

APPENDIX I
(See paragraph – 6)
FORM 1

VI(a) “(I) Basic Information

Serial Number	Item	Details
1.	Name of the project/s	Subham Oils and Resins Private Limited
2.	S. No. in schedule	5(f)
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of wells to be drilled	Proposed Capacity – 1500 Tonnes of Alkyd Resin per Annum. Two (2) resin Kettle having capacity of 750 Tonnes/Annum ; 10 Tonnes/Kettle/batch considering 300working days /annum.
4.	New/Expansion/Modernization	New
5.	Existing Capacity/Area etc.	-
6.	Category of Project i.e. 'A' or 'B'	A
7.	Does it attract the specific condition? If Yes, please specify.	No
8.	Does it attract the specific condition? If Yes, please specify.	-
9.	Location	Village - Surjopur
	Plot/Survey/Khasra No.	J.L. No. 15, Plot No. 650/780, 636/781. 636/861
	Village	Surjopur, Mouza - Navarand
	Tehsil	Barackpore
	District	North 24 Parganas
	State	West Bengal
10.	Nearest railway station/airport along with distance in kms.	Railway station – Khardah; 4 km approx. from the project site. Airport – Dum Dum Air port (approx 10 km from the project site)
11.	Nearest Town, city, District Headquarters along with distance in kms.	Nearest Town/ City – Barackpore which is 5 km approx. Kolkata – 14 km approx. Dist. Headquarters – Barasat (approx 10km)
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	J.L. No. 15, Sewli Gram Panchayat Village – Surjopur, Mouza – Navarand Kolkata – 700 121, 24 Pgs (N). Phone : 8100 226 446

13.	Name of the applicant	Mr. sujit Kumar Modi
14.	Registered Address	183, Bangur Avenue, Block – B, Kolkata – 700 055
15.	Address for correspondence:	183, Bangur Avenue, Block – B, Kolkata – 700 055
	Name	Mr. Sujit Kumar Modi
	Designation (Owner/Partner/CEO)	Owner
	Address	183, Bangur Avenue, Block – B
	Pin Code	Kolkata – 700 055
	E-mail	sjtmodi@yahoo.co.in pscpl.env@gmail.com
	Telephone No.	8100 226 446/ 9339226446
	Fax No.	-
16	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	Village-District-State 1. No 2. 3.
17.	Interlinked Projects	No
18	Whether separate application of interlinked project has been submitted?	Not applicable
19.	If yes,date of submission	Not applicable
20.	If no,reason	Not applicable
21.	Whether the proposal involves approval/ clearance under: If yes, details of the same and their status to be given. (a) The Forest (Conservation)Act,1980 ? (b) The Wildlife (Protection) Act, 1972 ? (c) The C.R.Z. Notification, 1991 ?	No
22.	Whether there is any Government Order/Policy relevant/ relating to the site ?	No
23.	Forest land involved (hectares)	No
24.	Whether there is any litigation pending against the project and/or land in which the project is propose to be set up ? (a) Name of the Court. (b) Case No. (c) Orders/directions of the Court, if any and its relevance with the proposed project.	No

(II) Activity

1. Construction, operation or decommissioning of the Project involving actions, which will cause physical changes in the locality (topography, land use, changes in water bodies, etc.)

S. No.	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
1.1	Permanent or temporary change in land use, land cover or topography including increase in intensity of land use (with respect to local land use plan)	Yes	The proposed project will be located in the area at Sewli Gram Panchayat, Titagarh. The plant has acquired 0.66 shatak of Shali land (2711.39 sqmt.) under Navaranda mouza, Titagarh. Present landuse will be changed to “Bastu factory”. (Conversion Application has been attached in Appendix – 1)
1.2	Clearance of existing land, vegetation and buildings?	Yes	Applied for Conversion of land and No objection certificate from Sewli Gram Panchayat. (NOC paper has been attached in Appendix - 2)
1.3	Creation of new land uses?	Yes	New land use will be “Bastu factory”.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	Not applicable.
1.5	Construction works?	Yes	Construction of various buildings, sheds, roads and temporary shed for construction workers will be done inside the proposed premises.
1.6	Demolition works?	No	No demolition work will be needed.
1.7	Temporary sites used for construction works or housing of construction workers?	No	About 10 to 15 local workers will be engaged during construction work. So, no temporary sites/ housing used.
1.8	Above ground buildings, structures or earthworks including linear structures, cut And fill or excavations	Yes	Above ground construction will include buildings, sheds roads etc. Cutting, excavation and filling of soil will be carried out for the same and installing equipments. Plant lay out enclosed.

