55	TPA	
Benzoyl chloride	0	TPA	Benzoyl chloride	16.50	TPA	
N,N-Diisopropyl ethyl amine	6.71	TPA	N,N-Diisopropyl ethyl amine	5.59	TPA	
Isopropyl magnesium chloride (2.0 M) solution in THF	151.82	TPA	Isopropyl magnesium chloride (2.0 M) solution in THF	112.46	TPA	

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
2-chlorobenzonitrile	36.94	TPA	2-chlorobenzonitrile	28.42	TPA	
Methylethyl ketone	31.87	TPA	Methylethyl ketone	26.57	TPA	
P-tolyl magnesium chloride[2M in THF]	39.88	TPA	P-tolyl magnesium chloride[2M in THF]	27.50	TPA	
Pyridinium para toluene sulfonate	0	TPA	Pyridinium para toluene sulfonate	0.41	TPA	
Sodium chlorite	5.87	TPA	Sodium chlorite	4.90	TPA	
L-Alanine	0	TPA	L-Alanine	3.05	TPA	
Methylene dichloride(MDC)	23073.73	TPA	Methylene dichloride(MDC)	19228.11	TPA	
Sodium bisulphate	0	TPA	Sodium bisulphate	2.01	TPA	
2,2-dimethoxy propane	10.75	TPA	2,2-dimethoxy propane	8.27	TPA	
Di-tert-butyl dicarbonate	62.82	TPA	Di-tert-butyl dicarbonate	48.33	TPA	
Tri ethyl silane	0	TPA	Tri ethyl silane	2.72	TPA	
N,N-diethyl aniline	12.97	TPA	N,N-diethyl aniline	10.81	TPA	
TMSCN	18.79	TPA	TMSCN	14.46	TPA	
Raney Nickel	10.00	TPA	Raney Nickel	6.90	TPA	
1-Bromo-8-chloro naphthalene	0	TPA	1-Bromo-8-chloro naphthalene	2.21	TPA	
DL Serine	85.32	TPA	DL Serine	65.63	TPA	
2,3-Dibenzoyl-D-tartaric acid	0	TPA	2,3-Dibenzoyl-D-tartaric acid	5.14	TPA	
Molecular sieves 4A0 powder	5.99	TPA	Molecular sieves 4A0 powder	4.99	TPA	
N-iodosuccinimide	29.15	TPA	N-iodosuccinimide	24.29	TPA	
Triethyl amine	238.39	TPA	Triethyl amine	183.38	TPA	
Methyl Mg solution -THF	62.31	TPA	Methyl Mg solution -THF	46.15	TPA	
N-Formyl leucine	0	TPA	N-Formyl leucine	1.54	TPA	
Chloro bromo propane	0	TPA	Chloro bromo propane	19.27	TPA	
Chloromethyl silane	0	TPA	Chloromethyl silane	2.29	TPA	
Trifluoro acetic acid	0	TPA	Trifluoro acetic acid	8.16	TPA	
4-chloromethyl-5-methyl 1,3-dioxol-2-one	0	TPA	4-chloromethyl-5-methyl 1,3-dioxol-2-one	3.33	TPA	
DMAP	15.32	TPA	DMAP	11.78	TPA	
Toluene	2678.42	TPA	Toluene	2060.32	TPA	
2-Ethoxy ethanol	0	TPA	2-Ethoxy ethanol	5.95	TPA	
Potassium nitrate	10.80	TPA	Potassium nitrate	15.66	TPA	
Anhydrous MnCl <sub>2</sub>	0	TPA	Anhydrous MnCl <sub>2</sub>	2.75	TPA	
2,4-Dihydroxy acetophenone	20.69	TPA	2,4-Dihydroxy acetophenone	15.92	TPA	
Paraformaldehyde	0	TPA	Paraformaldehyde	12.18	TPA	
Ethyl chloride	0	TPA	Ethyl chloride	90.09	TPA	
1-propane phosphonic acid cyclic anhydride (50% solution in ethyl acetate)	0	TPA	1-propane phosphonic acid cyclic anhydride (50% solution in ethyl acetate)	3.59	TPA	
Palladium Catalyst	0	TPA	Palladium Catalyst	2.64	TPA	
Potassium carbonate	234.99	TPA	Potassium carbonate	162.06	TPA	
5-(4-(bromo methyl D(1,1-biphenyl) 2-yl)-N-(triphenyl methyl tetrazole	17.29	TPA	5-(4-(bromo methyl D(1,1-biphenyl) 2-yl)-N-(triphenyl methyl tetrazole	13.31	TPA	

