

FORM 1

for

**Proposed Expansion of Steel Plant
along with Installation of Cement Plant**

at

**Village Dasna, Jamuria, P.O. Bahadurpur,
District Burdwan, West Bengal**

SUBMITTED TO
MINISTRY OF ENVIRONMENT & FORESTS,
GOVT. OF INDIA

Project Proponent

SHYAM SEL & POWER LTD.

S.S Chamber, 5, C.R Avenue, Kolkata-700 072

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
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FORM 1

(I) BASIC INFORMATION

S. No.	Item	Detail
1.	Name of the projects/s	Proposed expansion of Steel Plant along with installation of Cement Grinding Unit.
2.	S. No. in the schedule	3(a) & 3(b)
3.	Proposed capacity/ area /length/tonnage/ to/be handled/ command area/ lease area/ number of wells to be drilled	<p><u>PROPOSED UNITS:</u></p> <ul style="list-style-type: none"> • Pellet Plant: 1.2 MTPA • CRM Unit : 0.35 MTPA • Continuous Galvanising Line: 0.3 MTPA • Corrugation : 0.3 MTPA • Producer Gas Plant: 480 TPD or 75000Nm³/hour • Cement Grinding Unit: 1.2 MTPA <p>Project Area – 125 acres</p> <p>Capital Cost of the Project - Rs 1469.54 Crores</p>
4.	New/ Expansion/Modernization	Expansion
5.	Existing Capacity/ Area etc.	<p><u>EXISTING UNITS:</u></p> <ul style="list-style-type: none"> • Pellet Plant – 0.5 MTPA • DRI Plant – 2x100 TPD; 2x90 TPD • Induction Furnace – 2x18 T • Structural Mill – 48,000 TPA • Rolling Mill – 55,000 TPA • Ferro Alloys – 2x9 MVA; 2x4.5 MVA • Captive Power Plant – 21 MW <p><u>UNIT UNDER CONSTRUCTION (FOR WHICH EC FROM MoEF HAS ALREADY BEEN OBTAINED):</u></p> <ul style="list-style-type: none"> • Captive Power Plant – 43 MW with 135 TPH CFBC Boiler.
6.	Category of Projects i.e. 'A' or 'B'	A
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If yes, please specify.	No

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
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9.	Location	Latitude: 23°41'37"N Longitude:-87°7'14"E
	Plot/survey/Khasra No.	
	Village	Dasna
	Tehsil	P.S. Jamuria, P.O. Bahadurpur
	District	Burdwan
	State	West Bengal
10.	Nearest railway Station/airport along with distance in kms.	Raniganj Railway station – 10 km from the project site Netaji Subhash Chandra Bose International Airport, Kolkata: Around 178 km from the project site.
11.	Nearest Town, city, District Headquarters along with distance in kms.	<ul style="list-style-type: none"> • Raniganj Town – 9.0 km • Asansol City - 14.0 km
12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal addresses with telephone nos. to be given)	Village: Dhasna P.O Bhadurpur P.S Jamuria District Burdwan, West Bengal- 713362 Ph: 0341-6456062 Fax: 0341-2010111
13.	Name of the applicant	M/s Shyam Sel & Power Ltd.
14.	Registered Address	S.S Chamber, 5, C.R Avenue, Kolkata-700 072
15.	Address for correspondence :	M/s Shyam Sel & Power Ltd. S.S Chamber, 5, C.R Avenue, Kolkata-700 072
	Name	Brij Bhushan Agarwal
	Designation (Owner/Partner/CEO)	Managing Director
	Address	M/s Shyam Sel & Power Ltd. S.S Chamber, 5, C.R Avenue, Kolkata-700 072
	Pin Code	700 072
	E-mail	bbush@shyamgroup.com
	Telephone No.	+91 33-4011 3000
	Fax No.	+91 33-2285 2212
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	NIL
17.	Interlinked Projects	No
18.	Whether separate application of interlinked project has been submitted?	NA
19.	If yes, date of submission	NA
20.	If no, reason	NA
21.	Whether the proposal involves approval/clearance under: if yes, details of the	