1.9	Underground works including mining or tunneling?	No	No mining or Tunnel proposed.
1.10	Reclamation works?	No	No reclamation proposed
1.11	Dredging?	No	No dredging required. Only land preparation and leveling.
1.12	Offshore structures?	No	No offshore structure envisaged.
1.13	Production and manufacturing processes?	Yes	<p>Production of 1500 Tonnes per annum of alkyd resins based on 300 working days and two shifts per day.</p> <p>Raw Materials at 100%:- Penta Erythritol –107.39 Tonne Phthalic Anhydride –183.02 Tonne Dry Qils –425.68 Tonne Rosin – 310.02 Tonne Glycerine – 37.14 Tonne Malic Anhydride – 18.39 Tonne M.T.O – 765.30 Tonne</p> <p>Two processes are used for the production. Single stage solvent process - The drying oil, polyalcohol and phthalic anhydride are converted simultaneously.</p> <p>Two stage solvent process monoglyceride is produced from drying oil and polyalcohol and in the second stage the monoglyceride is converted with phthalic anhydride.</p>
1.14	Facilities for storage of goods or materials?	Yes	<p>During construction stage the materials are storage inside the premises.</p> <p>During operational stage the Storage, Stock yards and shed for storage of raw materials and product will be envisaged.</p> <p>Storage for Raw material –100 sq.mtr. Solid waste storage area – 100 sq.mt.</p>
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>During construction stage Solid waste will be generated 20-30 kg/month and it will be reused for making road inside the premises.</p>

			<p>During operational stage 5-6 Kg/charging solid waste (approx) and from ETP sludge 2-2.5 Kg/day (approx) solid waste will be generated. These solid wastes will be given to the Govt. authorized agency- RAMKEY, Haldia, West Bengal.</p> <p>During operational stage the domestic water (240 lit/day) will be disposed through soak pit. The effluent water 40 lit/day will be disposed through E.T.P.</p>
1.16	Facilities for long term housing of operational workers?	No	There is no proposal for construction of any housing for workers.
1.17	New road, rail or sea traffic during construction or operation?	No	The site is well connected by road. No additional construction of road network required.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	The site is well connected with rail and road. No additional or new road, air or other transport infrastructure is required.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	There is no proposal for diversion or change in transportation routes.
1.20	New or diverted transmission lines or pipelines?	No	No change in either is envisaged.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	No change envisaged.
1.22	Stream crossings?	No	There is no stream crossing
1.23	Abstraction or transfers of water form ground or surface waters?	Yes	<p>Total water requirement will be about 400 Lit/day. Water requirement shall be met from underground source.</p> <p>Application letter for withdrawal of Ground water is attached in Appendix – 3.</p>
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	There will be no discharge of water and the storm water will be passed to the Rain water harvesting system. So no change is envisaged.

1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Required personnel and material for construction will be transported by road. The area has sufficient public and private transport infrastructure and hence no additional services and required.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Long term dismantling or decommissioning or restoration works not envisaged.
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	No decommissioning
1.28	Influx of people to an area in either temporarily or permanently?	Yes	There will be requirement of nearly 10-15 temporary workers during construction. During Operation there will be 13 nos. of employees to be required. Most of these workers will be local one.
1.29	Introduction of alien species?	No	Only native species of flora will be planted wherever required.
1.30	Loss of native species or genetic diversity?	No	As no clearing required and no introduction of alien species.
1.31	Any other actions?	No	-

