BRIEF SUMMARY OF THE PROJECT

<table>
<tr><td>Name and Address of the industry</td><td>M/s. Kopran Research Laboratories Ltd.
Plot No. K-4/4, MIDC Mahad, Taluka - Mahad, District - Raigad, Maharashtra - 402302.</td></tr>
<tr><td>Schedule of project as per EIA Notification 2006</td><td>5(f)-API</td></tr>
<tr><td>Category of Project</td><td>‘B2’ Category vide MoEF & CC Notification S.O.1223 (E) dated. 27th March, 2020</td></tr>
<tr><td>Earlier Environment Clearance</td><td>Vide F. No. J-11012/9/95-IA.(II(I) dated 25th October 1996</td></tr>
<tr><td>Total plot area</td><td>Detailed land use breakup is as under.
<table>
<tr><th>Description</th><th>Total area in sq. m</th><th>Percentage (%)</th></tr>
<tr><td>Total plot area</td><td>36000</td><td>100</td></tr>
<tr><td>Built-up area (Ground Coverage)</td><td>9425.55</td><td>26.18</td></tr>
<tr><td>Area under roads</td><td>5473.39</td><td>15.20</td></tr>
<tr><td>Area under parking</td><td>1201.66</td><td>3.34</td></tr>
<tr><td>Greenbelt</td><td>11983.21</td><td>33.29</td></tr>
<tr><td>Area under open space</td><td>7915.98</td><td>21.99</td></tr>
<tr><td>Explosive area</td><td>1194.01</td><td>3.32</td></tr>
</table></td></tr>
<tr><td>Production details</td><td>Existing manufacturing capacity is 474 MT/Annum as per Consent order no. Format 1.0/BO/AST/UAN No. 00000071587/R/CC-1906001351 dated 26.06.2019 valid till 31.05.2024
The proposed expansion will be carried out by deleting one of the existing products (Oncology @ 6 MT/Annum) and adding some new API products the details of which are as under. The total manufacturing capacity after the proposed expansion will be 924 MT/Annum
<table>
<tr><th rowspan="2">Sr No.</th><th rowspan="2">Name of products</th><th colspan="4">Quantity of products MT/Annum</th><th rowspan="2">End use</th></tr>
<tr><th>Existing</th><th>Proposed deletion</th><th>Proposed Addition</th><th>Total</th></tr>
<tr><td>1</td><td colspan="6">Cardiovascular</td></tr>
<tr><td rowspan="5">Production details</td><td>Atenolol</td><td rowspan="3">300</td><td>0</td><td>60</td><td rowspan="5">420</td><td rowspan="5">Hypertensive drugs</td></tr>
<tr><td>Amlodipine</td><td>0</td><td>30</td></tr>
<tr><td>Carvedilol</td><td>0</td><td>0</td></tr>
<tr><td>Metoprolol succinate</td><td rowspan="2">0</td><td>0</td><td>15</td></tr>
<tr><td>Metoprolol tartate</td><td>0</td><td>15</td></tr>
<tr><td>2</td><td colspan="6">Macrolide</td></tr>
</table></td></tr>
</table>

	Azithromycin	30	0	55	90	Antibiotic drugs
	Roxithromycin		0	5		
3	**Granules**					
	Omeprazole	6	0	14	60	Anti-ulcerent Anti-depressant drugs
	Lansoprazole		0	0		NA
	Clarithromycin	0	0	30		Antibiotic
	Esomeprazole magnesium		0	4		Anti-ulcerent
	Venlafaxine		0	3		Anti-depressant drugs
	Duloxetine		0	3		
4	**Antibiotics Cephalosporins**					
	Ceftriaxone	96	0	20	180	Antibiotic drugs
	Cefotaxime		0	30		
	Cefepime		0	34		
5	**Penems -**					
	Meropenem,	6	0	30	60	Antibiotic drugs
	Doripenem	0	0	4		
	Imipenem		0	4		
	Ertapenem		0	4		
	Feropenem		0	6		
	Biapenem		0	2		
	Tebipenem		0	4		
6	**AntiEpilepsy**					
	Pregabalin	30	0	30	60	Anti-Epilepsy drugs
7	**Anti-Cancer**					
	Oncology	6	6	0	0	To be deleted
8	**Anti Biotic**					
	Lymecycline,	0	0	3	36	Antibiotic drugs
	Nitroxoline	0	0	33		
9	**Platelet aggregation inhibites-**					
	Ticagrelor	0	0	6	6	Platelet aggregation inhibites-
10	**Anti Dibetics**					
	Canagliflozi,	0	0	2	6	Anti-diabetic drugs
	Dapagliflozin	0	0	2		
	Empagliflozin	0	0	2		