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Pyrrolidine	0	TPA	Pyrrolidine	0.50	TPA	
Methane sulfonyl chloride	9.36	TPA	Methane sulfonyl chloride	6.93	TPA	
6 N HCl	51.06	TPA	6 N HCl	39.28	TPA	
2-bromomethyl-2-n-butyl hexanoic acid	71.77	TPA	2-bromomethyl-2-n-butyl hexanoic acid	55.21	TPA	
Pyrolo[2,1-f][1,2,4]triazin-4-amine	20.60	TPA	Pyrolo[2,1-f][1,2,4]triazin-4-amine	14.21	TPA	
D6 syrup	25.96	TPA	D6 syrup	21.63	TPA	
Witting salt	0	TPA	Witting salt	23.47	TPA	
Chloroacetic acid	5.73	TPA	Chloroacetic acid	4.77	TPA	
2-Ethyl-1-butanol	0	TPA	2-Ethyl-1-butanol	6.70	TPA	
1-(6-Methyl-pyridin-2-yl)-2-[1,2,4]triazolo[1,5-a]pyridin-6-yl-ethane-1,2-dione	0	TPA	1-(6-Methyl-pyridin-2-yl)-2-[1,2,4]triazolo[1,5-a]pyridin-6-yl-ethane-1,2-dione	5.98	TPA	
Benzotriazole	48.98	TPA	Benzotriazole	40.82	TPA	
Glacial acetic acid	0	TPA	Glacial acetic acid	7.73	TPA	
Boron dimethyl sulphide complex	19.77	TPA	Boron dimethyl sulphide complex	15.21	TPA	
Aqueous Ammonia	0	TPA	Aqueous Ammonia	19.04	TPA	
Heptane	5955.55	TPA	Heptane	4764.44	TPA	
Copper (I) Oxide	0.33	TPA	Copper (I) Oxide	0.28	TPA	
N,N-dimethyl acetamide	56.55	TPA	N,N-dimethyl acetamide	47.12	TPA	
Sodium sulphite	3.66	TPA	Sodium sulphite	3.05	TPA	
1.6 M n-BuLi	25.61	TPA	1.6 M n-BuLi	19.70	TPA	
Palmitic acid	0	TPA	Palmitic acid	0.43	TPA	
Amano Lipase hydrolase AH-37	0	TPA	Amano Lipase hydrolase AH-37	0.34	TPA	
Acetic anhydride	0	TPA	Acetic anhydride	34.95	TPA	
Ethyl chloroacetate	12.44	TPA	Ethyl chloroacetate	9.95	TPA	
Magnesium chloride	0	TPA	Magnesium chloride	1.39	TPA	
TFAA	15.19	TPA	TFAA	11.69	TPA	
Cetyl alcohol	0	TPA	Cetyl alcohol	0.94	TPA	
Phosphorous oxy chloride	80.34	TPA	Phosphorous oxy chloride	55.41	TPA	
Dimethyl formamide	641.99	TPA	Dimethyl formamide	493.85	TPA	
Bromine dimethyl sulphide	0	TPA	Bromine dimethyl sulphide	9.66	TPA	
Cesium carbonate(Anhydrous)	0	TPA	Cesium carbonate(Anhydrous)	14.70	TPA	
PhMgCl-THF	122.91	TPA	PhMgCl-THF	102.43	TPA	
tert-butyl 2,4-dichloro-5,8-dihydropyrido [3,4-d]pyrimidine-7(6H)-carboxylate	0	TPA	tert-butyl 2,4-dichloro-5,8-dihydropyrido [3,4-d]pyrimidine-7(6H)-carboxylate	3.03	TPA	
Methyl acetoacetate	45.09	TPA	Methyl acetoacetate	33.40	TPA	
Sodium hydride	0	TPA	Sodium hydride	5.25	TPA	
H2 Gas	0	TPA	H2 Gas	0.33	TPA	
N-bromo succinimide	174.75	TPA	N-bromo succinimide	145.63	TPA	
HBr aqueous 48%	10.84	TPA	HBr aqueous 48%	8.68	TPA	
L-Cysteine	10.46	TPA	L-Cysteine	7.75	TPA	