2. Use of Natural resources for construction or operation of the Project (such as land, water, materials or energy, especially any resources which are non-renewable or in short supply):

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
2.1	Land especially undeveloped or agricultural land (ha)	Yes	The land is single crop agricultural of 0.66 shatak i.e., 2711.393 sq.mt and it will be converted in bastu factory.
2.2	Water (expected source & competing users) unit: KLD	Yes	An underground deep tube well to be installed for the requirement of water. The water requirement will be 400 lit/day. Water distribution system shall include 1. Potable water for drinking and domestic purpose. – 300 lit/day. 2. Water for cooling in process. – 200 lit/charging i.e., 50 lit/day as make up water. 3. For gardening – 50 lit/day.
2.3	Minerals (MT)	No	No Mineral will be required in process.
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	Main source of materials will be local manufacturers and suppliers. Expected source approximately Sand/Soil – 200 MT
2.5	Forests and timber (source – MT)	No	No use envisaged.
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Power will be required 22.5 KW from WBSEDCL. The application letter is given in Appendix – 4 For D.G (65 KVA) & Burner – fuel H.S.D will be required 200 lit/day. For Thermic Fluid Heater capacity 4 Lakhs Kilo Calorie – Furnace oil required 600 lits/ ***.
2.7	Any other natural resources (use appropriate standard units)	No	

3. Use, storage, transport, handling or production of substances or materials, which could be harmful to human health or the environment or raise concerns about actual or perceived risks to human health.

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities /rates, wherever possible) with source of information data
3.1	Use of substances or materials, which are hazardous (as per MSIHC rules) to human health or the environment (flora, fauna, and water supplies)	Yes	In this unit there will be use of Maleic anhydride (18.39 Tonne/Annum) which is hazardous as per MSHC rules, 1989, Sl. No. 352. However, necessary precaution for storage and handling of this chemical will be taken as per requirement. All other chemicals are not classified hazardous but necessary steps for its handling will be adopted.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	Project activities are not likely to cause changes in occurrence of disease or affect disease vector.
3.3	Affect the welfare of people e.g. by changing living conditions?	No	No habitation within project area. Hence no effect envisaged.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	No hospital/ school/ elderly house in the immediate vicinity. Hence no effect envisaged.
3.5	Any other causes	No	

4. Production of solid wastes during construction or operation or decommissioning (MT/month)

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates, wherever possible) with source of information data
4.1	Spoil, overburden or mine wastes	No	Not applicable
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Only domestic waste (2.5 Kg/month approx) discharge during operation and it will be given to panchayat Vat.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Very small quantity (30-35 Kg/month) of Hazardous wastes will be generated as solid waste which will be given to the Govt. authorized agency- RAMKEY, Haldia, West Bengal.
4.4	Other industrial process wastes	No	No other process waste as all waste will be recycled.
4.5	Surplus product	No	Nil, Only the product as detailed earlier.
4.6	Sewage sludge or other sludge from effluent treatment.	Yes	Sewage sludge (approx 300 lit/year) will be dislodging through Panchayat, Sludge from Effluent Treatment Plant will be generated. The quantity will be 60-75 Kg/month, which will be given to the Govt. authorized agency- RAMKEY, Haldia, West Bengal.
4.7	Construction or demolition wastes	Yes	During construction period the solid waste will be generated approx 20-30 Kg/month. All rejects will be reused
4.8	Redundant machinery or equipment	No	Machineries will be used only as required.
4.9	Contaminated soils or other materials	No	The generated solid waste will be kept in HDPE lined tank. There will be no contaminated soil or other materials.
4.10	Agricultural wastes	No	No. Agricultural waste will be generated.
4.11	Other solid wastes	No	No other solid waste generated.

