Minutes of the 276th meeting of the State Level Expert Appraisal Committee held on 02/02/2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar.

The 276th meeting of the State Level Expert Appraisal Committee (SEAC) was held on 2nd February, 2016 at Committee Room, Gujarat Pollution Control Board, Gandhinagar. Following members attended the meeting:

1. Shri T. P. Singh, Chairman, SEAC.
2. Shri V. C. Soni, Vice Chairman, SEAC.
3. Dr. V. K. Jain, Member, SEAC.
4. Shri R. J. Shah, Member, SEAC.
5. Shri V.N.Patel, Member, SEAC.
6. Shri Hardik Shah, Secretary, SEAC.

The agenda of TOR/Scoping cases and appraisal cases was taken up. Five (5) cases of TOR/Scoping and Twenty Six (26) appraisal cases were taken up. The applicants made presentations on the activities to be carried out along with other details furnished in the Form-1 /PFR, EIA report and other reports.

01	Chandan Synthetics and Polymers	Plot No:615, Road no.06, GIDC- Sarigam, Ta.: Umargam, Dist.: Valsad	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Chandan Synthetics and Polymers (herein after Project Proponent – PP) has submitted Application vide their letter no. NIL dated 03/03/2015.
- This project was considered in the meeting of the SEAC held on 09/06/2015.
- During the meeting, project proponent has requested to consider the project as B2 category project. The request was considered by the committee looking to the low pollution potential in terms of air, water and location of the project in GIDC Sarigam and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/33294/2015 dated 26/11/2015.

Project / Activity Details:

The project proponent has applied for manufacturing of Synthetic Organic Chemicals as tabulated below:

Sr. no.	Name of the Products	Quantity (MT/Month)
1.	P. V. A. Emulsion	200
2.	Synthetic Adhesives	50
3.	Textiles Auxiliaries	50
	Total	300

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006. Total plot area is 711 sq. m & unit has proposed 200 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs.0.5 Crores. Total water consumption for proposed project will be 9.7 KL/day (2 KL for Domestic, 1 KL for Gardening, 5 KL for Process, 0.1 KL for Boiler , 0.1 KL for Cooling and 1.5 KL for washing). Industrial waste water generation will be 1.50 KL/day, which will be reused again in the process. Fresh water requirement will be 8.2 KL/day which will be sourced from GIDC water supply. As presented, water will be used for equipment and raw material drums & container washing and the generated wash water will be collected separately and this will be re-used in the manufacturing of products. Domestic waste water (1.5 KL/day) will be disposed off into soak pit system. It is proposed to install one small Boiler (0.1TPH). NG/CNG (1.5 SCM/day) will be used as fuel for Boiler. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be Discarded containers/Bags/Liners (300 no.s/Year) and used oil (25 ltrs/Year). Discarded containers will be either reused or returned back to raw material suppliers or sold to the authorized recyclers. Used oil will be sold only to the registered re-processors.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that there is no generation of industrial effluent from manufacturing process as well as ancillary operation. It was observed that waste water will be in the form of reactor wash water which will not come out of the reactor. Upon asking about feasibility for complete reuse, PP informed that washing waste water will be generated from PVA emulsion and Synthetic Adhesives and max. quantity per batch will be 250 lit. which contains 0.2 to 0.4 % of the product itself. This waste water will be directly utilized to the water requirement of next batch of the product. The wash water does not come out of the reactor after washing and remains in the reactor itself. However, they have proposed one temporary storage tank (cap. 250 Lit.) for storage of waste water in case of emergency. This temporary stored waste water will be recycled back in process when next batch is started. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

02	CLS Industries Pvt. Ltd.	S.No.89, Plot No.38,43-45, Meghpar Borichi, Anjar, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: CLS Industries Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.

- During presentation, PP informed that water requirement is 11 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32560/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	Proposed	Total
Existing products				
1	Core Veneer	325500 m^2	Nil	325500 m^2
2	Face Veneer	875500 m^2	Nil	875500 m^2
3	Marine Plywood	9125 No.s	Nil	9125 No.s
4	Block Boards	30415 No.s	Nil	30415 No.s
5	Flush Doors	5550 No.s	Nil	5550 No.s
Proposed products				
1	Phenol Formaldehyde Resin	Nil	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 10047.62 sq.m. Unit has proposed 600 sq. m area for green belt/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Meghpar Borichi is @ 2.82 km from the site. Total cost of the project will be Rs. 16 lacs. Total water consumption will be increased from 8.5 KL/day to 10.5 KL/day. Source of the water will be Road tankers. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (5 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 30 lac Kcal/hr. Briquettes of Bio Coal (100 Kg/hr or 1 MT/day) will be used as a fuel. Multi cyclone dust

collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (380 & 140 KVA each) are proposed. Diesel consumption in each DG set will be 50 Kg/hr. Discarded containers/Bags (3.5 MT/Yr), used oil (0.05 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

03	Vanshika Plywood Pvt. Ltd.	Plot No/S.No.56, Varsana, Anjar, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Vanshika Plywood Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 10 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32576/2015 dated 05/12/2015.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Block Board, Flush Door

&Veneer. Now unit has proposed to manufacture synthetic resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	Proposed	Total
Existing products				
1	Plywood, Block Board ,Flush Door &Veneer	950000 m^2	Nil	950000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door &Veneer. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 21347 sq. sq.m. Unit has proposed 1100 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Nandgam is @ 1.47 km (N) from the site. Total cost of the project will be Rs. 0.13 Crores. Total water consumption after proposed expansion will be 10 KL/daySource of the water will be Road tankers. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.40 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 15 lac Kcal/hr. Briquettes of Bio Coal (1 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (125 KVA) is proposed. Diesel consumption in each DG set will be 25 Lit. /hr. Discarded containers/Bags (1500 no.s/Yr), used oil (0.125 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Plywood, Block Board, Flush Door &Veneer and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional

water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

04	Oriental Plyboard Pvt. Ltd.	Plot No/S.No.4/1 & 4/2, Varsana, Anjar, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Oriental Plyboard Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 5.05 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32569/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	**Name of Product**	**Capacity per Month**		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door Veneer	20000 m^2	Nil	20000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea

Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board & Flush Door. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 22260 sq.m. Unit has proposed 1327 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Varsana is @ 1.31 km (SE) from the site. Total cost of the project will be Rs. 0.13 Crores.Total water consumption after proposed expansion will be 5.05 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.2 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 10 Lac Kcal/hr. Briquettes of Bio Coal (1 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (180 KVA) is proposed. Diesel consumption in each DG set will be 10 lit/hr. Discarded containers/Bags (3000 no.s/Yr), used oil (0.15 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

05	TSK Ply & Veneer Industries	S,.No.1184, Bhachau, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: TSK Ply & Veneer Industries (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.

- During presentation, PP informed that water requirement is 4.6 KL/day. Fuel requirement is 2 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32574/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood & Block Board and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	Proposed	Total
Existing products				
1	Plywood & Block Board	450000 m^2	Nil	450000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	75 MT	75 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood & Block Board. The project proponent has applied for manufacturing of Resins (75.00 MT/Month) within existing plot having area @ 9611 sq.m. Unit has proposed 1045 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Chopadva is @ 2.58 (W) km from the site. Total cost of the project will be Rs. 0.09 Crores Total water consumption after proposed expansion will be 4.6 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.1 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 10 Lac Kcal/hr. Briquettes of Bio Coal (2 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (82.5 KVA) is proposed. Diesel consumption in each DG set will be 10 lit/hr. Discarded containers/Bags (1500 no.s/Yr), used oil (150 lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

06	Deekay Pine Board PVt. Ltd.	S.No.338 P1, Bhimasar, Anjar, Dist.: Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Deekay Pine Board Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 15.5 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32561/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board, Flush Door, Block Board and Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	**Name of Product**	**Capacity per Month**		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board & Flush Door	70000 m^2	Nil	70000 m^2

2	Block Board	4500 m^2	Nil	4500 m^2
3	Veneer	1500000 m^2	Nil	1500000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door, Block Board and Veneer. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 17165.6 sq.m. Unit has proposed 1570 sq m area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Nandgam is @ 2.47 km from the site. Total cost of the project will be Rs. 0.16Crore. Total water consumption after proposed expansion will be 15.5 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.8 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 30 Lac Kcal/hr. Briquettes of Bio Coal (1 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (380 & 140 KVA) is proposed. Diesel consumption in each DG set will be 125 lit/hr. Discarded containers/Bags (3100 no.s/Yr), used oil (250 lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

07	Woodman Ply	S.No.106, Padana, Gandhidham, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Woodman Ply (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 6.1 KL/day. Fuel requirement is 2 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32577/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Flush door & Block Board and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	Proposed	Total
Existing products				
1	Plywood	36000 m^2	Nil	36000 m^2
2	Block Board	36000 m^2	Nil	36000 m^2
3	Flush Door	23333 m^2	Nil	23333 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood Block Board & Flush door. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 29239 sq.m. Unit has proposed 1065.67 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Padana is @ 1.65 km (SW) from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 6.1 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.2 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 20 Lac Kcal/hr. Briquettes of Bio Coal (2 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (82.5 KVA) is proposed. Diesel consumption in each DG set will be 25 lit/hr. Discarded containers/Bags (3000 no.s/Yr), used oil (150 litre/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

08	Zircon Exports Pvt. Ltd.	S.No.79/1,2,3 & 81 P, Padana, Gandhidham, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Zircon Exports Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 9.85 KL/day. Fuel requirement

is 4 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.

- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32578/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Door Frame Flush door Molded Door & Wooden Cable Drum. and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	**Proposed**	**Total**
Existing products				
1	Door Frame	3000 m^2	Nil	3000 m^2
2	Flush Door	2000 m^2	Nil	2000 m^2
3	Molded Door	5000 m^2	Nil	5000 m^2
4	Wooden Cable drum	600 m^2	Nil	600 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Door Frame Flush door Molded Door & Wooden Cable Drum. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 74498.8 sq.m. Unit has proposed 500 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Padana is @ 0.45 km (S) from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 9.85 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.25 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 2 Lac Kcal/hr and two Boilers (Capacity 0.4 & 0.1 TPH). Briquettes of Bio Coal (4 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity.Two DG sets (380 & 140 KVA) is proposed. Diesel consumption in each

DG set will be 50 lit/hr. Discarded containers/Bags (3500 no.s/Yr), used oil (150 lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

09	Dolby Plyboards Pvt. Ltd.	S.No.312/1 Part A, Nani Chirai, Bhachau, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Dolby Plyboards Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 3.10 KL/day. Fuel requirement is 1.5 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32562/2015 dated 04/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board, Wooden Plates & Flush Door and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Quantity per Month		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board & Wooden Plates	81000 m^2	Nil	81000 m^2
2	Flush Door	36000 m^2	Nil	36000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	50 MT	50 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Wooden Plates & Flush door. The project proponent has applied for manufacturing of Resins (50 MT/Month) within existing plot having area @ 7040 sq.m. Unit has proposed 1000 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Nandigam is @ 1.3 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 3.1 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.4 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 15 Lac Kcal/hr. Briquettes of Bio Coal (1.5 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (380 & 140 KVA) are proposed. Diesel consumption in each DG set will be 20 lit/hr. Discarded containers/Bags (1000 no.s/Yr), used oil (100 Lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Unit has obtained CC&A for manufacturing of Plywood, Block Board, Wooden Plates & Flush door. The project proponent has applied for manufacturing of Resins (50 MT/Month) within existing plot having area @ 7040 sq.m. Unit has proposed 1000 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Nandigam is @ 1.3 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 3.1 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.4 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 15 Lac Kcal/hr. Briquettes of Bio Coal (1.5 MT/day) will be

used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (380 & 140 KVA) are proposed. Diesel consumption in each DG set will be 20 lit/hr. Discarded containers/Bags (1000 no.s/Yr), used oil (100 Lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

10	JG Ply Impex Pvt. Ltd.	S.No.63/1, Meghpar borichi, Anjar, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: JG Ply Impex Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 13.8 KL/day. Fuel requirement is 4 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32564/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door & Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	**Name of Product**	**Quantity per Month**		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door, Veneer	30,00,000 m^2	Nil	30,00,000 m^2
Proposed products				
1	Phenol Formaldehyde Resin			
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			

4	Melamine Formaldehyde	NIL	150 MT	150 MT

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush door & Veneer. The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 21400 sq.m. Unit has proposed 500 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Meghpar Borichi is @ 1.63 km from the site. Total cost of the project will be Rs. 0.16 Crore. Total water consumption after proposed expansion will be 13.8 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (3.3 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 20 Lac Kcal/hr. Briquettes of Bio Coal (4 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (500 KVA) is proposed. Diesel consumption in each DG set will be 50 lit/hr. Discarded containers/Bags (1 MT/Yr), used oil (0.300 MT/Yr) will be generated as hazardous waste.Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

11	Taurus Timer Pvt. Ltd.	S.No.504/1 & 504/2, Bhimasar, Anjar, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Taurus Timer Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B”

projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.

- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 7.5 KL/day. Fuel requirement is 2 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32573/2015 dated 04/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door, Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Quantity per Month		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door Veneer	1108334 m^2	Nil	1108334 m^2
	Veneer	10800 No.s	Nil	10800 No.s
Proposed products				
1	Phenol Formaldehyde Resin	NIL	150 MT	150 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board ,Flush Door Veneer The project proponent has applied for manufacturing of Resins (150 MT/Month) within existing plot having area @ 22706 sq.m. Unit has proposed 3000 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Modvadar is @ 2.0 km (S) from the site. Total cost of the project will be Rs. 0.13 Crore Total water consumption after proposed expansion will be 7.5 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.8 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 15 Lac Kcal/hr. Briquettes of Bio Coal (2

MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (125 & 82.5 KVA) are proposed. Diesel consumption in each DG set will be 50 lit/hr. Discarded containers/Bags (2 MT/Yr), used oil (100 lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

12	Lohit Boards & Panels Pvt. Ltd.	S.No.312/1 Part B, Nani Chirai, Bhachau, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Lohit Boards & Panels Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 5.3 KL/day. Fuel requirement is 2 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32566/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door Veneer, Flush Door, Sawn Timber and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	Proposed	Total
Existing products				
1	Plywood, Block Board ,Flush Door Veneer	82100 m^2	Nil	82100 m^2
2	Flush Door	35000 m^2	Nil	35000 m^2
3	Sawn Timber	3000 CBM	Nil	3000 CBM
Proposed products				
1	Phenol Formaldehyde Resin	NIL	80 MT	80 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board ,Flush Door Veneer, Flush Door, Sawn Timber.

The project proponent has applied for manufacturing of Resins (80.00 MT/Month) within existing plot having area @ 6272.64 sq.m. Unit has proposed 375 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Nandgam is @ 0.90 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 5.3 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.5 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 2 Lac Kcal/hr. Briquettes of Bio Coal (2 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (125 KVA) is proposed. Diesel consumption in each DG set will be 10 lit/hr. Discarded containers/Bags (1600 no.s/Yr), used oil (0.150 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process.

The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

13	Patidar Veeneer PVt. Ltd.	S.No.483, Mithi rohar, Gandhidham, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Patidar Veeneer Pvt. Ltd.. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 3.6 KL/day. Fuel requirement is 1.25 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32560/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door & Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	**Name of Product**	**Quantity per Month**		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door Veneer	300 MT	Nil	300 MT
Proposed products				
1	Phenol Formaldehyde Resin			
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			

4	Melamine Formaldehyde	NIL	90 MT	90 MT

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door & Veneer. The project proponent has applied for manufacturing of Resins (90 MT/Month) within existing plot having area @ 16083.59 sq.m. Unit has proposed 916 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Mithi Rohar is @ 1.66 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 3.6 KL/day. Source of the water will be Tanker supply. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.6 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 10 Lac Kcal/hr. Briquettes of Bio Coal (1.25 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (30 & 100 KVA) is proposed. Diesel consumption in each DG set will be 25 lit./hr Discarded containers/Bags (1500 Nos/Year), used oil (0.60 MT/Year) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Plywood, Block Board ,Flush Door & Veneer and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

14	Rangoli Wood Pvt. Ltd.	S.No.416/1 & 2, Chopadva, Bhachau, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Rangoli Wood Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification,

2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.

- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 6.5 KL/day. Fuel requirement is 1.5 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32571/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing Plywood, Block Board, Flush Door, Core Veneer & Face Veneer now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Capacity per Month		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board & Flush Door	171000 m^2	Nil	171000 m^2
2	Core Veneer	450000 m^2	Nil	450000 m^2
3	Face Veneer	240000 m^2	Nil	240000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	135 MT	135 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door, Core Veneer &Face Veneer The project proponent has applied for manufacturing of Resins (135 MT/Month) within existing plot having area @ 20639 sq.m. Unit has proposed 2046.23 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Chopdava is @ 1.06 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 6.5 KL/day. Source of the water will be Tankers. There will be no generation of any industrial

waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.9 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 30 Lac Kcal/hr. Briquettes of Bio Coal (1.5 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (380 & 140 KVA) is proposed. Diesel consumption in each DG set will be 45 lit/hr. Discarded containers/Bags (3000Nos./Year), used oil (100 lit/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Plywood, Block Board, Flush Door, Core Veneer & Face Veneer and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

15	Shree Reghunandan Industries	Sr.no. Bhadar River Bed, Hadfodi, Upleta, Rajkot	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Shree Reghunandan Industries (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 4.4 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.

- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32572/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board, Flush Door &Veneer and now proposed to manufacture resins as tabulated below:

Sr. No.	Name of Product	Capacity per Month		
		Existing	Proposed	Total
Existing products				
1	Plywood, Block Board, Flush Door &Veneer	50000 m^2	Nil	50000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	90 MT	90 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door &Veneer. The project proponent has applied for manufacturing of Resins (90 MT/Month) within existing plot having area @ 19526 sq.m. Unit has proposed 626 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Chopadva is @ 1.02 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 4.4 KL/day. Source of the water will be Tankers. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (0.7 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 15 lac Kcal/hr. Briquettes of Bio Coal (1 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (100 KVA) is proposed. Diesel consumption in DG set will be 15 lit/hr. Discarded containers/Bags (1500 no.s/Yr), used oil (0.1 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC

sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

16	Navkar Plyboard	Plot No:/S.No.1097, Bhachau, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Navkar Plyboard (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 6.8 KL/day. Fuel requirement is 1.5 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32568/2015 dated 05/12/2015.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Block Board, Flush Door & Veneer. Now unit has proposed to manufacture synthetic resins as tabulated below:

Sr. no.	**Name of Product**	**Quantity per Month**		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door Veneer	90000 m^2	Nil	90000 m^2
2	Veneer	925000 m^2	Nil	925000 m^2
Proposed products				

1	Phenol Formaldehyde Resin	NIL	130 MT	130 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door & Veneer. The project proponent has applied for manufacturing of Resins (130 MT/Month) within existing plot having area @ 28429 sq.m. Unit has proposed 3028.24 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Chopadva is @ 1.04 km from the site. Total cost of the project will be Rs. 0.16 Crore. Total water consumption after proposed expansion will be 6.8 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.9 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 30 Lac Kcal/hr. Briquettes of Bio Coal (1.5 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (200 KVA) is proposed. Diesel consumption in each DG set will be 50 lit/hr. Discarded containers/Bags (3000 no.s/Yr), used oil (0.10 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

17	V.A.Industries	Plot No:/S.No.410/3, Mithi Rohar, Gandhidham, Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: V.A.Industries (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 3.2 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32575/2015 dated 05/12/2015.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Plywood, Block Board, Flush Door & Veneer. Now unit has proposed to manufacture synthetic resins as tabulated below:

Sr. no.	Name of Product	Quantity per Month		
		Existing	Proposed	Total
Existing products				
1	Plywood, Block Board ,Flush Door Veneer	90000 m^2	Nil	90000 m^2
2	Veneer	925000 m^2	Nil	925000 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	130 MT	130 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door & Veneer. The project proponent has applied for manufacturing of Resins (130 MT/Month) within existing plot having area @ 28429 sq.m. Unit has proposed 3028.24 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Chopadva is @ 1.04 km from the site. Total cost of the project will be Rs. 0.16 Crore. Total water consumption after proposed expansion will be 6.8 KL/day. Source

of the water will be GWIL.There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.9 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 30 Lac Kcal/hr. Briquettes of Bio Coal (1.5 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. One DG set (200 KVA) is proposed. Diesel consumption in each DG set will be 50 lit/hr. Discarded containers/Bags (3000 no.s/Yr), used oil (0.10 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

18	Lamba Timber Works Pvt. Ltd.	Survey No-Plot No 205/4,Village: Chudva, Taluka: Gandhidham, Dist: Kutch.	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Lamba Timber Works Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 7.95 KL/day. Fuel requirement is 1 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide

their online submission no. SIA/GJ/IND2/32565/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door, Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	Name of Product	Quantity per Month		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door, Veneer	82500 m^2	Nil	82500 m^2
Proposed products				
1	Phenol Formaldehyde Resin	NIL	90 MT	90 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board, Flush Door, Veneer. The project proponent has applied for manufacturing of Resins (90 MT/Month) within existing plot having area @ 42188.5 sq.m. Unit has proposed 1042.3 mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Padana is @ 0.76 km from the site. Total cost of the project will be Rs. 0.13 Crore. Total water consumption after proposed expansion will be 7.95 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.8 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 10 Lac Kcal/hr. Briquettes of Bio Coal (1 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Two DG sets (180 & 125 KVA) is proposed. Diesel consumption in each DG set will be 100 lit/hr. Discarded containers/Bags (1.1 MT/Yr), used oil (0.102 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting held on 02/02/2016, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that

they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

19	Friendsco Plywood Industries	Survey No- Plot No- 8/2 25/1, Village: Ajapar, Taluka: Anjar, Dist: Kutch	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Friendsco Plywood Industries (herein after Project Proponent – PP) has submitted Application vide their letter dated 19/01/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category "B" projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 12/05/2015.
- During presentation, PP informed that water requirement is 7.6 KL/day. Fuel requirement is 2 MT/day and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, technical aspects of the project, low pollution potential and the details presented during the meeting, after detailed elaboration, request was considered & the project was categorized as B2 category project and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their online submission no. SIA/GJ/IND2/32563/2015 dated 05/12/2015.

Project / Activity Details:

This unit is engaged in manufacturing of Plywood, Block Board ,Flush Door, Veneer and now proposed to manufacture resins as tabulated below:

Sr. no.	**Name of Product**	**Quantity per Month**		
		Existing	**Proposed**	**Total**
Existing products				
1	Plywood, Block Board ,Flush Door	925000 m^2	Nil	925000 m^2
2	Veneer	90000 m^2	Nil	90000 m^2
Proposed products				

1	Phenol Formaldehyde Resin	NIL	90 MT	90 MT
2	Urea Formaldehyde Resin			
3	Melamine Urea Formaldehyde Resin			
4	Melamine Formaldehyde			

The manufacturing of Phenol Formaldehyde, Urea Formaldehyde, Melamine Urea Formaldehyde and Melamine Formaldehyde falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Unit has obtained CC&A for manufacturing of Plywood, Block Board ,Flush Door Veneer. The project proponent has applied for manufacturing of Resins (90 MT/Month) within existing plot having area @ 19628 sq.m. Unit has proposed 500 sq mtr area for the green belt development/Tree plantation. No additional land is required for expansion project. Nearest residential area of village Ajapar is @ 0.64 km from the site. Total cost of the project will be Rs. 0.155 Crore. Total water consumption after proposed expansion will be 7.6 KL/day. Source of the water will be GWIL. There will be no generation of any industrial waste water from the manufacturing activity. Washing water generated will be reused in glue making process. The domestic wastewater (1.9 KL/day) will be disposed off through septic tank/soak pit system. Unit has provided one TFH with capacity 30 Lac Kcal/hr. Briquettes of Bio Coal (2 MT/day) will be used as a fuel. Multi cyclone dust collector is proposed as APCM. There will be no process gaseous emissions from the manufacturing activity. Three DG sets (125*2 & 82.5 KVA) are proposed. Diesel consumption in each DG set will be 50 lit/hr. Discarded containers/Bags (0.15 MT/Yr), used oil (0.15 MT/Yr) will be generated as hazardous waste. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting held on 02/02/2016, the committee noted that this is an existing unit engaged in manufacturing of Core Veneer, Face Veneer, Marine Plywood, Flush door & Block Board and unit is having valid CC&A of GPCB. While discussing about the type of fuel to be used, PP informed that they will use Briquettes of Bio-Coal only. On asking about VOC monitoring, PP informed that they will provide VOC sensors at strategic locations within the premises. During the meeting the Committee concerned about no generation of waste water from the manufacturing activity and feasibility to reuse waste water generated from the washing activity in to glue making process. The project proponent informed that this resin is water based. Moreover the glue making process from resin requires additional water for mixing. Hence, all washing water from resin plant will be reused for glue mixing. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

20	Gujarat State Fertilizers & Chemicals Ltd. (GSFC)	P.O. Fertilizer Nagar, Dist.: Vadodara	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- M/s: Gujarat State Fertilizers & Chemicals Limited (herein after Project Proponent – PP) has submitted application vide their letter dated 17/05/2014.
- The project was considered for TOR finalization in the meeting of the SEAC held on 27/08/2014.
- PP has applied for amendment in TOR with revised Form-1 & Pre Feasibility Report vide their letter dated 23/02/2015.
- The project proponent was called for brief presentation and discussion in the meeting of SEAC on 24/03/2015. Committee accepted the amendment sought by the project proponent and the same was communicated to the project proponent in writing also vide this office letter dated 29/05/2015.
- Final EIA report prepared by M/s: Eco Chem Sales and Services, Surat was submitted by project proponent vide online proposal no. SIA/GJ/IND/2893/2015 dated 21/12/2015.