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
3-Methoxy Thiophenol	11.17	TPA	3-Methoxy Thiophenol	8.59	TPA	
Pivalic acid	0	TPA	Pivalic acid	3.85	TPA	
Thio urea	0	TPA	Thio urea	7.16	TPA	
Lithium Aluminium hydride 2.4 M in THF	38.25	TPA	Lithium Aluminium hydride 2.4 M in THF	28.33	TPA	
Calcium Acetate	0	TPA	Calcium Acetate	7.33	TPA	
2-((4 Aminopentyl)(ethyl)amino)ethanol	8.17	TPA	2-((4 Aminopentyl)(ethyl)amino)ethanol	6.28	TPA	
Potassium hydrogen carbonate	32.02	TPA	Potassium hydrogen carbonate	22.08	TPA	
Cyclohexane	569.17	TPA	Cyclohexane	474.31	TPA	
Iodo benzene diacetate	12.62	TPA	Iodo benzene diacetate	10.10	TPA	
D-5 ester	15.29	TPA	D-5 ester	12.74	TPA	
2-amino-6-methoxy-benzothiazole	42.47	TPA	2-amino-6-methoxy-benzothiazole	32.67	TPA	
AIBN	0	TPA	AIBN	0.92	TPA	
Acetyl chloride	0	TPA	Acetyl chloride	4.55	TPA	
BF3 ET.20 50% Solution	0	TPA	BF3 ET.20 50% Solution	4.95	TPA	
Sodium hydrogen phosphate	29.38	TPA	Sodium hydrogen phosphate	24.49	TPA	
Dimethoxy acetaldehyde	0	TPA	Dimethoxy acetaldehyde	10.63	TPA	
Citric acid	109.55	TPA	Citric acid	91.29	TPA	
4, 7-dichloroquinoline	0	TPA	4, 7-dichloroquinoline	0.24	TPA	
LiCl	0	TPA	LiCl	1.39	TPA	
Acetic acid	0	TPA	Acetic acid	90.98	TPA	
2,4-Dichloro benzoic acid	3.54	TPA	2,4-Dichloro benzoic acid	2.72	TPA	
Hydrazine hydrate 80%	132.99	TPA	Hydrazine hydrate 80%	106.39	TPA	
Sodium Iodide	0	TPA	Sodium Iodide	0.42	TPA	
Benzene sulfonyl chloride	0	TPA	Benzene sulfonyl chloride	4.07	TPA	
2,3-butane diol	0	TPA	2,3-butane diol	2.48	TPA	
N-methylmorpholine	52.35	TPA	N-methylmorpholine	43.63	TPA	
Orthophosphoric acid	22.09	TPA	Orthophosphoric acid	18.41	TPA	
Tetrahydrofuran	2036.63	TPA	Tetrahydrofuran	1566.64	TPA	
Diisopropyl ether	106.05	TPA	Diisopropyl ether	81.58	TPA	
Isobutyryl chloride	0	TPA	Isobutyryl chloride	7.42	TPA	
Ammonium chloride	159.94	TPA	Ammonium chloride	133.29	TPA	
sodium hydroxide	377.15	TPA	sodium hydroxide	314.29	TPA	
Alpha-(S)-methyl benzyl amine	0	TPA	Alpha-(S)-methyl benzyl amine	1.68	TPA	
Potassium t-butoxide	25.44	TPA	Potassium t-butoxide	17.55	TPA	
Activated charcoal	0	TPA	Activated charcoal	5.02	TPA	
Potassium bromide	0	TPA	Potassium bromide	1.28	TPA	
Aldehyde	0	TPA	Aldehyde	9.08	TPA	
Boron trichloride-MDC	221.74	TPA	Boron trichloride-MDC	170.57	TPA	
TBTU	74.49	TPA	TBTU	62.07	TPA	
2-Fluoro acetic acid	0	TPA	2-Fluoro acetic acid	0.27	TPA	
4-Bromo-1-chloro-2-(4-ethoxy	0	TPA	4-Bromo-1-chloro-2-(4-ethoxy	4.11	TPA	