5. Release of pollutants or any hazardous, toxic or noxious substances to air (Kg/hr)

S. No.	Information/Checklist confirmation	Yes/No	Details thereof (with Approximate quantities / rates, wherever possible) with source of information data
5.1	Emissions from combustion of fossil fuels from stationary or mobile sources.	Yes	<p>In process there will be requirement of heat which will be supplied by Thermic Fluid Heater where Furnace oil / HSD will be used as fuel. Furnace oil required 600 lits/***.</p> <p>As a result there will be emission due to burning of fuel and it will generate dust & SO₂.</p> <p>The mobile sources will be the vehicles which will move inside the factory premises during operation for unloading of raw material and loading of finished product.</p> <p>Proper stack height will be provided for dispersion of Air pollutants.</p>
5.2	Emissions from production processes	No	The production system will be totally closed system. So, no possibility of generation of any type of emission from the production process.
5.3	Emissions from materials handling including storage or transport	No	There will be no generation of dust emission during handling storage.
5.4	Emissions from construction activities including plant and equipment	No	There will be no generation of dust during Construction activity from equipment and vehicles.
5.5	Dust or odours from handling of materials including construction materials, sewage and waste	No	<p>There will be no significant dust generation during handling of materials and construction period.</p> <p>No significant odour will be generated from sewage and waste as the water will pass through soak pit.</p>
5.6	Emissions from incineration of waste	No	Not envisaged

5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	Not envisaged
5.8	Emissions from any other sources	No	From Diesel Generator (65 KVA) set due to combustion of H.S.D @ 200 lits/day (considering 150 days/annum). during power off. The stack will be provided at a height of 3.5 mt. from roof top of the DG room.

6. Generation of Noise and Vibration, and Emissions of Light and Heat:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
6.1	From operation of equipment e.g. engines, ventilation plant, crushers	No	No Noise will be generated from operation. There will be one 65 KVA Acoustic DG set. Therefore no significant noise will be generated.
6.2	From industrial or similar processes	No	Process activity is not likely to cause the generation of noise and vibration.
6.3	From construction or demolition	No	No construction or demolition activity generating considerable noise or vibration envisaged.
6.4	From blasting or piling	No	No blasting or piling will be done.
6.5	From construction or operational traffic	Yes	Only vehicles carrying Raw Materials and finished products may create some noise.
6.6	From lighting or cooling systems	No	No cooling system generating noise will be installed.
6.7	From any other sources	No	

7. Risks of contamination of land or water from releases of pollutants into the ground or into sewers, surface waters, groundwater, coastal waters or the sea:

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities / rates, wherever possible) with source of information data
7.1	From handling, storage, use or spillage of hazardous materials	No	No such risk envisaged as the hazardous waste will be stored in HDPE lined tank.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	The effluent water from process 200 lit/charging (i.e. 50 lit/day) will be taken into ETP. As a result there will be no risk of contamination of land or water from release of waste water. The Domestic waste water (240 lit/day) will be treated as per PHE norms.
7.3	By deposition of pollutants emitted to air into the land or into water	No	No deposition of dust and chemical fumes into the land due to closed operational system and fume condensed and finally back to system.
7.4	From any other sources	No	No any other sources.
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	As proper mitigative measure of dust control are incorporated.

8. Risk of accidents during construction or operation of the Project, which could affect human health or the environment

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with Approximate quantities / rates, wherever possible) with source of information data
8.1	From explosions, spillages, fires etc from storage, handling, use or production of hazardous substances	Yes	<p>Very small quantity of Hazardous wastes will be generated as solid waste which will be given to the Govt. authorized agency- RAMKEY, Haldia, West Bengal.</p> <p>All safety rules as laid down by concerned authorities will be complied.</p> <p>In case of accident Medical facilities will be available in Panihati Hospital (without 10 Km) through factory vehicles.</p> <p>Medical check-up of workers will be regularly done as per status.</p>
8.2	From any other causes	No	No other causes foreseen
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	Yes	Utmost care will be taken in basic designing of the plant to withstand the effect of any natural disasters. So no damage is envisaged for environment.