Project / Activity Details:

This is an existing integrated multi-products manufacturing complex having various plants of Ammonia, Urea, Melamine, Phosphoric Acid, DAP/ASP/MAP/ NPK, Sulphuric Acid, Caprolactum, Co-generation (Steam & Power), Nylon – 6, MEK Oxime – I, Urea Phosphate, Methanol & HAS Crystal and now unit has proposed to expand production capacity of Melamine from 15000 MTPA to 55000 MTPA as below:

Sr. no.	Plant Name	Name of product	Quantity MTPA
Existing (For Melamine plant)			
	Melamine – I	Melamine	5000
	Melamine – II	Melamine	10000
Proposed			
	Melamine – III	Melamine	40000
Total after proposed expansion			55000

The proposed project fall under category 5(f) of the schedule of the EIA Notification, 2006. As the project is situated in notified industrial estate, it falls in Category B.

Unit has obtained CC&A for existing products from GPCB which is valid up to 06/06/2016. Proposed expansion will be carried out within the existing premises and no additional land is required. Approx. 7950 sq. m area will be made available by scrapping of old Ammonia plant-I & II within the existing premises. The estimated project cost is Rs. 900 Crores of which Rs. 30 Crores is earmarked towards capital cost for environmental management plan (EMP). Total cost of the project is INR 900 Crores for the proposed expansion. Out of which INR 30Crores will be earmarked towards environmental protection measures and INR 0.134 Crores will be invested towards recurring cost. Total capacity of Melamine plant after expansion will be 55000 MTPA. Proposed process is a non-catalytic reaction, the quality of the product can be

achieved faster and hence there will less requirement of shutdown to maintain quality Solid/hazardous waste generation, air emission will be minimum with respect to existing production technology. There will be no By-products from the proposed expansion. Ammonia and CO2 will be used as main raw materials, which are available internally, thus minimizing the transportation of raw materials. Consumption of natural gas and steam is less compare to existing plant technology. The Off-Gases generated at much higher pressure and temperature, thus free from water and can be recycled back for production of molten urea. Molten Urea will be derived as an intermediate product. It will be used as a raw material for captive consumption in existing Melamine plant. Existing water consumption is 32000 KL/day. Total water requirement for the proposed expansion will be 3807.7 KL/day, which includes industrial – 3800.7 KL/day & Domestic- 7 KL/day. At planning stage fresh water requirement for the proposed expansion was 2578.2 KL/day. However, as a part of water conservation planning, revised fresh water requirement is reduced by 303.9 KL/day. Unit has proposed to reuse treated waste water to the tune of 1533.4 KL/day. Hence, the fresh water requirement will be only 2274.3 KL/day. Additional fresh water requirement will be met through existing water supply source French well at Mahi River. There is an inbuilt technology for purification and treatment of waste water in proposed melamine plant. Process condensate (187.8 KL/day) will be partly reused in process plant (90.6 KL/day) and partly reused for Boiler feed (97.2 KL/day). Process waste water (722.5 KL/day) along with Cooling tower bleed off (1199.9) will further passed through RO plant of capacity 1950 KL/day and RO permeate (1345.7 KL/day) will be reused in CT make-up while RO reject (576.72 KL/day) will be disposed to Vadodara Enviro Channel Limited (VECL) common channel along with treated effluent of existing plants for ultimate disposal to estuary of Mahi River. Domestic waste water (6 KL/day) will be disposed off through septic tank - soak pit. At present GSFC have installed two ETP for treatment of existing effluent from various plants and the composite treated effluent (11474 KL/day) is discharged to common effluent channel of M/s: Vadodara Enviro Channel Limited (VECL) for ultimate disposal to estuary of Mahi River. GSFC has valid membership of VECL for treated effluent disposal to VECL. At present natural gas is used as a fuel in Salt Furnace of Melamine plant – I & II. Unit has proposed one gas fired heater (furnace) for proposed expansion. Consumption of natural gas for proposed expansion will be 1104 SCM/hr. One DG set (Cap. 3000 KVA) is proposed in addition to existing 12 DG sets. Consumption of HSD for proposed DG set will be 650 Lit./hr. Unit has proposed Ammonia scrubbers as APCM for scrubbing of Ammonia from Off gases containing Ammonia. The scrubbed stream is taken to the Waste Water Desorber (K-5441) for ammonia recovery which is taken back to process. Bag filters are proposed as APCM with Melamine pneumatic transport system for control of Melamine dust. Collected dust will be send back to begging section. Unit has proposed Scrubber with Melamine Dryer plant for control of NH3 and CO2. Hazardous waste generation from the proposed expansion will be Activated Carbon / Carbon Cartridge (7.7 MT/Annum), Molten Salt - consisting of KNO3, NaNO3 & NaNO2 (66 MT in a span of 7 Years) and Dowtherm - a mixture of diphenyl, diphenyl oxide and high boiling hydrocarbons (8.25 MT in a span of 7 Years). Activated Carbon will be sent to CHWIF and Carbon Cartridge will be sent to common TSDF site. Molten Salt will be sent to common TSDF site. Dowtherm will be recycled or sent to CHWIF.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. The baseline environmental quality has been assessed for various components of the environment viz. air,

noise, water, biological and socioeconomic The baseline environmental study has been conducted for the study area of 10 km radial distance from project site for the period March 2014 to May 2014. Ambient Air Quality monitoring was carried out for PM10, PM2.5, SO2, NOx, VOC and NH3 at eight locations, including the project site. Values conform to the prescribed standards for Ambient Air Quality. The incremental Ground Level Concentration (GLC) has been computed using ISCST – 3 model. Significant maximum GLCs are associated with the PM & SO2 emissions from the proposed plant, whereas impact due to NOx and NH3 emissions will be marginal. The resultant concentrations are within the NAAQS. During the meeting, technical presentation made during the meeting by project proponent. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios are incorporated in EIA report. Emergency Shutdown System (ESD) will be provided for all safety interlocks for protection from hazards caused by failures in the operation of the process plant. ESD system shall automatically bring the relevant equipment or part of the plant to a safe condition, when a critical process variable reaches the limit of an acceptable control value. The Fire Detection and Alarm System (FDAS) will be provided. Gas detectors/sensors of suitable types will be provided for detection of any leakage to enable necessary corrective actions by plant personal to protect environment against possible hazards. Benefits of the new technology, Safety aspects, Occupational health impacts, green belt area, environmental compliances of existing activities, CSR activities etc have been discussed in detail. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.

21	Aarti Drugs Limited	Plot No: 2902,2904,2601,2602,2603, 2604, 2605, 2509, GIDC-Sarigam, Ta.: Umbergam, Dist.: Valsad	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Aarti Drugs Limited (herein after Project Proponent – PP) has submitted Application vide their letter dated 10/09/2014.
- The project was considered for TOR finalization in the meeting of the SEAC held on 05/12/2014.
- The project was considered for TOR finalization in the meeting of the SEAC held on 05/12/2014.
- Final EIA report prepared by M/s: Eco Chem Sales and Services, Surat was submitted by project proponent vide letter dated 08/05/2015.
- Proposed project site is located within the notified industrial area and thus public hearing is exempted as per MoEF&CC Office Memorandum no. J – 11013/36/2014-IA-I dated 10/12/2014.
- The project proponent was called for appraisal of the project in the meeting held on 16/07/2015. During the meeting, the project was appraised as per the prescribed TOR and the information furnished in the EIA/EMP report.
- During the meeting, Technical presentation during the meeting included the Point wise ToR compliance including technical details. Committee noted that Project proponent has not carried out R & D work to develop a process to convert Sodium sulphate in to valuable

product as discussed in the earlier meeting. Committee noted that PP has not covered baseline study of VOC which is a project specific parameter. Committee asked to submit compliance of relevant TOR regarding baseline study. It was also observed that the details regarding meteorological data, Techno-economic viability of the effluent treatment system, MOU / agreements done with actual consumers, steam requirement, Solvent recovery system with mass balance etc. are not covered properly in EIA report. After deliberation, It was unanimously decided to consider the project for appraisal only after submission of the following: (1) Details regarding any R & D work done to develop a process to convert Sodium sulphate in to valuable product. (2) How the Identification of the monitoring stations was carried out as the meteorological data was collected during the period December 2014 to February 2015? (3) Techno-economic viability of the effluent treatment system to achieve zero discharge should be justified in detail in terms of profit margin of per kg production of each product. (4) Give final confirmation MoU/Agreements done with actual consumers with quantity considering the maximum production capacity. (5) Details of management of the hazardous wastes to be generated from the project stating detail of Source of generation, storage area for each type of waste, its handling and its disposal. Methodology of de-contamination and disposal of discarded containers and its record keeping. Give justification for the proposed quantity of hazardous waste generation. Explore the possibilities for Co-Processing of the Hazardous waste instead of disposal into TSDF/CHWIF. (6) Compliance of ToR no. 19 (All the details and impact regarding additional Steam obtained from sister concern unit shall be incorporated). (7) Compliance of ToR no. 20 (Complete details regarding spent Solvent generation & Management) (8) An undertaking by the Project Proponent on the ownership of the EIA report as per the MoEF&CC OM dated 05/10/2011 and an undertaking by the Consultant regarding the prescribed TORs have been complied with and the data submitted is factually correct as per the MoEF&CC OM dated 04/08/2009. (9) Copy a certified report of the latest status of compliance of the conditions stipulated in the environmental clearance for the existing operation of the project by the Regional Office of the MoEF&CC. (10) Summary & Conclusion as per the generic structure given in Appendix III A of the EIA Notification 2006.

- PP has submitted additional details vide their letter dated 27/10/2015.

Project / Activity Details:

This is existing unit engaged in manufacturing of API Bulk drugs and now proposed for expansion as tabulated below:

Sr. no.	Name of the Products	Production Capacity MT/Month		
		Existing	Proposed	Total after expansion
1	Metronidazole	100	200	300
By-Products				

1	Ammonium Sulphate	160	599	759
2	Methyl Formate	0	345	345
3	Mixed Glycol	0	364.2	364.2

The proposed project fall under category 5(f) of the schedule of the EIA Notification, 2006. As the project is situated in notified industrial estate, it falls in Category B.

Proposed expansion will be carried out within the existing plot having area 10713 Sq. m. Total cost of the project is INR 10.93 Crores for the proposed expansion. Out of which INR 1.10 Crores will be earmarked towards environmental protection measures and INR 1.05 Crores will be invested towards recurring cost. Total water consumption after proposed expansion will be 141 KL/day (Existing = 34 + Proposed = 107) which will be sourced from GIDC water supply. Total industrial waste water generation (mainly from cooling tower blow down & floor/container washing & scrubber) will be 7 KL/day (Existing = 3.31 + Proposed = 3.69), which will be treated in primary and tertiary effluent treatment plant followed by Incinerator. Unit has provided one incinerator for liquid effluent having capacity 500 litre/hr. There will be no discharge of any industrial effluent and zero discharge will be maintained. Domestic waste water 5 KL/day will be disposed off through septic tank/soak pit system. Unit has provided Ventury scrubber followed by Caustic Scrubber is provided as APCM. Natural gas (40 SCM/hr) will be used as fuel in Incinerator. At present steam requirement is obtained from their sister concern unit M/s: Aarti Industriues Limited, GIDC Sarigam. Two DG sets (Capacity 380 KVA each) are proposed as standby facility. HSD (72 Kgs/hr) will be used as fuel. One set of water scrubber followed by alkali scrubber is exists and one additional set is proposed to control process gas (SO2) generated from Sulphonation stage (Ethoxilation reactor). Hazardous waste to be generated will be ETP Sludge/Solid (15 MT/Year), Used Oil (0.072 MT/Year), Discarded Container (1.44 MT/Year), Spent carbon (108.0 MT/Year), Date expired medicines (1.018 MT/Year), Incineration ash (198 MT/Year), Process waste (sodium sulphate) – 1389.6 MT/Year. ETP waste & Incineration ash will be disposed off at the nearby common TSDF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized re-cyclers. Used oil & Date expired medicines will be incinerated in their own Incinerator. Spent Carbon will be either sent for co-processing or disposed off at the nearby common TSDF. Process waste (sodium sulphate) will be Sell out to actual users or dispose off into TSDF site.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. The study period considered for EIA was December 2014 to February 2015. Air quality monitoring was carried out at seven locations. Humidity was observed between 19 % to 89 %. The wind speed was in the range of 0 to 13.2 km/hr during study period. It was maximum in the month of January, 2015. During the study period samples were collected for the parameters such as PM10, PM2.5, SO2, NOx, NH3 and HCl. Results of HCl were found below the detection limit. Concentration of SOx and NOx were well within the prescribed norms. As per the results, more than 90% results of PM2.5 and PM10 are well within the prescribed norms. Results slightly exceed the concentration of PM2.5 and PM10 near project site and Karanj. This dust concentration might be increased due to either open land or vehicle movement in confined

area. Maximum Concentration of NH3 was found 7.5 µg/m3 near project site. The modelling study reveals that the air emissions from the proposed project will not affect the ambient air quality in the region within 10 km radius. There will be no considerable increment in pollutant due to proposed expansion. During the meeting held on 02/02/2016, Committee noted that PP has submitted point wise reply of all the queries raised during SEAC meeting dated 16/07/2015. Unit has submitted that the by-product Sodium Sulphate will be sent to the SO dyes manufacturers. Upon asking about the additional steam requirement, PP informed that at present they are using 1 TPH steam for process heat requirement and they are receiving 1 TPH steam from M/s. Aarti Industries Ltd. (AIL). AIL has installed 6 TPH capacity of coal fired steam boiler and they are using only 1 TPH steam, so AIL has spare capacity of steam of 4 TPH. For the proposed expansion, they require additional 1 TPH steam which will be procured from AIL. Multi cyclone separator followed by bag filter is provided as APCM with 6 TPH Boiler at AIL. AIL has also obtained CC&A for the same. Letter from AIL regarding supply of steam is submitted. Issues related to operation of incinerator, CSR, compliance status etc. have been discussed in detail. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.