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

	same and their status to be given. (a) The Forest (conversion) Act, 1980? (b) The Wildlife (Protection) Act, 1972? (c) The C.R.Z Notification, 1991?	No No 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 projects is purpose 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

* *Capacity corresponding to sectoral activity (such as production capacity for manufacturing, mining lease area and production capacity for mineral production, area for mineral exploration, length for linear transport infrastructure, generation capacity for power generation etc.)*

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

(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	<p>Land measuring 125 acres (non-agriculture and barren land) will be acquired for the project. The land is generally flat and does not come under flood zone. Said plot of land will be reformed / developed from its existing land use.</p> <p>This project will be developed following a land use plan, which will be made taking into consideration relevant guidelines / stipulations of the concerned Authorities.</p>
1.2	Clearance of existing land, vegetation and buildings?	Yes	Site clearing and preparation activities will involve removal of scanty vegetation on the proposed plant site.
1.3	Creation of new land uses?	Yes	Proposed project will be developed following a planned land-use plan. As far as possible attempts will be made to create minimum disturbance to the existing land-use of the neighborhood. However, a positive change in the land uses due to the proposed project is expected.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	-
1.5	Construction works?	Yes	The civil works for the construction and development of the proposed project include bulk earthworks; construction of factory sheds & utilities; internal roads & parking areas; drainage system; underground

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

			& overhead tanks etc.
1.6	Demolition works?	No	-
1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Suitable temporary accommodation for workers will be made within the project site.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Please refer Pre-Feasibility Report.
1.9	Underground works including mining or tunneling?	No	-
1.10	Reclamation works?	No	-
1.11	Dredging?	No	-
1.12	Offshore structures?	No	-
1.13	Production and manufacturing processes?	Yes	Please refer Pre-Feasibility Report.
1.14	Facilities for storage of goods or materials?	Yes	All construction materials will be handled through site store within the project boundary.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	Domestic wastewater will be treated in septic tank-soak pit system. Solid waste (dust as collected in the dedusting systems) from Pellet Plant will be used in the palletizing mix.
1.16	Facilities for long term housing of operational workers?	No	Most of the workers employed shall be from the neighbourhood.
1.17	New road, rail or sea traffic during construction or operation?	No	The site is well connected to main road way. No new road, rail or sea traffic during construction or operation.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	-
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	-
1.20	New or diverted transmission lines or pipelines?	No	-
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	-
1.22	Stream crossings?	No	-

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Daily water requirement of the proposed project will be around 990 m ³ /day, which will be sourced from Ajay river.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	-
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	The plant location has proper road and rail linkages. NH-2 is passing at 5.5 km w.r.t the plant site and the nearest railway station is Raniganj which is 10.0 km from the project site.
1.26	Long-term dismantling or decommissioning or restoration works?	No	-
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	-
1.28	Influx of people to an area in either temporarily or permanently?	Yes	During construction 600 persons will be employed. About 469 persons will get direct employment during the operation phase.
1.29	Introduction of alien species?	No	-
1.30	Loss of native species or genetic diversity?	No	-
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	Land measuring 125 acres, adjacent to the existing project site, will be purchased from the private land owners for the proposed project. The land is generally flat and does not come under flood zone. It does not have any human settlement.
2.2	Water (expected source & competing users) unit: KLD	Yes	Make up water requirement - 990 KLD Source – Ajay River

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

2.3	Minerals (MT)	Yes	Iron ore fines: 12,60,000 TPA Coal : 12,000 TPA Coke : 1800 TPA Bentonite : 6000 TPA Lime Stone : 7200 TPA Gypsum : 36,000 TPA
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	Will be procured mostly from local sources.
2.5	Forests and timber (source – MT)	No	-
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Total power requirement of the proposed units would be around 20 MW, which will be sourced from Captive Power Plant.
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)	No	-
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	-
3.3	Affect the welfare of people e.g. by changing living conditions?	No	-
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	-
3.5	Any other causes	No	-