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
benzyl)benzene			benzyl)benzene			
L(+Tartaric acid	5.15	TPA	L(+Tartaric acid	3.81	TPA	
tert-Butoxy bis(dimethylamino)methane (Bredereck's reagent)	0	TPA	tert-Butoxy bis(dimethylamino)methane (Bredereck's reagent)	24.76	TPA	
Potassium hydroxide	177.18	TPA	Potassium hydroxide	122.20	TPA	
Sodium sulphate	184.53	TPA	Sodium sulphate	153.78	TPA	
Hydroxyl amine hydrochloride	0	TPA	Hydroxyl amine hydrochloride	7.30	TPA	
Sodium bi carbonate	593.96	TPA	Sodium bi carbonate	494.47	TPA	
Guar gum	28.15	TPA	Guar gum	22.52	TPA	
Benzaldehyde	0	TPA	Benzaldehyde	7.04	TPA	
Magnesium sulphate	39.91	TPA	Magnesium sulphate	29.57	TPA	
Aniline	0	TPA	Aniline	12.94	TPA	
Tris (dibenzylidene acetone) dipalladium	0	TPA	Tris (dibenzylidene acetone) dipalladium	0.34	TPA	
Sulfuric acid	0	TPA	Sulfuric acid	3.96	TPA	
Sodium carbonate	66.43	TPA	Sodium carbonate	55.36	TPA	
Trimethyl orthobutyrate	29.14	TPA	Trimethyl orthobutyrate	22.41	TPA	
Xylane	88.83	TPA	Xylane	68.33	TPA	
HCl	439.93	TPA	HCl	315.95	TPA	
2-Methyl THF	714.84	TPA	2-Methyl THF	549.88	TPA	
Methyl amine	0	TPA	Methyl amine	3.98	TPA	
R-BINAP	0	TPA	R-BINAP	0.58	TPA	
2-Aminohexanoic acid	11.08	TPA	2-Aminohexanoic acid	8.53	TPA	
Sodium methoxide 30% Solution in Methanol	27.06	TPA	Sodium methoxide 30% Solution in Methanol	22.55	TPA	
Potassium phosphate tribasic	17.61	TPA	Potassium phosphate tribasic	12.15	TPA	
(S)-(1-methylpyrrolidin-2-yl) methanol	0	TPA	(S)-(1-methylpyrrolidin-2-yl) methanol	1.56	TPA	
TMSCl	23.00	TPA	TMSCl	17.69	TPA	
Sodium chloride	382.18	TPA	Sodium chloride	318.48	TPA	
Ethyl acetate	5941.05	TPA	Ethyl acetate	4570.04	TPA	
Silabond thiol	4.27	TPA	Silabond thiol	2.95	TPA	
2-Amino-3-(2-oxo-pyrrolidin-3-yl)-propionamide hydrochloride	0	TPA	2-Amino-3-(2-oxo-pyrrolidin-3-yl)-propionamide hydrochloride	5.58	TPA	
n-Butanol	12.72	TPA	n-Butanol	10.61	TPA	
N,N-DIPEA	0	TPA	N,N-DIPEA	6.38	TPA	
Diphenyl phosphite	18.44	TPA	Diphenyl phosphite	23.97	TPA	
EDCI	0	TPA	EDCI	6.91	TPA	
Dodecanal	17.88	TPA	Dodecanal	13.75	TPA	
Di isopropyl ether	72.35	TPA	Di isopropyl ether	60.29	TPA	
Thionyl chloride	125.18	TPA	Thionyl chloride	96.29	TPA	
Cyclobutane 1,2-dicarboxylic acid	0	TPA	Cyclobutane 1,2-dicarboxylic acid	6.99	TPA	
4-Bromo-2-fluorobiphenyl	46.50	TPA	4-Bromo-2-fluorobiphenyl	35.77	TPA	

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
POB	11.63	TPA	POB	8.02	TPA	
2,6-Lutidine	13.21	TPA	2,6-Lutidine	10.16	TPA	
6,6-Dimethyl-3-aza-bicyclo[3.1.0]hexane-2-carboxylic acid methyl ester	9.78	TPA	6,6-Dimethyl-3-aza-bicyclo[3.1.0]hexane-2-carboxylic acid methyl ester	7.52	TPA	
L-Valine Methyl ester .HCl	45.17	TPA	L-Valine Methyl ester .HCl	33.46	TPA	
Hydrochloric acid	566.12	TPA	Hydrochloric acid	452.89	TPA	
Sodium hypochloride	557.45	TPA	Sodium hypochloride	464.54	TPA	
TMSOTF	46.36	TPA	TMSOTF	35.67	TPA	
TMS chloride	23.55	TPA	TMS chloride	18.12	TPA	
Potassium Iodide	0	TPA	Potassium Iodide	0.17	TPA	
Triphenylphosphine	0	TPA	Triphenylphosphine	3.14	TPA	
Tri sodium citrate dihydrate	0	TPA	Tri sodium citrate dihydrate	1.85	TPA	
3-Hexyl-4-hydroxy-6-undecyl-tetrahydro-pyran-2-one	7.47	TPA	3-Hexyl-4-hydroxy-6-undecyl-tetrahydro-pyran-2-one	5.75	TPA	
DIPA	0	TPA	DIPA	2.93	TPA	
GDL	6.09	TPA	GDL	4.88	TPA	
Uracil	0	TPA	Uracil	7.05	TPA	
PTSA	16.98	TPA	PTSA	11.72	TPA	
n-Butyl lithium (2.5M in Hexane)	53.50	TPA	n-Butyl lithium (2.5M in Hexane)	44.58	TPA	
POSA	16.51	TPA	POSA	11.39	TPA	
Bromobenzene	149.01	TPA	Bromobenzene	124.18	TPA	
Di-isopropyl azodicarboxylate	0	TPA	Di-isopropyl azodicarboxylate	2.42	TPA	
(S)-5-(hydroxymethyl)pyrrolidin-2-one	15.73	TPA	(S)-5-(hydroxymethyl)pyrrolidin-2-one	12.10	TPA	
Ethyl Isonipeotate HCl	16.37	TPA	Ethyl Isonipeotate HCl	13.10	TPA	
Sodium borohydride	2.22	TPA	Sodium borohydride	1.85	TPA	
Cupric carbonate	0.62	TPA	Cupric carbonate	0.52	TPA	
Diaminomaleonitrile	16.17	TPA	Diaminomaleonitrile	13.48	TPA	
MSA	0	TPA	MSA	0.69	TPA	
Methanol	3527.74	TPA	Methanol	2613.14	TPA	
TBHAS	0	TPA	TBHAS	2.38	TPA	
Pyridine	14.64	TPA	Pyridine	10.10	TPA	
Isopropyl acetate	542.88	TPA	Isopropyl acetate	402.13	TPA	
Silica gel	97.02	TPA	Silica gel	66.91	TPA	
Lactone	45.53	TPA	Lactone	33.73	TPA	
Benzyl bromide	0	TPA	Benzyl bromide	3.47	TPA	
Dimethyl sulfoxide	176.19	TPA	Dimethyl sulfoxide	135.53	TPA	
POA	11.69	TPA	POA	8.07	TPA	
n-Hexyl bromide	31.02	TPA	n-Hexyl bromide	25.85	TPA	
4-Methoxy phenylamine	8.02	TPA	4-Methoxy phenylamine	6.17	TPA	
Acetonitrile	3769.67	TPA	Acetonitrile	2899.74	TPA	
Hexane	579.36	TPA	Hexane	463.49	TPA	