22	Prima Comfort Products Pvt Ltd.	S.No.333/p, Vill. Kerala, Nalsarovar Road, Bavla, Ahmedabad.	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Prima Comfort Products Pvt Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 05/05/2015.
- The location of the unit is outside the notified area. As per amendment to EIA Notification, 2006 vide SO 1599 (E) dated 25.06.2014, small units are categorized as Category “B” projects. Small units are defined as with water consumption less than 25 M3/day; Fuel consumption less than 25 TPD; and not covered in the category of MAH units as per the Management, Storage, Import of Hazardous Chemical Rules (MSIHC Rules), 1989.
- This project was considered in the meeting of the SEAC held on 30/07/2015.
- During presentation, PP informed that water requirement is 3.5 KL/day. Fuel requirement is 50 Lit./hr and Chemicals to be used are not covered in MAH category. Hence, this project falls under Category B of project activity 5(f) as per the EIA Notification 2006.
- Looking to the small scale of the project, its location, low pollution potential and the details presented during the meeting, after detailed discussion, the project was categorized as B2 and the additional information was sought for appraisal of the project and certain additional information was sought from the project proponent for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide their letter dated 27/10/2015.

Project / Activity Details:

The project proponent has applied for manufacturing following products, which falls in the project / activity no. 5(f) of the schedule of the EIA Notification-2006:

Sr.	Name of Product	Quantity

No.		MT/Month
1	P. U. Foam and its Articles	100

The manufacturing of P.U. Foam falls under the project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 18627 sq. m. Unit has proposed 5600 sq. m area for the green belt development/ Tree plantation. Expected project cost is Rs. 38 Crores. Aerial distance of Village Kerala is @ 800 m from the proposed site. It is reported that no national park/sanctuary or ecologically sensitive area is located within 10 km distance. Total water consumption for proposed project will be 3.5 KL/day (3 KL for Domestic and 0.5 KL for industrial) which will be sourced from Bore Well. There will be no waste water generation from industrial activities. Domestic waste water generation will be 1.8 KL/Day which will be disposed through soak pit system. Unit has proposed to install one D.G. Set of 350 KVA and HSD (50 Lit/hour) will be used as fuel for D.G. Set. No process gaseous emission is envisaged. The Hazardous waste to be generated from the manufacturing activity will be used oil/spent oil (50 Lit/Year) and reused for lubrication of machineries in unit. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting held on 02/02/2016, the Committee was concern about the storage and handling of TDI (Toluene Di- Isocynate). While discussing about TDI, PP informed that they will provide TDI storage tank of capacity 8 KL. The project proponent was asked to store TDI with minimum required quantity to minimize risk. They were also asked to provide adequate Personal Protective Equipments to the workers, to carry out regular health check up of the workers and to maintain the records of the same. They were asked to provide close system with stringent process controls for TDI. PP agreed upon to provide close system with engineering control and provision of sensors with alarm system. After deliberations on various aspects, the committee decided to recommend the project to SEIAA, Gujarat for the grant of Environmental Clearance.

23	Akash Enterprise	Plot No. C-30, Phase-II, GIDC Estate, Naroda, Ahmedabad.	Appraisal

Project / Activity No.: 5(f)

Project status: New

Chronology of EC Process:

- This project proposed by M/s: Akash Enterprise. (herein after Project Proponent – PP) has submitted Application vide their letter dated 07/05/2015.
- This project was considered in the meeting of the SEAC held on 28/07/2015.
- Looking to the small scale of the project, location of the project in GIDC-Naroda and low pollution potential from proposed activities, after detailed deliberation, the project was categorized as B2 and the additional information was sought for appraisal of the project.
- The project proponent submitted the additional information sought by the committee, vide

their letter dated 10/11/2015.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Dyes Intermediates and now proposes for expansion by addition of manufacturing of Synthetic Organic resins as tabulated below:

Sr. No.	Name of Products	Quantity (MT/ Month)		
		Existing	Proposed	After Proposed
1	MUA	5	--	5
2	Alkali Resin	--	100	100
3	PU Resin	--	100	100
4	Polyamide Resin	--	100	100
5	Epoxy Resin	--	100	100
6	Polyester Resin	--	100	100

The above products fall in the project activity 5(f) of the schedule of Environment Impact Assessment Notification, 2006. As the unit is located in the GIDC-Naroda, it falls in category "B" of the schedule.

Proposed expansion will be carried out within the existing plot with area 850 sq. m. Unit has proposed @ 50 sq. m area for tree plantation/green area. The total cost of the proposed expansion is Rs. 0.6 Crore. Total water consumption after proposed expansion will be 5.33 KL/day (Existing- 3.63 KL/day + Proposed- 1.7 KLPD). Fresh water will be sourced from GIDC water supply. Additional industrial effluent generation from the proposed products will be 1.69 KL/day. However, ttal industrial effluent generation will be 3.880 KL/day, which is less than the existing- 4 KL/day. This is due to removal of existing product PAABSA. Industrial waste water will be treated in primary ETP and sent to CETP of NEPL-Naroda. Domestic waste water (3 KL) will be disposed off into soak pit system. At present Wood/Agro Waste Briquettes: 40 kg/hr is used as a fuel in one small boiler (1 TPH). Unit has proposed one TFH (6 Lac Kcal/hr) & one DG set (120 KVA). Wood/ Agro Waste Briquettes (300 kg/hr) for TFH and HSD (20 ltrs/hr) is proposed as fuel. No process gaseous emission is envisaged. Cyclone separator is proposed for TFH. Hazardous waste generated from the manufacturing activity will be ETP sludge (4 MT/Year), Discarded containers/liners (2 MT/Year), Distillation residue (0.1 MT/Year) and Used oil (0.03 MT/Year). ETP waste will be disposed off at the nearby common TSDF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers. Distillation residue will be sent to CHWIF.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting

held on 02/02/2016, technical presentation made during the meeting also covered the point wise reply of additional information sought. Committee noted that PP has proposed to send their effluent to CETP or common MEE of Naroda. While discussing about the mode of disposal, Committee noted that PP has obtained membership certificate for both the facility viz. CETP & common MEE. However, looking to the characteristics of waste water Committee suggested to send waste water to CETP. Further PP informed that they have removed the product PAABSA and as per revised water balance there is no increase in quantity of waste water generation. Hence, there is no increase in effluent load on CETP. After detailed discussion, it was decided to recommend the project to SEIAA, Gujarat for grant of Environmental Clearance.

24	Sodium Metal Pvt. Ltd.	Plot no.21, GIDC-Nandesari, Dist.: Vadodara	Appraisal

Project / Activity No.: 5(f)

Project status: Expansion

Chronology of EC Process:

- This project proposed by M/s: Sodium Metal Pvt. Ltd. (herein after Project Proponent – PP) has submitted Application vide their letter dated 10/02/2015.
- The project was considered for TOR finalization in the meeting of the SEAC held on 19/05/2015.
- Final EIA Report prepared by M/s: RAAS Envirocare was submitted project proponent on dated 27/11/2015.

Project / Activity Details:

This is an existing unit engaged in manufacturing of Synthetic Organic Chemicals and now unit has applied for expansion as tabulated below:

Sr. no.	Product	Existing MT/ Month	Total After Expansion MT/ Month
1	Oranger Crystal (Solid / Liquid)	25	50
2	Acetyl YaraYara and their Isomers	100	275
3	Di-Isopropyl Nitrite (DIPPN)	6	6
4	Pheniramine Base-A (PPAN)	6	6
5	Amide of Cyclohexane Diacetic Acid (CDAM)	30	30
6	YaraYara	100	350
7	Acetophenone	0	500
8	Verdyl Ester and their Isomers	0	300
9	R & D Product	0	10
10	Poly Aluminium Chloride Solution	350	2250
12	Methanol ML	35	35

The project falls under Category B of project activity 5(f) as per the schedule of EIA

Notification 2006.

The total Manufacturing capacity of the existing plant is 267 MT/Month which will be increased to 1527 MT/Month. Total plot area is 25800 sq.m. Unit has proposed 750 sq. m of area for green belt/tree plantation area. No additional land is required for the proposed expansion. The estimated cost of the proposed project is Rs 30 Crores. After proposed expansion total water consumption will be increased from 112.25 KL/day to 333 KL/day (307 KL Industrial, 16 KL – Domestic & 10 KL Gardening). Source of the fresh water is GIDC water supply. After proposed expansion, Industrial waste water generation will be increased from 89.7 KL/day to 240 KL/day. (200 KL from process, 10 KL from Boiler, 20 KL from Cooling tower & 10 KL from washing). Industrial effluent will be taken to in-house treatment plant with hydrodynamic cavitation reactor and treated effluent will be sent to CETP after achieving CETP inlet norms. Domestic waste water (12 KL/day) will be sent to soak pit system.

At present unit has provided one Boiler (5 TPH), one TFH (4 Lac Kcal/hr) and one DG set (250 KVA). White coal (20 MT/day), Natural gas (30 SCM/hr) & HSD (20 ltrs/hr) is used as fuel in Boiler, TFH & DG set respectively. Unit has proposed steam boilers (5 TPH each), two TFH (4 Lac Kcal/hr each) & one DG set (500 KVA). White coal (20 MT/day X 2), Natural gas (30 SCM/hr X 2) or White coal (10 MT/day X 2) & HSD (50 ltrs/hr) will be used as fuel in proposed Boilers, TFHs & DG set respectively. At present water scrubber is provided for control of process emission of HCl gas. Now unit has proposed additional water scrubber for control of process emission of HCl gas from proposed activity. Unit has also provided water scrubbers for control of process emission - Ammonia gas. The HCl generated from HCl scrubber will be reused back into the process (captive consumption). The scrubber effluent from the ammonia scrubber will be sent to ETP for treatment. The solvent storage tanks will be equipped with vent condensers to control loss of VOC. The Aluminium chloride solution generated will be converted in PAC (Poly Aluminium Chloride) by installing their own plant for manufacturing PAC and it shall be sold out to actual users. Spent solvent will be recovered in-house and the recovered solvents will be stored and reused. During the manufacture of verdyl esters, the last cut of the process also possess very good aroma and has find its own usage in Agarbatti and perfume industry for soap's and detergent's perfume. Recovered spent HCL (30%) will be sold to the actual users. Hazardous waste to be generated after proposed expansion are Used /Spent oil (3 MT/Year), Discarded containers/ barrels /liners (36 MT/Year), ETP sludge (1800 MT/Year), Residue waste (180 MT/Year) and Inorganic Waste (660 MT/Year). Dilute Sulphuric Acid (40%) will be sold to the actual users.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Ambient air quality monitoring was carried out at 10 locations during winter season from November-2014 to February – 2015 and submitted baseline data indicates that ranges of concentrations of PM10 (75.1 µg/m3 to 90.9 µg/m3), PM2.5 (31 µg/m3 to 47.5 µg/m3), SO2 (23.5 µg/m3 to 33 ug/m3) and NOx (33.0 µg/m3 to 43.8 µg/m3). The concentration of chlorine was 10-14 µg/m3 and ammonia was 1- 4 ppm. Just outside the GIDC Estate both chlorine and ammonia were below detectable limits. At all other locations both chlorine and ammonia were below detectable

limits. VOC measurements were carried out inside the plant premises. Concentrations of all the parameters are below the National Ambient Air Quality Standards. AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be very low to have any major impact on the surrounding environment. The maximum concentrations occurs at the inside the GIDC Estate. Issues related to waste water treatment, Occupational health, Risk assessment etc. have been discussed in detail. Committee found that PP has not considered Benzyl Cyanide for worst case scenario which is a highly toxic chemical. Committee asked to submit revised Risk Assessment report in compliance with relevant ToR. It was observed that TOR related to compliance of existing activity, occupational health, risk assessment, management of hazardous waste & Spent acids etc. have not been addressed properly. After deliberation, It was unanimously decided to consider the project for further consideration only after submission of the following:

1. Source of gaseous emissions of HCl and NH3 with complete details about management of exhausted scrubbing media (Quality & Quantity). Give feasibility report for reuse in manufacturing process within the premises.
2. Status of MEE (Multiple Effect Evaporator) provided for existing activity.
3. Details of R&D products in with reference to ToR no.4 & 6. Give undertaking that R&D products shall not be sold commercially. Give complete details of Air, Water & Hazardous waste generation from the proposed R&D products and its management.
4. Compliance of ToR no. 19, 22, 38, 39.
5. Submit copy of Registration obtained by actual users of Hazardous waste viz. Spent Sulphuric acid etc. from Central Pollution Control Board (CPCB), New Delhi under Rule – 11 of the Hazardous (Management, Handling and Trans boundary Movement) Rules – 2008. Submit MoU copy between your industry and actual users mentioning quantity.
6. Exact quantity of last cut of the manufacture process of Verdyl esters and its management. Give name of the authorised actual end consumers. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said item from the proposed project.
7. Certificate of accreditation issued by the NABET, QCI to the environmental consultant.

