SALIENT FEATURES OF THE PROPOSED PROJECT

1. Title of project: **M/s. Gujarat Fluorochemicals Limited** proposes to increase in production capacity of a few products, addition of new products and installation of incinerator to their EXISTING refrigerant gas & fluorospecialty chemicals manufacturing plant located at Survey No. 16/3, 26, 27, Village: Ranjitnagar, Taluka: Ghoghamba, District: Panchmahal, Gujarat.

2. Land acquired: Proposed expansion will be carried out within the existing premises of 2,05,803 m^2 area.

3. Cost of the project: Rs. 100 Crores

4. Existing facilities: Reaction vessels, Cooling tower, Condenser, Filtration, MS jacketed vessel, A/C room under controlled conditions, Dryer, Steam Boiler, D. G. set, Dust Collector, Multiple Effect Evaporator, Chemical tanks, Collection tanks, Ventilation system, Loading Unloading system, Dispatch facility.

5. Production capacity:

Sr. No.	Name of Product	Production Capacity (MT/Annum)		
		Existing	Additional	Total
1	Monochloro Difluoro Methane (HCFC-22)	18,000	0	18,000
2	Difluoromethane (HFC-32)	500	8,500	9,000
3	Ethyl difluoroacetate (EDFA)	600	600	1,200
4	Bromo Trifluoromethane (BTFM)	400	0	400
5	4-(Heptafluoroisopropyl)-2-methyl aniline/ 2- Bromo Heptafluoro Propane*	400	200	600
6	2,5-Dichloro-4-Hexafluoropropoxy aniline	300	0	300
7	Ethyl difluoroaceto acetate (EDFAA)	600	0	600
8	Chloro difluoro ethane (R-142)	50	450	500
9	Ethyl tetrafluoroethyl ether (ETFEE)	150	4,850	5,000
10	Penta Fluoro Phenol	120	380	500
11	4-Chloro-2-Trifluoro Acetyl Aniline	1,200	300	1,500
12	Difluoro acetic acid	0	400	400
13	Difluoro acetone	0	500	500
14	Difluoro ethyl amine	0	500	500
15	Penta fluoro benzoic acid	0	500	500

Sr. No.	Name of Product	Production Capacity (MT/Annum)		
		Existing	Additional	Total
16	Tetra fluoro benzyl alcohol	0	500	500
17	Trifluoroacetic acid (TFA) & its derivatives	0	5,000	5,000
18	2,6-Dichloro-4-trifluoromethyl Aniline (DCTFMA)	0	500	500
19	2-Bromo-5-Fluorobenzotrifluoride	0	500	500
20	2,3-Dichloro-5-Trifluoromethyl Pyridine	0	500	500
21	Difluoromethane sulfonyl chloride (DFMSC)	0	300	300
	TOTAL	**22,320**	**24,480**	**46,800**

The manufacture of above stated products would fall under 5(f) of the schedule of the EIA Notification - 2006 and therefore this application has been made for obtaining Environmental Clearance.

6. Air pollution control measures:

- **Flue Gas Stacks**

Sr. No.	Stack attached to	Air Pollution Control Measures
❖ **Existing**		
1.	FBC Boiler	Multicyclone Dust Collector followed by Bag Filter
	Boiler (standby)	
2.	Waste heat recovery boiler attached to diesel power generating set	Not applicable, as Natural Gas is used as a fuel.
3.	Waste heat recovery boiler attached to RLNG power generating set-A	
4.	Waste heat recovery boiler attached to RLNG power generating set-B	
5.	Waste heat recovery boiler attached to RLNG power generating set-C	
6	Rotary Kiln	
❖ **Proposed**		
Nil, because existing boiler will be used for the proposed expansion activity.		

- **Process Gas Stacks**

Sr. No.	Stack attached to	Air Pollution Control Measures
❖ **Existing**		
1.	Tail gas scrubber connected to AHF	Wet Alkali Scrubber
2.	Central Scrubber connected to safety valves of HF tanks	Wet Alkali Scrubber
3.	Gypsum Scrubber connected to AHF	Water Scrubber
4.	Spar Dryer connected to AHF	Bag Filter
5.	Spar Dryer with Silo connected to AHF	Bag Filter
6.	Thermal Oxidizer	Water + Caustic Scrubber
7.	Spray Dryer for ETP	Cyclone Separator + Water Scrubber
8.	Gypsum Handling system connected to AHF	Bag Filter
9.	HCl Scrubber Vent*	Water Scrubber + Caustic Scrubber
10.	Spray Dryer for KF connected to EDFA & RFA	Cyclone Separator + Water Scrubber
11.	EDFA Plant	Water Scrubber + Caustic Scrubber
*Common stack for Chloro difluoro ethane plant & 4-Chloro-2-Trifluoro Acetyl Aniline plant		
❖ **Proposed**		
1.	Central Scrubber for MPP	Water Scrubber + Caustic Scrubber
2.	Scrubber connected to MPP	Water Scrubber + Caustic Scrubber
3.	Common incinerator	Water Scrubber + Caustic Scrubber

7. Water requirement: 775 KL/day

8. Waste water treatment:

- The final treated effluent from effluent treatment plant will be evaporated in a psychometric as well as single/multiple evaporator system followed by a Spray Dryer. The condensate will be recycled for making scrubbing solution.

9. Solid / hazardous waste management and disposal:

- ETP sludge will be collected, stored and disposed to TSDF site of M/s. NECL, Nandesari.
- Oily cotton waste will be collected, stored and sent for Incineration at M/s. NECL, Nandesari.
- Spent catalyst, Dessicants (alumina/ molecular sieve), Resin and Discarded asbestos roof sheet will be collected, stored and disposed to TSDF site of M/s. NECL, Nandesari.
- Organic residue will be collected, stored and sent for Incineration in own incinerator or at common incineration facility.
- Used oil will be collected, stored and sold to selling to registered re-refiners.
- Discarded containers will be collected, stored and sold to authorized recyclers.

10. Green belt: Approximately 87,545 m^2