List of raw materials envisaged under EC / CTO with CAS Number	Quantity permitted under EC/CTO	Unit	List of raw materials proposed under clause 7(ii)(b)	Quantity proposed under clause 7(ii)(b)	Unit	Remarks if any
Super hydride 1.0M in THF from sigma Aldrich	65.25	TPA	Super hydride 1.0M in THF from sigma Aldrich	54.38	TPA	
Ethanol	1346.25	TPA	Ethanol	1035.57	TPA	
Ammonium acetate	0	TPA	Ammonium acetate	4.73	TPA	
Acetone	715.40	TPA	Acetone	550.31	TPA	
Methyl chloroformat	40.05	TPA	Methyl chloroformat	29.67	TPA	
2-Fluoro aniline	0	TPA	2-Fluoro aniline	2.29	TPA	
Sulphuryl chloride	32.91	TPA	Sulphuryl chloride	27.42	TPA	
Copper powder	0.74	TPA	Copper powder	0.62	TPA	
Copper (I) Iodide	0	TPA	Copper (I) Iodide	3.10	TPA	
Bromine	0	TPA	Bromine	20.62	TPA	
TMSI	0	TPA	TMSI	1.83	TPA	
4-Nitro phenol	0	TPA	4-Nitro phenol	6.28	TPA	
N, N-Dimethyl formamide dimethyl acetal	14.52	TPA	N, N-Dimethyl formamide dimethyl acetal	12.10	TPA	
Dimethoxy ethane	58.86	TPA	Dimethoxy ethane	45.28	TPA	
Sodium thiosulphate	0	TPA	Sodium thiosulphate	0.83	TPA	
3,4-Dihydro-2H-pyran	0	TPA	3,4-Dihydro-2H-pyran	2.7	TPA	
2-Cyanomethyl-piperazine-1-carboxylic acid benzyl ester fumaric acid	0	TPA	2-Cyanomethyl-piperazine-1-carboxylic acid benzyl ester fumaric acid	3.94	TPA	
n-Butyl iodide	14.75	TPA	n-Butyl iodide	12.29	TPA	
Celite	132.41	TPA	Celite	94.58	TPA	
Myristic acid	1.01	TPA	Myristic acid	0.84	TPA	
Trifluoroacetic anhydride	42.34	TPA	Trifluoroacetic anhydride	32.57	TPA	
2-Hydroxy pyridine-N-oxide	5.18	TPA	2-Hydroxy pyridine-N-oxide	3.98	TPA	
2N Hydrochloric acid in Methanol	38.04	TPA	2N Hydrochloric acid in Methanol	29.26	TPA	
<b>2.1.</b> Approval for additional water consumption if applicable			No			

### 3.Details of Effluent Generation

#### 3.1.Quantity

Propose	Quantity of existing effluent generati on in KLD (as per EC/CTO)	Quantity of effluent generation after the proposed change in product or raw material mix in KLD	Mode of Disposal Ultimate Receiving Body
Other	1.0	5.0	(From QC) Low TDS effluent - BTP of 230 KLD
Process + APCM	35.0	34.3	High TDS effluent - Stripper, MEE & ATFD of 93 KLD.