9. Factors which should be considered (such as consequential development) which could lead to environmental effects or the potential for cumulative impacts with other existing or planned activities in the locality

S.No.	Information/Checklist confirmation	Yes/No	Details thereof (with Approximate quantities / rates, wherever possible) with source of information data
9.1	<p>Lead to development of supporting facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.:</p> <ul style="list-style-type: none"> ▪ Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) ▪ housing development ▪ extractive industries ▪ supply industries ▪ other 	<p>Yes</p> <p>No</p> <p>No</p> <p>Yes</p> <p>Yes</p>	<p>Development of road and traffic density</p> <p>Some supply industries will be affected from this unit directly/indirectly. Direct/ Indirect employment will be generated.</p>
9.2	Lead to after-use of the site, which could have an impact on the environment	No	Not significant effect in environment, some beneficial effect regarding socio economic environment.
9.3	Set a precedent for later developments	No	As the entire product will be sold in the open market and the plant is situated in isolated area
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	There are industries situated in the surrounding area, which could account for cumulative effects. There are numbers of steel melting, brick field refractory unit around the proposed unit.

(III) Environmental Sensitivity

S. No.	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Nil	None notified within 15 km
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	River Hooghly is at a distance of about 5 KM from the site. There is a Wet land (Karnamad-habpur bill) 2 km from the site. There is no Coastal Zone, biosphere, mountains as per toposheet
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Nil	None notified within 15 km
4	Inland, coastal, marine or underground waters	Nil	None notified within 15 km
5	State, National boundaries	Nil	None notified within 15 km
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	NH-34, (Kolkata to Siliguri)	NH34 is at a distance of 3-4 Km.
7	Defence installations	Yes	A military / defense barrack is situated at Barackpore, which is 4-5 km from the proposed site.
8	Densely populated or built-up area	Barackpore, Kolkata	Proposed site is near Barackpore Kolkata which is within 5 Km.
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	Hospitals, schools	Number of renowned school (Barackpore Govt. School – 5 Km; Army school – 7 km, Ramkrishna Vidyamandir–3 Km), private and govt. Hospital (Army Hospital – 7 km, BRMS Hospital – 4.5 km) Panihati Hospital – 3 Km.

10	Areas containing important, high quality or scarce Resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	Hooghly river Fishery pond	River Hooghly is at a distance of 10 km. Fishery pond is located within 5 km.
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	No	In the nearby area few Steel Industries are in operation and Pollution Control norms are maintained.
12	Areas susceptible to natural hazard which could cause the project to present environmental Problems (<i>earthquakes, subsidence, landslides, erosion, Flooding or extreme or adverse climatic conditions</i>)	No	The proposed site is not susceptible to any natural Hazards. However necessary precautions for earthquake to be considered in the overall planning

(IV). Proposed Terms of Reference for EIA studies

^{VI(b)} “I hereby given undertaking that the data and information given in the application and enclosures are true to the best of my knowledge and belief and I am aware that if any part of the data and information submitted is found to be false or misleading at any stage, the project will be rejected and clearance give, if any to the project will be revoked at our risk and cost.”

Date: _____

Place: _____

Signature of the applicant.....

With Name and Full Address.....

(Project Proponent/Authorized Signatory).....

NOTE:

1. The projects involving clearance under Coastal Regulation Zone Notification, 1991 shall submit with the application a C.R.Z. map duly demarcated by one of the authorized agencies, showing the project activities, w.r.t. C.R.Z. (at the stage of TOR) and the recommendations of the State Coastal Zone Management Authority (at the stage of EC). Simultaneous action shall also be taken to obtain the requisite clearance under the provisions of the C.R.Z. Notification, 1991 for the activities to be located in the CRZ.
2. The projects to be located within 10 km of the National Parks, Sanctuaries, Biosphere Reserves, Migratory Corridors of Wile Animals, the project proponent shall submit the map duly authenticated by Chief Wildlife Warden showing these features vis-à-vis the project location and the recommendations or comments of the Chief Wildlife Warden thereon (at the stage of EC).”
3. All correspondence with the Ministry of Environment & Forests including submission of application for TOR/Environmental Clearance, subsequent clarifications, as may be required from time to time, participation in the EAC Meeting on behalf of the project proponent shall be made by the authorized signatory only. The authorized signatory should also submit a document in support of his claim of being and authorized signatory for the specific project.”