11	**Anti-Coagulant**					
	Rivaroxaban	0	0	3	6	Anti-Coagulant
	Apixaban	0	0	3		
Total		**474**	**6**	**456**	**924**	

Water requirement of the project

Source of water is MIDC, Mahad

Sr. No.	Particulars	Consumption in KLD		
		Existing	Proposed	Total
1.	Domestic	40	05	45
2.	Process	130	80	210
3.	Boiler	24	48	72
4.	Cooling tower	131	31	162
5.	Scrubbing system	10	3	13
6.	Greenbelt	20	30	50
	TOTAL	**355**	**197**	**552**

Net Water requirement

Consumption			Recycle/reuse			Net Water Requirement		
Existing (KLD)	Proposed (KLD)	Total (KLD)	Existing (KLD)	Proposed (KLD)	Total (KLD)	Existing (KLD)	Proposed (KLD)	Total (KLD)
355	**197**	**552**	**00**	**67**	**67**	**355**	**130**	**485**

Effluent generation

Total Effluent Generation **: 219 KLD**

Sr. No.	Particulars	Effluent in KLD		
		Existing	Proposed	Total
1.	Domestic	25	3	28
2.	Process	97	65	162
3.	Boiler	3	3	6
4.	Cooling tower	5	5	10
5.	Scrubbing system	10	3	13
6.	Greenbelt	0	0	0
	TOTAL	**140**	**79**	**219**

Effluent Treatment

The total quantity of effluent generated from existing facility is 140 KLD. (Trade effluent 115 KLD and Domestic effluent 25 KLD). The trade effluent of **115 KLD**, is segregated into low strength stream (107KLD) and high strength stream (8 KLD). The LTDS effluent of 107 KLD is treated based on conventional biological treatment, and domestic effluent of **25 KLD** is fed to Bioreactor after primary treatment combined treated effluent is sent to CETP, Mahad for further treatment and disposal. The HTDS effluent (8 KLD) shall be treated based on ATFD system and the sludge (0.4 MT/D) is sent to CHWTSDF, Taloja. The same practice shall be continued even after the proposed expansion.

The total quantity of effluent generated due to the proposed expansion activity will be 79 KLD (76 KLD Trade effluent and 3 KLD Domestic effluent) and is treated based on ZLD principles. The effluent is segregated into low strength stream (50 KLD) and high strength stream (26 KLD). The LTDS effluent of 50 KLD is treated based on Primary, Secondary and Tertiary Treatment and HTDS effluent stream