Propose	Quantity of existing effluent generati on in KLD (as per EC/CTO)	Quantity of effluent generation after the proposed change in product or raw material mix in KLD	Mode of Disposal Ultimate Receiving Body
Total Industrial	161.20	160.30	High TDS effluent - Stripper, MEE & ATFD of 93 KLD and Low TDS effluent - BTP of 230 KLD
Other	0.0	32.0	Softener Reject (Low TDS effluent - BTP of 230 KLD)
Domestic	15.0	15.0	Sewage Treatment Plant - 40 KLD
Boiler	48.2	30.0	Low TDS effluent - BTP of 230 KLD
Washing	0.00	4.00	Low TDS effluent - BTP of 230 KLD
Cooling	77.0	55.0	Low TDS effluent - BTP of 230 KLD

### 3.2. Quality

Composition as per the EC/CTO	Concentration as per EC/CTO in (mg/L)	Composition after proposed change in product or raw material mix	Concentration after proposed change in product or raw material mix in (mg/L)	Remarks, if any
COD	50	COD	50	Discharge standards for treated sewage
TSS	20	TSS	20	Discharge standards for treated sewage
N-TOTAL	10	N-TOTAL	10	Discharge standards for treated sewage
NH4-N	5	NH4-N	5	Discharge standards for treated sewage
BOD	10	BOD	10	Discharge standards for treated sewage
FECAL COLIFORM (MPN/100 ML)	100	FECAL COLIFORM (MPN/100 ML)	100	Discharge standards for treated sewage

### 3.3. Total load in respect of Effluent

Total load in respect of Effluent as per the EC/CTO	Treatment facility existing (with capacity in KLD)	Total load in respect of Effluent after proposed change in product or raw material mix in KLD	Treatment facility proposed with capacity after proposed change in product or raw material mix in KLD	Remarks if any
11.46	270	11.46	270	

### 3.4.Details of effluent management

3.4.1. Whether Segregation of Concentrated stream and its disposal is proposed?	Yes
3.4.1.1. Brief report on Segregation of Concentrated stream and its disposal	Segregation of Concentrated stream and its disposal.pdf Preview
7.4.2. Whether Reduction / Recycle / Reuse of effluent are proposed?	Yes
7.4.2.1. Brief report on details of Reduction / Recycle / Reuse of effluent	Details of Reduction.pdf Preview
7.4.3. Whether any additional Effluent Treatment Facilities Provided?	No
7.4.4. Whether is there any proposal for up-gradation of ETP?	No
7.4.5. Whether the unit is having Membership of Common Effluent Conveyance / Disposal Facility?	No
7.4.6. Whether it is Proposed to achieve zero discharge?	Yes
7.4.6.1. Brief report on Proposal to achieve zero discharge with technical justification and feasibility	Effluent Treatment Facilities Provided.pdf Preview
7.4.7. Whether Project has Membership of CETP?	No

## Emission Generation

### 1.Details of Emission Generation

#### 1.1.

#### Quantity

#### (i) From Stacks

Point Source (s)	Height of stack (m)	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
DG Set - 500 kVA	30	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )
Process stacks	3	35	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	35	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	35	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	35	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )

Point Source (s)	Height of stack (m)	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
DG Set - 2000 kVA	30	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )
Boiler - 5 TPH	30	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )
Boiler - 2.5 TPH	30	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	600	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )

**(ii) From Fugitive sources**

Fugitive Sources	Height of discharge in m	As per EC / CTO			After the proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
Nil	0	0	Others	0	Others	0	Others	0	Others

**(iii) From other sources**

Other Source(s)	Height of discharge in m	As per EC / CTO			After proposed change in product or raw material mix				
		Emission rate	Unit	Total emission	Unit	Emission rate	Unit	Total emission	Unit
Nil	0	0		0	Kg Per Day	0	Kg Per Day	0	Kg Per Day

**1.2.**

**Quality**

Stack attached to	Stack Height in Meter	APCM	Parameter	Concentration			
				As per EC / CTO	Unit	After the proposed change in product or raw material mix	Unit
DG Set - 2000 kVA	30	Acoustic Enclosure	PM	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )	75	Miligram per Normal cubic meter (mg/Nm <sup>3</sup> )