25	Laxmi chem.	Plot no 153 ,GIDC-Kalol, Dist.: Panchmahal	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Laxmi Chem (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/2636/2015 dated 30/09/2015.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Textile Auxiliary Chemicals like Textle binder, Wetting & Dispersing agents, Flock Binder and Paint Binder as tabulated below:

Sr. no.	Name of the Products	Quantity MT/Month
Various Auxiliary Chemicals		
1	Textile Binder	158
2	Wetting & Dispersing Agents	50
3	Flock Binder	50
4	Paint Binder	75
Total		**333**

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 903.67 sq. m & unit has proposed 100 sq. m area for the green belt development/Tree plantation. Expected project cost is Rs. 0.19 Crores. Total water consumption for proposed project will be 10 KL/day (0.50 KL for Domestic, 0.60 KL for Gardening and 8.90 KL for Cooling) which will be sourced from GIDC water supply. There will be no generation of Industrial waste water from the proposed project activities. Domestic waste water (0.40 KL/day) will be disposed off into soak pit system. Unit has proposed one HAG and one DG set (65 KVA as stand-by facility. LDO (5 Lit./hr) will be used as a fuel for HAG and HSD (8 Lit./hr) will be used as a fuel for DG set. Adequate stack height will be provided for HAG and DG set. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be ETP Discarded containers/Bags/Liners (0.02 MT/Year) and used oil (0.5 MT /Year).Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, PP was asked to ensure that there shall not be any kind of effluent generation from the manufacturing activities as well as any ancillary operations. Committee noted that there is no process gas emission and they will use LDO as a fuel for HAG. Safety aspects of Acrylamide, Styrene monomer have been discussed. The committee desired to have MSDS of materials to be handled, information on storage of each hazardous chemical and safety measures thereof. Committee asked to provide necessary Personal Protective Equipments [PPEs] and requisite first aid measures. PP informed that all the liquid raw materials will be stored in Barrels, however they will take all the necessary safety precautions. Project proponent has requested to consider the project as B2 category project. The request was considered by the committee looking to the low pollution potential in terms of air & water and location of the project in GIDC Kalol and the following additional information was sought for appraisal of the project.

1. Copy of plot holding certificate obtained from GIDC Kalol.
2. Layout plan of the factory premises showing the proposed expansion activities on the same. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
3. Detailed manufacturing process along with chemical reactions and mass balance

(including reuse-recycle, if any) for each product to be manufactured. Details on end use of each product.

4. Give full name and chemical formula of all the raw materials and products. Monthly consumption of each raw material.
5. Water balance (including reuse-recycle, evaporation if any). Copy of permission letter obtained from the GIDC for supply of raw water as per the requirement of the proposed expansion.
6. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
7. Undertaking to install separate reaction vessels for each of the product and not to carry out any washing activity.
8. Detailed technical justification regarding no generation from the manufacturing process and ancillary operations (Boiler, Cooling etc.) and undertaking in this regard.
9. Plan for management and disposal of waste streams to be generated from spillage, leakages etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
10. Action plan for 'Zero' discharge of effluent shall be included and legal undertaking in this regard.
11. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same.
12. Specific details of (i) Details of the utilities required, (v) Types of fuel to be used and quantity of the each fuel, (vi) Flue gas emission rate from each utility along with stack height, (vii) Air Pollution Control Measures proposed along with its adequacy, (viii) List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it.
13. Specific details of fugitive emission from the unit along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR.
14. Details of measures proposed for noise pollution abatement & its monitoring.
15. Details of management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling and its disposal. How the manual handling of the hazardous wastes will be minimized? (All these details should be in tabular format with comparative data for existing and proposed activity). Ensure that there is no hazardous waste generation from the manufacturing process. i.e. Process residue, other wastes contaminated with Chemicals etc.
16. Methodology of de-contamination and disposal of discarded containers and its record keeping.
17. Complete Management plan for By-products/Spent acids to be generated from the project including their quantity, quality, characteristics, end use etc. along with the name and address of end consumers to whom the by-product will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-product from the proposed project. Also give characteristics of the by products and feasibility of their actual use in respective products as a raw material.
18. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.

19. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
20. Copy of membership certificate from Common Environmental Infrastructure including the TSDF / Common Hazardous Waste Incineration facility for disposal of hazardous wastes to be generated from the proposed project. (If required.)
21. A detailed EMP including the protection and mitigation measures for preventing impacts on human health and environment as well as detailed monitoring plan with respect to various parameters and responsible head for the environmental management cell and environmental management cell proposed for implementation and monitoring of EMP.
22. A detailed Green Belt Development Program including annual budget, types & number of trees to be planted, area under green belt development [with map]; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the GIDC area and elsewhere.
23. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
24. Details of quantity of each hazardous chemical to be stored, Material of Construction of major hazardous chemical storage tanks, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals. How the manual handling of the hazardous chemicals will be minimized?
25. MSDS of all the products and raw materials.
26. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
27. Specific safety details / provisions for various hazardous chemicals including solvents to be used in the process along with onsite emergency plan.
28. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
29. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
30. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.
31. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
32. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
33. A tabular chart with index for point-wise compliance of above details.

The project shall be appraised on satisfactory submission of the above.

26	Ess Jay Polymer	Plot no. J/6135, GIDC-Sachin , Road No.- 61,	Screening &

		GIDC, Tal- Choryasi, Dist.: Surat	Scoping

Project / Activity No.: 5(f)

- M/s: Ess Jay Polymer (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/2927/2015 dated 30/09/2015.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic Organic Chemicals as tabulated below:

Sr. no.	Name of the Products	Quantity MT/Month
1	M. T. Blanket Adhesive	3
2	S. M. 100 Lamination Gum	5

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 703 sq. m & unit has proposed 145 sq. m area for the green belt development/Tree plantation. Expected project cost is Rs. 0.2165 Crores. Total water consumption for proposed project will be 4.33 KL/day (0.8 KL for Domestic, 0.4 KL for Gardening and 3.13 KL for Industrial) which will be sourced from GIDC water supply. There will be no generation of Industrial waste water from the manufacturing process. Waste water generated from Boiler and Cooling (0.2 KL/day) will be completely reused for domestic (flushing) purpose. Domestic waste water (0.7 KL/day) will be disposed off into soak pit system. Unit has proposed one Boiler (600 Kg/hr) and one DG set (125 KVA as stand-by facility. LPG (3 Kg/day) will be used as a fuel for HAG and Diesel (7 Lit./hr) will be used as a fuel for DG set. Adequate stack height will be provided for HAG and DG set. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be Discarded containers/Bags/Liners and used oil. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, PP was asked to ensure that there shall not be any kind of effluent generation from the manufacturing activities. Committee noted that there is no process gas emission and they will use LPG as a fuel for Boiler. Project proponent has requested to consider the project as B2 category project. The request was considered by the committee looking to the low pollution potential in terms of air & water and location of the project in GIDC Sachin and the following additional information was sought for appraisal of the project.

1. Copy of plot holding certificate obtained from GIDC Sachin.
2. Layout plan of the factory premises showing the proposed expansion activities on the same. Provision of separate entry & exit and adequate margin all round the periphery for

unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.

3. Monthly consumption of each raw material.
4. Detailed manufacturing process along with chemical reactions and mass balance (including reuse-recycle, if any) for each product to be manufactured. Details on end use of each product.
5. Give full name and chemical formula of all the raw materials and products.
6. Water balance (including reuse-recycle, evaporation if any). Copy of permission letter obtained from the GIDC for supply of raw water as per the requirement of the proposed expansion.
7. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes and to conserve fresh water.
8. Undertaking to install separate reaction vessels for each of the product and not to carry out any washing activity.
9. Detailed technical justification regarding no generation from the manufacturing process and feasibility to reuse waste water generated from utilities in to flushing in toilets. Submit the undertaking in this regard.
10. Plan for management and disposal of waste streams to be generated from spillage, leakages etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
11. Action plan for 'Zero' discharge of effluent shall be included.
12. Details of possibility of chemical seepage & consequent soil contamination & mitigation measure proposed for the same.
13. Specific details of (i) Details of the utilities required, (v) Types of fuel to be used and quantity of the each fuel, (vi) Flue gas emission rate from each utility along with stack height, (vii) Air Pollution Control Measures proposed along with its adequacy, (viii) List the sources of fugitive emission from the unit along with its quantification and proposed measures to control it..
14. Specific details of fugitive emission from the unit along with measures proposed to monitor VOC within work area. Details of ventilation system proposed in the work area. Measures proposed to keep the work area environment as per the norms of GFR.
15. Details of measures proposed for noise pollution abatement & its monitoring.
16. Details of management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling and its disposal. How the manual handling of the hazardous wastes will be minimized? (All these details should be in tabular format with comparative data for existing and proposed activity). Ensure that there is no hazardous waste generation from the manufacturing process. i.e. Process residue, other wastes contaminated with Chemicals etc.
17. Methodology of de-contamination and disposal of discarded containers and its record keeping.
18. Complete Management plan for By-products/Spent acids to be generated from the project including their quantity, quality, characteristics, end use etc. along with the name and address of end consumers to whom the by-product will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-product from the proposed project. Also give characteristics of the by products and feasibility of their actual use in respective products as a raw material.

19. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
20. Measures proposed to be taken for the work area ambient air quality monitoring as per Gujarat Factories Rules.
21. Copy of membership certificate from Common Environmental Infrastructure including the TSDF / Common Hazardous Waste Incineration facility for disposal of hazardous wastes to be generated from the proposed project. (If required.)
22. A detailed EMP including the protection and mitigation measures for preventing impacts on human health and environment as well as detailed monitoring plan with respect to various parameters and responsible head for the environmental management cell and environmental management cell proposed for implementation and monitoring of EMP.
23. A detailed Green Belt Development Program including annual budget, types & number of trees to be planted, area under green belt development [with map]; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the GIDC area and elsewhere.
24. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
25. Details of quantity of each hazardous chemical to be stored, Material of Construction of major hazardous chemical storage tanks, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals. How the manual handling of the hazardous chemicals will be minimized?
26. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed.
27. Specific safety details / provisions for various hazardous chemicals including solvents to be used in the process along with onsite emergency plan.
28. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
29. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
30. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.
31. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
32. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, mfg utility staff for safety related measures.
33. A tabular chart with index for point-wise compliance of above details.

The project shall be appraised on satisfactory submission of the above.

27	Shree Arihant Dyechem	Plot No.8107,Road No.81,Sachin GIDC,Sachin,Surat	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Shree Arihant Dyechem (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/3183/2015 dated 16/10/2015.