<table>
<tr><td></td><td>(26 KLD is treated in MEE/ATFD System, MEE Condensates are recycled back to process/utilities and MEE Salts are sent to CHWTSDF, Taloja for disposal. The total wastewater i.e. recovered from the ZLD System will be 67 KLD.</td></tr>
<tr><td>ETP Details</td><td>Existing ETP Capacity 150 KLD
Proposed ETP Capacity: 80 KLD (ZLD system)
LTDS trade Effluent: 50 KLD
HTDS trade Effluent: 26 KLD</td></tr>
<tr><td>Power Requirement</td><td><table><tr><td>Connected load
1600 KW</td><td>Proposed load:
400 KW</td><td>Total load
2000 KW</td></tr></table>Source: MSEDCL</td></tr>
<tr><td>Boiler details</td><td><table><tr><td>Existing: 4.0 TPH.
Briquette fired</td><td>Proposed: 5.0 TPH
Briquette fired
4.5 TPH Furnace oil Fired standby</td><td>Existing: 4.0 TPH.
Briquette fired+ 5.0 TPH Briquette fired
4.5 TPH Furnace Oil Fired standby</td></tr></table></td></tr>
<tr><td>DG Set Capacity</td><td><table><tr><td>Existing: 750 KVA</td><td>Proposed: 1750 KVA</td><td>Total: 750 KVA + 1750 KVA</td></tr></table></td></tr>
<tr><td>Fuel Requirement</td><td><table><tr><th>Fuel</th><th>Existing</th><th>Proposed</th><th>Total</th></tr><tr><td>HSD</td><td>90 lit/hr</td><td>210 lit/hr</td><td>300 lit/hr</td></tr><tr><td>Briquettes</td><td>10 TPD</td><td>13 TPD</td><td>23 TPD</td></tr><tr><td>Furnace Oil</td><td>0</td><td>250 lit/hr</td><td>250 lit/hr</td></tr></table></td></tr>
<tr><td>Stack Details</td><td><table><tr><th>Stack no</th><th>Existing</th><th>Proposed</th></tr><tr><td>01</td><td>Boiler stack of 32.0 Mtr.</td><td>Common Stack for additional Boiler</td></tr><tr><td>02</td><td>Stack of 6 m Powder process area -Atenolol</td><td>Common Stack for additional Scrubber</td></tr><tr><td>03</td><td>Stack of 6 m Powder process area Macrolide dust collector</td><td>--</td></tr><tr><td>04</td><td>H_2S scrubber stack attached to Reactor No.101.</td><td>--</td></tr><tr><td>05</td><td>HCl scrubber stack attached to Reactor No.907</td><td>--</td></tr><tr><td>06</td><td>6.0 m above roof stack of 750 KVA D.G.</td><td>Common stack of 30 m to be provided for old 750 KVA & new 1750 KVA DG set.</td></tr></table></td></tr>
<tr><td>Scrubber</td><td>Existing: 3 Nos of Acid/ Alkali Scrubbers and Additional 1 No. of 1000 CFM will be installed to mitigate process emissions.</td></tr>
<tr><td>Manpower</td><td><table><tr><th>Manpower</th><th>Skilled</th><th>Unskilled</th><th>Total</th></tr></table></td></tr>
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<tr><td></td><td>
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<tr><td>Existing</td><td>216</td><td>137</td><td>353</td></tr>
<tr><td>Proposed</td><td>50</td><td>25</td><td>75</td></tr>
<tr><td>Total</td><td>266</td><td>162</td><td>428</td></tr>
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</td></tr>
<tr><td>Rainwater Harvesting Potential</td><td>
<table>
<tr><th>Sr. no</th><th>Building name</th><th>Roof area (m^2)</th><th>$V_{(Annual)}$ (m^3)</th></tr>
<tr><td>1</td><td>Plant Area-B</td><td>588.00</td><td>1817.16</td></tr>
<tr><td>2</td><td>Warehouse A&B</td><td>696.60</td><td>2152.77</td></tr>
<tr><td></td><td>Admin Block</td><td>149.57</td><td>462.23</td></tr>
<tr><td colspan="2">Total</td><td>1434.17</td><td>7997.5</td></tr>
</table>
</td></tr>
<tr><td>EMP Cost</td><td>
<table>
<tr><th>Particulars</th><th>Existing</th><th>Proposed</th></tr>
<tr><td>Capital Cost Cr.</td><td>4.9</td><td>2.5</td></tr>
<tr><td>Recurring Cost Cr.</td><td>1.5</td><td>0.8</td></tr>
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</td></tr>
<tr><td>Project Cost</td><td>9.95 Crores</td></tr>
<tr><td>CER Cost</td><td>10 lakhs (1% Of Proposed Project Cost)</td></tr>
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