Stack attached to	Stack Height in Meter	APCM	Parameter	Concentration			
				As per EC / CTO	Unit	After the proposed change in product or raw material mix	Unit
Boiler - 2.5 TPH	30	Bag Filter	SO2	600	Miligram per Normal cubic meter (mg/Nm3)	600	Miligram per Normal cubic meter (mg/Nm3)
Boiler - 5 TPH	30	Nil	NOx	300	Miligram per Normal cubic meter (mg/Nm3)	300	Miligram per Normal cubic meter (mg/Nm3)
DG Set - 2000 kVA	30	Acoustic Enclosure	SO2	100	Miligram per Normal cubic meter (mg/Nm3)	100	Miligram per Normal cubic meter (mg/Nm3)
DG Set - 500 kVA	30	Acoustic Enclosure	Not Specified	0	Others	0	Others
Boiler - 2.5 TPH	30	Bag Filter	NOx	300	Miligram per Normal cubic meter (mg/Nm3)	300	Miligram per Normal cubic meter (mg/Nm3)
Process stacks - attached to 11 reactors	3	Scrubbers	Acid Mist	35	Miligram per Normal cubic meter (mg/Nm3)	35	Miligram per Normal cubic meter (mg/Nm3)
DG Set - 2000 kVA	30	Acoustic Enclosure	NOx	710	Part per Million (PPM)	710	Part per Million (PPM)
DG Set - 2000 kVA	30	Acoustic Enclosure	CO	150	Miligram per Normal cubic meter (mg/Nm3)	150	Miligram per Normal cubic meter (mg/Nm3)
Boiler - 5 TPH	30	Nil	SO2	600	Miligram per Normal cubic meter (mg/Nm3)	600	Miligram per Normal cubic meter (mg/Nm3)

2.

### Total load in respect of Emission

Total load in respect of emission as per the EC / CTO	Unit	APCM existing with capacity	Unit	Total load in respect of emission after proposed change in product or raw material mix	Unit	APCM proposed with capacity after proposed change in product or raw material mix	Unit	Remarks if any
569.48	Kg Per Day	600	Kg Per Day	569.48	Kg Per Day	600	Kg Per Day	No additional APCM is proposed

### 3.Details of emission management

3.1. Whether there is any Proposal for switching over to cleaner fuel?	Yes
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<b>3.1.1.</b> Brief report on Proposal for switching over to cleaner fuel, if any (with time bound program)	Proposal for switching over to cleaner fuel.pdf Preview
<b>3.2.</b> Whether there is any Proposal for the up gradation of existing APCM? (with the time-bound program)	No
<b>3.3.</b> Whether there is Proposal for the installation of new APCM? (with time-bound program)	No

## 1. Hazardous Waste Generation

### 1.1.

#### Quantity and type of waste

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
Spent carbon	28.3	5	Tons per Annum (TPA)	3.7	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB Authorized incinerator /coprocessing in cement kiln.
Waste gypsum wallboard or plasterboard arising from the demolition of buildings and Broken Concrete	Schedule- III (B-2040)	0	Tons per Annum (TPA)	240	Tons per Annum (TPA)	Construction activities	In leak proof containers/drums in Hazardous Waste storage room	Stored in secured manner & disposed to KSPCB authorized pre-processors.
Used or spent oil	5.1	3	Tons per Annum (TPA)	3	Tons per Annum (TPA)	DG sets, machineries, utilities etc.	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB authorized re-processor/recycler.
Bottom Ash	--	0	Tons	3	Tons	From the	Secured	Send to brick

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
			per Annum (TPA)		per Annum (TPA)	preventive maintenance of boilers	Manner	manufacturers.
Metal and metal-alloy wastes in metallic, non-dispersible form: - Thorium scrap, - Rare earths scrap	Schedule I (B-1010)	288	Tons per Annum (TPA)	288	Tons per Annum (TPA)	Storage Area	In leak proof containers/drums in Hazardous Waste storage room	Handed over to the KSPCB authorized recycler.
Glass wastes in non-dispersible form: - Cullet and other waste and scrap of glass except for glass from cathode-ray tubes and other activated glasses	Schedule III (B 2020)	28.8	Tons per Annum (TPA)	28.8	Tons per Annum (TPA)	Storage, Production Area	In leak proof containers/drums in Hazardous Waste storage room	Handed over to the KSPCB authorized recycler.
Spent Catalyst	28.2	12	Tons per Annum (TPA)	11.4	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB Authorized recycler.
Spent Solvent	28.6	18050	Tons per Annum (TPA)	5057	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB Authorized recycler.
Untreated cork and wood waste: - Wood waste and scrap, whether agglomerated in logs, briquettes, pellets or similar forms, - Cork waste: crushed, granulated or ground cork	Schedule-III(B-3050)	144	Tons per Annum (TPA)	144	Tons per Annum (TPA)	-	In leak proof containers/drums in Hazardous Waste storage room	Handed over to the KSPCB authorized recycler.
Date-expired	28.5	0	Tons	5	Tons	Manufacturing	In leak	Handed over to