Project status: New/Expansion

Project / Activity Details:

This unit is engaged in manufacturing of Dyes Intermediates and now proposes for expansion as tabulated below:

Sr. No.	Product Name	Existing (MTPA)	Proposed Total (MTPA)
1	Gama Acid	0	144
	J-Acid	0	
2	PNCBOSA	0	180
	PCOSA	0	
	ONCBSA	216	
3	Schaeffer's Acid	108	240
	Bronner's Acid	0	
4	G - Salt	216	672
5	Amido G - Salt	180	180
6	R - Complex (By Product)	72	168
7	R - Salt	0	168
8	K - Acid	180	180
9	NMJ Acid	36	36
10	Meta Urido Acid	0	120
11	EBAMSA	0	180
	4-NAPSA	120	
12	2 R Acid	0	24
13	Hypo Solution	0	600
14	Potassium Sulphate / Ammonium Sulphate (by product)	0	600
15	Ferrous Sulphate (by product)	0	600
16	Sunset Yellow FCF	0	48
17	Maa Base (Fast Yellow P G Base)	0	48

18	Chocolate Brown HT	0	48
19	Golden Yellow FG/R	0	48
20	Pronceau 4 R	0	180
21	Carmoisine	0	180
22	Amaranth	0	138
23	Erytrosine	0	28.8
24	Solvent Green-7	0	30
25	Tri Nony Phenyl Phosphite (TNPP)	0	180
26	Tri Phenyl Phosphite (TPP)	0	180
27	Di Iso Teryl Phenyl Phosphite (DIPP)	0	180
28	Di Phenyl Sulphone *	120	- 120
29	Sulfo Tobias Acid *	36	- 36
30	OAPSA *	144	- 144
	TOTAL	**1428**	**5080.8**

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 2972 sq. m & unit has proposed 980.76 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs. 2.19 Crores. Fresh water requirement after proposed expansion will be increased from 15 KL/day to 45 KL/day which will be supplied by the GIDC. Wastewater generation after the expansion will be increased from 13.1 KL/day to 34.5 KL/day [industrial + 1.8 KL/day domestic]. Industrial effluent (32.7KL/day) will be segregated as dilute stream and concentrated stream waste water. Dilute stream w/w will be treated in primary treatment plant within premises and sent to CETP of GECL-Sachin and concentrated stream effluent will be directly sent to common MEE of MEPPL. Domestic waste water will be disposed off into septic tank/soak pit system. At present wood (100 kg/day) is used in one Boiler (0.3 TPH). One DG set (125 KVA) is provided as a stand-by facility. Unit has proposed one TFH (3 Lac Kcal/hr) with Bag filter as APCM. Coal/Lignite/Bio-Coal will be used as a fuel. Wet scrubbing system is provided with existing Reaction vessels and Isolator. Unit has proposed NH_3 recovery system and wet scrubber with Reaction vessels. Hazardous waste to be generated are ETP waste (91 MT/Year), Discarded containers (40 MT/Year), Used Oil (0.0825 MT/Year), Spent catalyst (14.5 MT/Year), MEE salt (65 MT/year), spent Sulphuric acid (347 MT/Year), Sodium Bi-sulphite solution (94 MT/Year), Dilute HCl (7.2 MT/Year).

Observations/Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the treatability of the existing as well as proposed products, Committee observed that most of the products are having high pollution potential & generation of spent acid and the details submitted regarding waste water/spent acid management is not adequate. Committee noted that GIDC-Sachin is facing illegal disposal of spent acid and concentrated effluent in present

scenario. While discussing about the management of spent acid, Committee noted that the exact quantity of spent acid generation and its management is not properly addressed. On asking about spent acid management, PP could not reply satisfactorily. After detailed deliberation, Project proponent was asked to submit the revised proposal with sound environment management plan (EMP). After detailed deliberation on various aspects of the project, it was unanimously decided to consider the project for TOR/Scoping only after submission of the following:

1. Revised proposal with Revised Form-1, PFR & relevant details.
2. List of products to be removed from existing list of products with proper justification.
3. Product wise waste water generation in KL/day (Dilute stream, concentrated stream, spent acid generation etc.), its Characteristics and its disposal method.

28	Aromatics (India) Pvt. Ltd (LABSA)	334, Phese-2 ,GGDC-GIDC Industrial Estate	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Aromatics (India) Pvt. Ltd (LABSA) (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/3377/2015 dated 28/10/52015.

Project status: New/Expansion

Project / Activity Details:

This is a new unit proposes the manufacturing of following items.

Sr. no.	Name of the Products	Quantity MT/Month
1	Linear Alkyl Benzene Sulphonic Acid (LABSA)	3000
By-Product		
2	Sulphuric Acid (75 to 80 %)	2436

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 11050 sq. m & unit has proposed 3683 sq. m area for the green belt development/Tree plantation. Expected project cost is Rs.2.95 Crores. Total water consumption for proposed project will be 23.9 KL/day (1.5 KL for Domestic, 2 KL for Gardening, 20.4 KL for Industrial purpose, which will be sourced from GIDC water supply. There will be no Industrial waste water generation from the manufacturing process. Generated waste water from cooling blow down will be re-used in process. Domestic waste water (1.5 KL/day) will be disposed off into soak pit system. There will be no process as well as flue gas emission from the proposed project. Unit has proposed one DG set (125 KVA) in which HSD (20 Lit./hr) will be used as fuel.Hazardous waste generated from the manufacturing activity will be Discarded containers/Bags/Liners and used oil. Generated spent acid will be sold out to actual consumers.

Observations/Discussions:

Technical presentation made during the meeting by project proponent. While discussing about the management of Spent sulphuric acid, PP informed that they will send it to actual user units

namely M/s: Rama Phosphate and M/s: RCF located at Udaipur. Committee felt that unit should not be allowed to send their spent acid to Udaipur which is located at a long distance in Rajasthan state. PP was asked to explore the possibility to consume spent acid within premises to convert it into valuable product instead of sending it outside. On asking about year of establishment of GIDC Mithi Rohar, PP informed that the said GIDC was established before the EIA Notification 2006. Committee asked to submit the relevant document showing establishment of GIDC. The project proponent requested to categorize the project as B2 based on the low pollution potential of the project and its location in the industrial estate of GIDC-Mithi Rohar. The request for categorizing the project as B2 was considered by the committee and the following additional information was sought for appraisal of the project.

1. Copy of plot holding certificate obtained from GIDC Mithi Rohar.
2. Document showing GIDC Mithi-Rohar is established before 14.09.2006.
3. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
4. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities.
5. Chemical name of each proposed product to be manufactured. Details on end use of each product.
6. Quantity and quality of spent sulfuric acid to be generated from the process of LABSA and its complete Management plan including its end use along with the name and address of local end consumers to whom the spent acid will be sold. Copies of agreement / MoU / letter of intent showing their willingness to purchase said by-product from the proposed project. Submit detailed feasibility report to reuse spent sulphuric acid in manufacturing process of respective product at consumers end. Submit copy of CC&A & compliance report of end consumer units.
7. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
8. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
9. Explore the possibility of (1) reuse / recycle of spent sulphuric acid within premises to convert it into valuable product instead of sending it to actual end users and (2) other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
10. Qualitative & quantitative analysis of each cooling tower blow down, washing effluent etc. to be generated from the manufacturing process along with mass balance. Submit feasibility report to reuse waste water in to process.
11. Action plan for complete Zero Liquid Disposal (ZLD).
12. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
13. Impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
14. Undertaking stating that there will be no process gaseous emission and no flue gas

emission from the proposed project.

15. Specific details regarding the sources of fugitive emission along with its quantification and proposed measures to control it.
16. Details on management of the hazardous wastes including Spent sulphuric acid to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
17. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
18. Permission from PESO, Nagpur for storage of toxic chemicals. (If applicable).
19. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
20. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
21. MSDS of all the products and raw materials.
22. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
23. Details of quantity of each hazardous chemical to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?
24. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
25. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
26. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.

27. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
28. A tabular chart with index for point-wise compliance of above additional information sought.

The project shall be appraised on satisfactory submission of the above.

29	Sainath Industries	Plot no: 3529, Phase-4, GIDC- Chhatral, Ta.: Kalol, Dist: Gandhinagar	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Sainath Industries (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/3380/2015 dated 28/10/2015.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of Synthetic Organic Chemicals (Dye-Intermediates) as tabulated below:

Sr. no.	Name of the Products	Quantity MT/Month
1	3,5 Di-Amino Benzoic Acid	15
2	Fast Blue B Base	1.5

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 989.88 sq. m & unit has proposed 120 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs. 0.5 Crores. Total water consumption for proposed project will be 5 KL/day (1 KL for Domestic, 0.5 KL for Gardening, 3.5 KL for Industrial purpose) which will be sourced from GIDC water supply. Industrial waste water generation will be 3.95 KL/day, which will be treated in proposed Primary treatment plant and treated waste water will be evaporated in evaporator to achieve Zero Liquid Discharge (ZLD). Domestic waste water (1 KL/day) will be disposed off into soak pit system. Unit has proposed to reuse 5.5 KL/day of Mother Liquor (ML) generated from filtration stage of the product 2,5 Di-Amino Benzoic Acid. Unit has proposed one steam Boiler (1 TPH) in which PNG (100 SCM/day) or LDO/FO (50 L/hr) will be used as a fuel. Unit has proposed one DG set (250 KVA) in which HSD (20 ltrs/hr) will be used as a fuel. Unit has proposed to provide 10 reactor vessels. PP presented that there will be no process gas emission from the proposed project. Electricity will be used as a fuel for Drying operation.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. During the meeting, Committee observed that PP has proposed two options for waste water disposal. They will achieve zero discharge by putting evaporator or they will send waste water to CETP of NEPL.

Committee felt that the waste water shall not be allowed to send outside the factory premises and PP was asked to achieve zero liquid discharge (ZLD). The project proponent requested for categorizing the project as B2 and to exempt them from carrying out detailed EIA study. Looking to the small scale of the project, technical aspects of the project, its location and the details presented during the meeting, after detailed elaboration, the project was categorized as B2 category project. Following additional information was sought from the project proponent for further appraisal:

1. Copy of plot holding certificate obtained from GIDC Chhatral.
2. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
3. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities.
4. Chemical name of each proposed product to be manufactured. Details on end use of each product.
5. Feasibility report to reuse 5 KL/day of ML generated from the filtration process considering characteristics of ML and technical justification.
6. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
7. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
8. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
9. Quality and quantity of waste water to be generated from the manufacturing process of each product to be manufactured along with mass balance.
10. Stream wise qualitative & quantitative analysis of each waste stream (including process water, cooling tower blow down, boiler blow down, washing effluent etc.) to be generated. Characteristics of untreated and treated wastewater. A detailed effluent treat ability study vis-à-vis the adequacy and efficacy of the treatment facilities proposed for the wastewater to be generated. The characteristic on which treatability is based shall also be stated.
11. Details of the ETP units including its capacity, size of each unit, retention time and other technical parameters.
12. Action plan for complete Zero Liquid Disposal (ZLD). Legal undertaking in this regard.
13. Technical details of proposed Evaporator including capacity, fuel to be used, adequacy etc. Techno-economical viability of the proposed evaporator. Control measures proposed for the evaporator in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.
14. Details of provisions to be made for complete evaporation of industrial effluent. Technical details of the evaporator including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required for the process etc.
15. Undertaking stating that a separate electric meter will be provided for the proposed ETP and Evaporator & logbook for operation of incinerator will be maintained.
16. Techno-economic viability of the effluent evaporation system to achieve zero discharge

should be justified in detail in terms of profit margin of per kg production of each product.

17. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
18. Impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.
19. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.
20. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
21. Membership of Common Environmental Infrastructure including TSDF, Common Incineration Facility, if any.
22. Complete Management plan for By-products/Spent acid to be generated, (if any) from the project including their quantity, quality, characteristics, end use etc. along with the name and address of end consumers to whom the by-product/spent acid will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-product from the proposed project.
23. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
24. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
25. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
26. Details of possibilities of occupational health hazards from the proposed manufacturing activities and proposed measures to prevent them.
27. Detailed risk assessment report including prediction of the worst-case scenario and maximum credible accident scenario along with damage distances and preparedness plan to combat such situation and risk mitigation measures. Vulnerable zone demarcation.
28. MSDS of all the products and raw materials.
29. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
30. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous

Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?

31. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
32. Specific safety details / provisions for various hazardous chemicals including solvents to be used in the process along with onsite emergency plan.
33. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
34. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
35. A detailed Green Belt Development Program including annual budget, types & number of trees to be planted, area under green belt development [with map]; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the GIDC area and elsewhere.
36. A tabular chart with index for point-wise compliance of above additional information sought.

The project shall be appraised only after satisfactory submission of the above mentioned additional information.

30	Pawan Interchem Industries	Plot.no. A-2/2403, Chemical Zone, GIDC-Sarigam, Ta.: Umbergaon, Dist.: Valsad.	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Pawan Interchem Industries (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/3504/2015 dated 28/10/2015.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of following items.