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
products			per Annum (TPA)		per Annum (TPA)	and R & D facility	proof containers/ drums in Hazardous Waste storage room	KSPCB Authorized Incinerator.
Wastes residues containing oil	5.2	1.75	Tons per Annum (TPA)	1.75	Tons per Annum (TPA)	DG sets, machineries, utilities etc.	In leak proof containers/ drums in Hazardous Waste storage room	Handed over to KSPCB Authorized incinerator /coprocessing in cement kiln.
Process Residue and wastes	28.1	265	Tons per Annum (TPA)	131	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/ drums in Hazardous Waste storage room	Handed over to KSPCB Authorized incinerator /coprocessing in cement kiln.
Used PPE	--	0	Tons per Annum (TPA)	120	Tons per Annum (TPA)	EHS Department	Secured Manner	Stored in secured manner & disposed to TSDF.
Distillation residue	20.3	0	Tons per Annum (TPA)	132	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/ drums in Hazardous Waste storage room	Handed over to KSPCB Authorized incinerator /coprocessing in cement kiln.
Wastes containing principally organic constituents, which may contain metals and inorganic materials	Schedule-III(B3)	72	Tons per Annum (TPA)	72	Tons per Annum (TPA)	Storage, Production Area	In leak proof containers/ drums in Hazardous Waste storage room	Handed over to the KSPCB authorized recycler.
MEE Salts	35.3	940	Tons per Annum (TPA)	932	Tons per Annum (TPA)	Multiple Effect Evaporator	In leak proof containers/ drums in Hazardous	Handed over to KSPCB Authorized TSDF.

Type of Waste	Category (As per Schedule under Hazardous & Other Waste Management Rules, 2016)	Generation per Year						
		Existing as per the EC / CTO	Unit	After Change in Product Mix	Unit	Source of Generation	Mode of Storage	Mode of Treatment & Disposal method
							Waste storage room	
Chemical sludge from wastewater treatment	35.3	2700	Tons per Annum (TPA)	255	Tons per Annum (TPA)	Effluent Treatment Plant	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB Authorized recycler.
Discarded containers/liners	33.1	14000	Tons per Annum (TPA)	14000	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB Authorized recycler.
Off specification products	28.4	0	Tons per Annum (TPA)	20	Tons per Annum (TPA)	Manufacturing and R & D facility	In leak proof containers/drums in Hazardous Waste storage room	Handed over to KSPCB Authorized Incinerator.

## 1.2.

### Details of Waste management

<b>1.2.1.</b> Whether Proposal for reduction / recovery / reuse / recycle / sale of waste (with technical details) is proposed?	Yes
<b>1.2.1.1.</b> Brief report on Proposal for reduction / recovery / reuse / recycle / sale of waste, if any'	Proposal for reduction.pdf Preview
<b>1.2.2.</b> Whether Project has Membership of Common Secured Landfill Site?	Yes

1.2.2.1. Brief report on Membership of Common Secured Landfill Site (if any)	TSDf.pdf Preview
1.2.3. Whether Project has Membership of Common hazardous waste incineration facility	Yes
1.2.3.1. Brief report on Membership of Common hazardous waste incineration facility (if any)	Agreement E-nano.pdf Preview

**2. No Increase in Pollution Load certificates from the authorized environmental auditor and countersigned by Project Proponent**

2.1. Authorized environmental auditor/Reputed Institution Empaneled by the SPCB/CPCB/MoEFCC	Authorized Environmental Auditors
2.2. Upload the Certificate of 'No Increase in Pollution' Load.	EMS & IR.pdf Preview

**3. Online Continuous effluent/emission Monitoring System**

Quantity

							Date of connection to the servers of	
Attribute	Constituents	Date of installation	Details calibration of OCEMS	No. of time data exceeds the limit	Value Exceeded	Status of OCEMS functioning	CPCB	SPCB
Effluents	Flow	18/03/2020	Calibrated	0	0	Yes	01/10/2021	01/10/2021
Emissions	SO2 & NOx	18/03/2020	Calibrated	0	0	Yes	02/09/2021	02/09/2021

**1. Additional Information**

S. No.	Document Name	Remark	Document
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**1. Undertaking**

I hereby give undertaking that the data and information given in the application and enclosures are true to be best of my knowledge and belief and I am aware that if any part of the data and information is found to be false or misleading at any stage, the project will be rejected and clearance given if any to the project will be revoked at our risk and cost. In addition to the above, I hereby give undertaking that no activity/construction/expansion has been taken up

<b>1.1.</b> Name	Shanmukha Rao
<b>1.2.</b> Designation	Associate General Manager EHS
<b>1.3.</b> Company	M/S. SYNGENE INTERNATIONAL LIMITED
<b>1.4.</b> Address	MSEZ, Kottara, Mangaluru, Karnataka - 574142
<b>1.5.</b> Date	10-10-2023