Sr. no.	Products Name	Quantity (MT/Month)
1*	**A. Synthetic disperse dyes** Yellow series (i.e. 4 GLS, 7GLS, SGLS etc...)/ Red series (i.e. F3BS, 2B, 6B)/ Scarlet series (i.e. RR, 3R, BS, GS)/ Navy. Blue series (i.e. 2GDN, DBR, EXNS, GSL)/ Brown series & other dyes	60
	Or	
	B. Organic Pigments (Pigment Powders ,Pigment Emulsion & Micro Fine paste) Yellow 2G, Golden Yellow RM(0.5 G), Orange 5 G Red GR & Red BBJ(R-122) ,Red wine CB (Red-32)	

	Blue B(Blue 15) ,Turquoise Blue B ,Magenta Pink R (Red 146) ,Violet –R (Violet 23) ,Green B (Green 7)	
	Or	
	C. Food Colour (EOSIN, URANINE, ACID BLACK PN, CARMOISINE, ERYTHROSINE, CHOCOLATE BR HT, SOLVANT GREEN, etc.)	
2	**Dispersing Agent naphthalene** (powder, Liquid & Liq. Phenol base)	100
3	**Dye Intermediates** (Coupler-8/12/9/2EP etc.)	30
	Total	190
Note:* At Sr. no.1, the unit will manufacture either any one product out of products (A or B or C) with total qty. not exceeding 60 MT/Month or cumulative qty. of from A, B or C products not exceeding 60 MT/Month.		

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 1816.36 sq. m & unit has proposed 500 sq mtr area for the green belt development/Tree plantation. Expected project cost is Rs.3.10 Crores. Total water consumption for proposed project will be 23 KL/day (2 KL for Domestic, 1 KL for Gardening, 20 KL for industrial purpose) which will be sourced from GIDC water supply. Industrial waste water generation will be 15.95 KL/day, which will be treated in proposed ETP having capacity 20 KL/day and after treatment effluent will be sent to CETP-Sarigam for further treatment and sea disposal. It is proposed to install one steam Boiler (Cap. 0.2 TPH each) and one TFH (2 Lac Kcal/hr). Natural gas (35 SCM/hr) will be used as a fuel for Boiler and TFH. Unit has proposed one DG set (75 KVA) in which HSD (15 ltrs/hr) will be used as fuel. Unit has proposed wet scrubber as APCM for Spray dryer unit. No process gas emission is envisaged. Hazardous waste generated from the manufacturing activity will be ETP sludge (15 MT/Year), Discarded containers/Bags/Liners (2500 no.s/Year) and used oil. ETP waste will be disposed off at the nearby common TSDF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized recyclers. Used oil will be sold only to the registered recyclers.

Observations & Discussions:

Technical presentation made during the meeting by project proponent. Committee noted that PP has mentioned short form of some products, raw materials and also used word “etc.” in product list. PP was asked to give full name and chemical formula of all the raw materials and products. Safety aspects of Bromine/Iodine, Formaldehyde and other hazardous chemicals have been discussed. The committee desired to have MSDS of materials to be handled, information on storage of each hazardous chemical and safety measures thereof. After detailed discussion, the following additional Terms of Reference were prescribed for the EIA study to be done covering 5 Km radial distance from the project boundary.

1. Copy of plot holding certificate obtained from GIDC Sarigam.

2. Need for the proposed expansion should be justified in detail.
3. Demarcation of proposed expansion activities in lay out of the existing premises.
4. Exact details about additional infrastructural facilities, plant machineries etc. required for the proposed expansion.
5. Detailed manufacturing process along with chemical reactions and mass balance (including reuse-recycle, if any) for each product to be manufactured. Details on end use of each product.
6. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
7. Give full name and chemical formula of all the raw materials and products.
8. Undertaking regarding the proposed products are not covered under the Pesticides industry and pesticide specific intermediates.
9. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the proposed expansion. Copy of permission obtained from GIDC for additional water supply.
10. Water consumption and consumption of each raw material per MT of each product.
11. Water balance diagram (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream to be generated. A detailed treatability study vis-à-vis the adequacy and efficacy of the treatment facilities proposed for the wastewater to be generated.
12. Characteristics of the combined effluent and treated water to be sent to CETP Sarigam with reference to the GPCB inlet norms.
13. Complete waste water management plan for existing as well as proposed production. Detailed effluent treatment scheme and disposal method.
14. Technical details of the ETP including size of each unit, retention time etc. including modifications / up gradation to be done in existing ETP to take care of increased effluent quantity along with its adequacy report. Provision of online continuous pH meter, TOC analyser and flow meter at the final outlet of the ETP with an arrangement to reflect the results on company's server, which can be accessed by the GPCB on real time basis along with the time bound program for installation of the same.
15. Details of CETP- Sarigam including (1) Total capacity of the CETP (2) Total booked capacity and actual load received at present (Qualitative and Quantitative) (3) CETP Up gradation scheme, if any (4) Last 3 years analysis reports of GPCB for Inlet and outlet of CETP (5) Spare capacity of CETP with treatability and feasibility report. (6) Recommendations and suggestions of the last two Environment Audit reports of CETP-Sarigam and its compliance report.
16. Plan for management and disposal of waste streams to be generated from spillage, leakages, occasional reactor washing and exhausted media from Scrubber etc.
17. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
18. One season site-specific meteorological data including temperature, relative humidity, hourly wind speed and direction and rainfall shall be provided. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 5 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude

in order to identify mitigation measures.

19. One complete season AAQ data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards (NAAQS) and project specific parameters. The location of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
20. Modelling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modelling should be provided. The air quality contours may be shown on location map clearly indicating the location of project site, habitation, sensitive receptors, if any. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modelling should be superimposed on satellite image / geographical area map.
21. Details of availability of Bio-Coal and management of Bio-Coal availability during monsoon season.
22. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate emission from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.
23. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized.
24. Explore the possibilities for co-processing of the Hazardous waste/Solid waste prior to disposal into TSDF/CHWIF.
25. Methodology of de-contamination and disposal of discarded containers and its record keeping.
26. Membership of Common Environmental Infrastructure including CETP, TSDF, Common Hazardous Waste Incineration Facility (CHWIF) along with an assessment to accommodate the additional quantity of wastes to be generated.
27. Complete Management plan for By-products/spent acid to be generated, (if any) from the project including their quantity, quality, characteristics, end use etc. along with the name and address of end consumers to whom the by-product will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-products/spent acids from the proposed project.
28. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
29. Data on air emissions, wastewater generation and solid / hazardous waste generation and management for the existing plant should also be incorporated. (Comparative data in

tabular format).

30. Details of measures proposed for the noise pollution abatement and its monitoring.
31. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
32. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
33. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment (PPE) to be provided to the workers. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical check up of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
34. MSDS of all the products and raw materials to be used.
35. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impact.
36. Details of quantity of each hazardous chemical to be stored, material of construction of major hazardous chemical storage tanks, threshold storage quantity as per schedules of Manufacture, Storage & Import of Hazardous Chemicals (MSIHC) Rules of major hazardous chemicals.
37. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
38. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the map clearly showing which of the facilities and surrounding units would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
39. Details of fire fighting system including provision for flame detectors, temperature actuated heat detectors with alarms, automatic sprinkler system, location of fire water tanks & capacity, separate power system for fire fighting, details of qualified and trained fire personnel & their job specifications, nearest fire station & time required to reach the proposed site. Submit line diagram of the fire hydrant network.
40. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
41. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
42. Copies of analysis report of the water samples of final outlet of ETP collected by GPCB (Last 3 years).

43. Consent to Establish, Consent to Operate orders obtained in past along with point wise compliance status of all the conditions stipulated therein.
44. Copy of Environmental Clearance obtained for the existing project and a certified report of the status of compliance of the conditions stipulated in the environmental clearance for the existing operation of the project by the Regional Office of the MoEF.
45. Records of any legal breach of Environmental laws i.e. details of show- cause notices, closure notices etc. served by the GPCB to the existing unit in last five years and actions taken then after for prevention of pollution.
46. Details of fatal / non-fatal accidents, loss of life or man hours, if any, occurred in the existing unit in last three years and measures proposed to be taken for avoiding reoccurrence of such accidents in future.
47. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report. (b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
48. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions? Details of this system may be given.
49. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
50. Compliance of the MoEF's OM dated 04/08/2009 and 05/10/2011 regarding compliance of TOR prescribed & factual correctness of the data submitted in the EIA report, the names of experts associated with / involved in the preparation of the EIA report and the ownership of the EIA report by the Project proponent.
51. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
52. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for Synthetic Organic Chemical industry shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.

31	Meridian Chem Bond Pvt. Ltd.	Plot no: C - 378, 379 & 380, GIDC-Saykha, Dist: Bharuch	Screening & Scoping

Project / Activity No.: 5(f)

- M/s: Meridian Chem Bond Pvt. Ltd (herein after Project Proponent – PP) has submitted application vide their proposal no. SIA/GJ/IND2/3815/2015 dated 03/11/2015.

Project status: New

Project / Activity Details:

This is a new unit proposes the manufacturing of various Synthetic Organic Chemicals with

total production capacity 15318 MT/Month as tabulated below:

Sr. No.	Name of Product	Capacity (MT/Month)
1.	Mono Chloro Acetic Acid (MCAA)	3,000
2.	Try ChloroAcetyle Chloride (TCAC)	1,500
3.	ChloroAcetyle Chloride (CAC)	750
4.	Sulphur Mono Chloride (SMC)	500
5.	Sodium Mono Chloro Acetate	500
6.	IsopropyleChloro Acetate	500
7.	Mono MethyleChloro Acetate	500
8.	Chlorinated parafin wax	2,000
9.	(a) Benzal Chloride	1,068
	(b) Benzyl Chloride	
	(c) Benzo Tri Chloride	
10.	Benzaldehyde	500
11.	(a) Ortho Nitro Chloro Benzene (ONCB)	1,000
	(b) Para Nitro Chloro Benzene (PNCB)	
12.	Meta Nitro Chloro Benzene (MNCB)	500
13.	2,4-dichlorophenoxyacetic acid (2-4 D Acid)	1,000
14.	Glycine	1,000
15.	Glyphosate	1,000
	Total	**15,318**
	List of by-products	
1	Mother Liquor of MCAA	755
2	Hydrochloric Acid (30%)	14,460
3	Sodium Hypochlorite (NaOCl)	11,225
4	$NaHSO_3$ Solution	2,410
5	Spent Sulphuric Acid	875
6	High Boilers of Benzal Chloride	22
7	NH4Cl Solution (26%)	80
	Total	**29,827**

The project falls under Category B of project activity 5(f) as per the schedule of EIA Notification 2006.

Total plot area is 47458.53 sq. m & unit has proposed 10616.69 sq m area for the green belt development/Tree plantation. Expected project cost is Rs. 50.50 Crores. Total water requirement for proposed project will be 953 KL/day (9 KL/day for Domestic, 20 KL/day for

Gardening & 924 KL/day for Industrial) which will be sourced from GIDC water supply. Total industrial waste water generation will be 469 KL/day, which will be treated in ETP consists of Primary, Secondary, Tertiary unit followed by MEE and after achieving GPCB norms, treated waste water will be discharged into GIDC drainage.

Domestic waste water (7 KL/day) will be disposed off into soak pit system. Flue gas generation will be from Steam Boiler (10 TPH) and D.G. set (1250 KVA). Natural gas (75000 SCM/Month) or Lignite (170 MT/Month) or LDO (75 KL/Month) will be used as a fuel for Boiler. Diesel (50 Lit./hr) will be used as a fuel for DG set. Unit has proposed MDC followed by Bag filter as APCM for Boiler. Sets of scrubbing systems will be provided for control of HCL, NH3, SO2, CL2, NOx etc. from the different reaction vessels. Hazardous waste generated from the manufacturing activity will be ETP sludge (50 MT/Annum), Spent catalyst (9.23 MT/Annum), Distillation residue (280 MT/Annum), High boilers of Benzal Chloride (140 MT/Annum), Discarded containers/Bags/Liners (5 MT/Annum) and Used oil (0.6 KL/Annum). ETP waste & MEE salt will be disposed off at the nearby common TSDF. Distillation residue will be sent to Cement industries for Co-processing or disposal by CHWIF. High Boilers of Benzal Chloride will be sold to end-users or sent for co-processing at cement industry or disposed to CHWIF. Spent catalyst will be sold out to authorised recyclers or disposed to CHWIF. Discarded barrels / containers / bags / liners will be either reused or returned back to suppliers or sold only to the authorized vendors after decontamination. Used oil will be sold only to the registered recyclers.

Observations / Discussion:

Technical presentation by the PP included general information, details of products and raw materials, Waste generation, hazards & control, analysis of pollution parameters before and after treatment, resource consumption and conservation, Risk estimation etc. While discussing about the waste water treatment and its disposal, committee felt that in absence of basic infrastructure like drainage system and Common effluent treatment facilities, unit shall adopt Zero Liquid Discharge (ZLD) concept. PP was agreed upon the adoption of ZLD concept. However, they have requested to permit them to discharge the partially treated effluent to CETP of Saykha whenever it comes in existence. Committee informed that the request can be considered only after the setting up of the Common facilities/CETP and its terms & conditions. Committee emphasized on sound management of by-products and hazardous waste to be generated from the proposed activities and asked to reuse or consume entire quantity of Spent HCl and Spent sulphuric acid within premises to convert into valuable products instead of sending such spent acids to outside premises. Safety aspects of Chlorine gas, Sulphuric Acid, Toluene, Nitro Benzene, Ammonia gas etc. have been discussed. The committee desired to have MSDS of materials to be handled, information on storage of each hazardous chemical and safety measures thereof. Occupational health related issues due to toxic chemicals have been discussed and committee asked to provide necessary Personal Protective Equipments [PPEs] and requisite first aid measures. After deliberation on various aspects, following additional TOR was prescribed for the EIA study covering 10 km radius of the project boundary.

1. Copy of plot holding certificate obtained from GIDC Saykha.

2. Present land use pattern of the study area shall be given based on satellite imagery.
3. Layout plan of the factory premises. Provision of separate entry & exit and adequate margin all round the periphery for unobstructed easy movement of the emergency vehicle / fire tenders without reversing back. Mark the same in the plant layout.
4. Technical details of the plant/s along with details on best available technologies (BAT), proposed technology and reasons for selecting the same.
5. Details of manufacturing process / operations of each product along with chemical reactions, mass balance, consumption of raw materials etc. Details on strategy for the implementation of cleaner production activities.
6. Chemical name of each proposed product to be manufactured. Details on end use of each product.
7. Give full name and chemical formula of all the raw materials and products.
8. Complete management plan for By-products/Spent acids to be generated, along with the name and address of end consumers to whom the by-product/s will be sold. Copies of agreement / MoU / letter of intent from them, showing their willingness to purchase said by-products/Spent acids from the proposed project.
9. Action plan to reuse or consume entire quantity of Spent HCl and Spent sulphuric acid within premises to convert into valuable products instead of sending such spent acids to outside premises.
10. Detailed mass balance and water balance (including reuse-recycle, if any) along with qualitative and quantitative analysis of the each waste stream from the processes.
11. Assessment of source of the water supply with adequacy of the same to meet with the requirements for the project. Permission obtained from the GIDC for supply of raw water. Undertaking stating that no bore well shall be dug within the premises.
12. Explore the possibility of reuse / recycle and other cleaner production options for reduction of wastes. Details of methods to be adopted for the water conservation.
13. Qualitative and quantitative analysis of waste water to be generated from the manufacturing process of each product to be manufactured along with mass balance.
14. Segregation of waste streams and details on specific treatment and disposal of each stream.
15. Action plan for 'Zero' discharge of effluent shall be included. Legal undertaking in this regard shall be submitted.
16. Details of ETP including dimensions of each unit along with schematic flow diagram. Inlet, transitional and treated effluent qualities with specific efficiency of each treatment unit in reduction in respect of all concerned/regulated environmental parameters. Inlet effluent quality should be based on worst case scenario considering production of most polluting products that can be manufactured in the plant concurrently.
17. Technical details of MEE including evaporation capacity, steam required for evaporation, adequacy of the proposed boiler to supply steam for evaporation in addition to the steam required for the process etc. Techno-economical viability of the evaporation system. Control measures proposed for the evaporation system in order to avoid/reduce gaseous emission/VOC from evaporation of industrial effluent containing solvents & other chemicals.

18. Technical details of proposed Incinerator/Spray dryer including capacity, fuel to be used, adequacy etc. Techno-economical viability of the proposed Incinerator. Control measures proposed for the Incinerator in order to avoid/reduce gaseous emission/VOC from incineration of industrial effluent containing solvents & other chemicals.
19. Technical details of RO/NF system.
20. Undertaking stating that a separate electric meter will be provided for the ETP, RO, Incinerator/Spray Dryer & MEE.
21. Economical and technical viability of the effluent treatment system to achieve Zero Liquid Discharge (ZLD).
22. Proposal to provide and maintain separate electric meter, operational logbook for effluent treatment systems, online meters for monitoring of flow, pH, TOC/COD, etc.
23. Application wise break-up of effluent quantity to be recycled / reused in various applications like sprinkling for dust control and green belt development etc. In case of land application, details on availability of sufficient open land for utilizing effluent for plantation / gardening. How it will be ensured that treated effluent won't flow outside the premises linked with storm water during high rainy days.
24. Plans for management, collection and disposal of waste streams to be generated from spillage, leakages, vessel washing, used container washing etc. Measures proposed for preventing effluent discharge during unforeseen circumstances.
25. One season Site-specific micro-meteorological data using temperature, relative humidity, hourly wind speed and direction and rainfall should be incorporated.
26. Anticipated environmental impacts due to the proposed project/production may be evaluated for significance and based on corresponding likely impacts VECs (Valued Environmental Components) may be identified. Baseline studies may be conducted within the study area of 10 km for all the concerned/identified VECs and likely impacts will have to be assessed for their magnitude in order to identify mitigation measures.
27. One complete season base line ambient air quality data (except monsoon) to be given along with the dates of monitoring. The parameters to be covered shall be in accordance with the revised National Ambient Air Quality Standards as well as project specific parameters. Locations of the monitoring stations should be so decided so as to take into consideration the pre-dominant downwind direction, population zone and sensitive receptors. There should be at least one monitoring station in the upwind direction. There should be at least one monitoring station in the pre dominant downwind direction at a location where maximum ground level concentration is likely to occur.
28. Modeling indicating the likely impact on ambient air quality due to proposed activities. The details of model used and input parameters used for modeling should be provided. The air quality contours may be shown on location map clearly indicating the location of sensitive receptors, if any, and the habitation. The wind rose showing pre-dominant wind direction should also be indicated on the map. Impact due to vehicular movement shall also be included into the prediction using suitable model. Results of Air dispersion modeling should be superimposed on satellite Image / geographical area map.
29. Base line status of the noise environment, impact of noise on present environment due to the project and proposed measures for noise reduction including engineering controls.

30. Specific details of (i) Process gas emission from each unit process with its quantification, (ii) Air pollution Control Measures proposed for process gas emission, (iii) Adequacy of the air pollution control measures for process gas emission, measures to achieve the GPCB norms (iv) Details of the utilities required (v) Type and quantity of fuel to be used for each utility (vi) Flue gas emission rate from each utility (vii) Air Pollution Control Measures proposed to each of the utility along with its adequacy (viii) List the sources of fugitive emission along with its quantification and proposed measures to control it.
31. Details on management of the hazardous wastes to be generated from the project stating detail of storage area for each type of waste, its handling, its utilization and disposal etc. How the manual handling of the hazardous wastes will be minimized. Methodology of de-contamination and disposal of discarded containers and its record keeping.
32. Membership of Common Environmental Infrastructure including the TSDF / Common Incineration Facility, if any.
33. Name and quantity of each type of solvents to be used for proposed production. Details of solvent recovery system including mass balance, solvent loss, recovery efficiency feasibility of reusing the recovered solvents etc. for each type of solvent.
34. A detailed EMP including the protection and mitigation measures for impact on human health and environment as well as detailed monitoring plan and environmental management cell proposed for implementation and monitoring of EMP. The EMP should also include the concept of waste-minimization, recycle/reuse/recover techniques, energy conservation, and natural resource conservation. Total capital cost and recurring cost/annum earmarked for environment pollution control measures.
35. Permission from PESO, Nagpur for storage of solvents, other toxic chemicals, if any.
36. Occupational health impacts on the workers and mitigation measures proposed to avoid the human health hazards along with the personal protective equipment to be provided. Provision of industrial hygienist and monitoring of the occupational injury to workers as well as impact on the workers. Plan for periodic medical checkup of the workers exposed. Details of work place ambient air quality monitoring plan as per Gujarat Factories Rules.
37. Details on volatile organic compounds (VOCs) from the plant operations and occupational safety and health protection measures.
38. Risk assessment including prediction of the worst-case scenario and maximum credible accident scenarios should be carried out. The worst-case scenario should take into account the maximum inventory of storage at site at any point of time. The risk contours should be plotted on the plant layout map clearly showing which of the facilities would be affected in case of an accident taking place. Based on the same, proposed safeguard measures including On-Site / Off-Site Emergency Plan should be provided.
39. MSDS of all the products and raw materials.
40. Details of hazardous characteristics and toxicity of raw materials and products to be handled and the control measures proposed to ensure safety and avoid the human health impacts. This shall include the details of Antidotes also.
41. Details of quantity of each hazardous chemical (including solvents) to be stored, Material of Construction of major hazardous chemical storage tanks, dyke details, threshold storage quantity as per schedules of the Manufacture, Storage & Import of Hazardous

Chemicals Rules of major hazardous chemicals, size of the biggest storage tank to be provided for each raw material & product etc. How the manual handling of the hazardous chemicals will be minimized?

42. Details of the separate isolated storage area for flammable chemicals. Details of flame proof electrical fittings, DCP extinguishers and other safety measures proposed. Detailed fire control plan for flammable substances and processes showing hydrant pipeline network, provision of DG Sets, fire pumps, jockey pump, toxic gas detectors etc.
43. Submit checklist in the form of Do's & Don'ts of preventive maintenance, strengthening of HSE, manufacturing utility staff for safety related measures.
44. Detailed five year greenbelt development program including annual budget, types & number of trees to be planted, area under green belt development [with map], budgetary outlay; along with commitment of the management to carry out the tree plantation activities outside the premises at appropriate places in the nearby areas and elsewhere.
45. Detailed socio-economic development measures including community welfare program most useful in the project area for the overall improvement of the environment. Submit a detailed plan for social corporate responsibilities, with appropriate budgetary provisions for the next five years and activities proposed to be carried out; specific to the current demographic status of the area.
46. A tabular chart for the issues raised and addressed during public hearing/consultation and commitment of the project proponent on the same should be provided. An action plan to address the issues raised during public hearing and the necessary allocation of funds for the same should be provided.
47. (a) Does the company have a well laid down Environment Policy approved by its Board of Directors? If so, it may be detailed in the EIA report. (b). Does the Environment Policy prescribe for standard operating process / procedures to bring into focus any infringement / deviation / violation of the environmental or forest norms / conditions ? If so, it may be detailed in the EIA.
48. What is the hierarchical system or administrative order of the company to deal with the environmental issues and for ensuring compliance with the EC conditions. Details of this system may be given.
49. Does the company have a system of reporting of non compliances / violations of environmental norms to the Board of Directors of the company and / or shareholders or stakeholders at large? This reporting mechanism should be detailed in the EIA Report.
50. Phase wise project implementation schedule with bar chart and time frame, in terms of site development, infrastructure provision, EMS implementation etc.
51. Certificate of accreditation issued by the NABET, QCI to the environmental consultant should be incorporated in the EIA Report.
52. A tabular chart with index for point-wise compliance of above TORs.

The above mentioned project specific TORs/additional TORs and the model TORs available in the MoEF's sector specific EIA Manual for synthetic organic chemical industry shall be considered as generic TORs for preparation of the EIA report in addition to all the relevant information as per the generic structure of EIA given in Appendix III in the EIA Notification,

2006. The draft EIA report shall be submitted to the Gujarat Pollution Control Board for conducting the public consultation process as per the provisions of the EIA Notification, 2006. The project shall be appraised on receipt of the final EIA report.
The following proponents did not remain present during the meeting: 1. Rushil Décor Ltd , S.N.607,608,VILL:Mansa GIDC,Gandhinagar 2. Madhav Ply Industries , Plot No.375/2,3,4, Raurapura, Samarkha, Anand 3. Woodpulp Panel LLP Survey No.133/3, Pipaliya, Morbi,Gujarat 4. Divine Polymers Plot no .2, Nilkanth Industrial Eatate, Village - Dhanot, ,Ta -Kalol ,Dist – Gandhinagar 5. M/s Alliance Chemicals Plot No. C-156, Ta. Dahej Ph-1, Vagra, Dist. Bharuch, It was decided to call them in one of the upcoming meetings of SEAC.

Meeting ended with thanks to the Chair and the Members.

Minutes approved by:

1.	Shri T. P. Singh, Chairman, SEAC.	
2.	Shri V. C. Soni, Vice Chairman, SEAC.	
3.	Dr. V. K. Jain, Member, SEAC.	
4.	Shri R. J. Shah, Member, SEAC.	
5.	Shri V. N. Patel, Member, SEAC.	
6.	Shri Hardik Shah, Secretary, SEAC.	