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

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	-
4.2	Municipal waste (domestic and or commercial wastes)	Yes	Solid waste of domestic / commercial origin that would be generated in the Plant will be disposed of suitably in consultation with the concerned Civic body.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	No	-
4.4	Other industrial process wastes	Yes	Solid waste (dust as collected in the de-dusting systems) from Pellet Plant will be used in the palletizing mix.
4.5	Surplus product	No	-
4.6	Sewage sludge or other sludge from effluent treatment	No	-
4.7	Construction or demolition wastes	Yes	Will be utilized to develop the land.
4.8	Redundant machinery or equipment	No	-
4.9	Contaminated soils or other materials	No	-
4.10	Agricultural wastes	No	-
4.11	Other solid wastes	No	-

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	The main air pollutant from the proposed project will be particulate matter.
5.2	Emissions from production processes	Yes	As stated above
5.3	Emissions from materials handling including storage or transport	Yes	Main air pollutant will be particulate matter.
5.4	Emissions from construction activities including plant and equipment	Yes	Fugitive Emissions

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

5.5	Dust or odours from handling of materials including construction materials, sewage and waste	Yes	Water sprinkling system would be used during the period of the prevention of fugitive dust
5.6	Emissions from incineration of waste	No	N/A
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	N/A
5.8	Emissions from any other sources	No	N/A

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	Yes	The noise level below 75 dB(A) will be generated during operation of the proposed plant.
6.2	From industrial or similar processes	Yes	From Fans, Pumps etc.
6.3	From construction or demolition	Yes	During construction, noise below the level of 75 dB(A) will be generated.
6.4	From blasting or piling	Yes	Noise level of the order of 75 dB(A) will be generated during piling in the construction phase.
6.5	From construction or operational traffic	Yes	Due to vehicular movement, there will be slight increase in the ambient noise level.
6.6	From lighting or cooling systems	No	-
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	-
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	No	Domestic wastewater will be treated in septic tank-soak pit system.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Dust will be generated due to different project activities. Proper

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

			care will be taken to reduce dust emissions, wherever possible.
7.4	From any other sources	No	-
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	-

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	Compliance to Safety Rules and Disaster Management Plan would be done.
8.2	From any other causes	No	-
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. Floods, earthquakes, landslides, cloudburst etc)?	Yes	The area falls under Earthquake Zone II as per Indian Standard Seismic Zoning Map.

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	Lead to development of supporting utilities, ancillary development or development stimulated by the project which could have impact on the environment e.g.: <ul style="list-style-type: none"> • Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) • housing development • extractive industries • supply industries • other 	Yes	The project will have insignificant impact on the road network around the project site. The project shall enhance the socioeconomic status of the area by increasing the demand for housing, improving the employment.
9.2	Lead to after-use of the site, which could have an impact on the environment	No	-
9.3	Set a precedent for later developments	Yes	As mentioned against Sl. No. 9.1.
9.4	Have cumulative effects due to proximity to	No	-

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

	other existing or planned projects with similar effects		
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(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	None	-
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	None	-
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	None	-
4	Inland, coastal, marine or underground waters	Ajay River Damodar River	7.0 kms.(approx) from the Project Site 11.0 kms. (approx) from the Project Site
5	State, National boundaries	None	-
6	Routes or facilities used by the public for access to	None	-

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

	recreation or other tourist, pilgrim areas		
7	Defense installations	None	-
8	Densely populated or built-up area	Raniganj Asansol Jamuria	9 kms (approx). 14 kms (approx). 4.0 kms (approx).
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of worship, community facilities</i>)	<ul style="list-style-type: none"> • Mamudpur primary school • Ikrah Basanti Bijay High School, Jamuria (Ikrah, (Jamuria)) • Rajpur Nandi High School (Jamuria) • Vivekananda Vidya Mandir, Jamuria Bazar (Jamuria) • boring Danga High School, Boring danga (Jamuria) • Benali High School • Chinchuria Upendra Nath High School • Holy Convent School • parasea colliery high school (Bahula) • Nabason High school (Nabason, Birbhum) • Nazrul High School • Kalla Haripada High School (Asansol) • Damra High School • Kalla Haripada High School (Asansol) • Ushagram Girls' High School (Asansol) • central school (Ankita's School) (Asansol Silpanchal) • Searsole Raj High School Raniganj, (Raniganj) • Anjuman high school (Raniganj) • Raniganj High School (H.S) (Raniganj) 	<ul style="list-style-type: none"> 1.1 kms. (approx). 1.3 kms. (approx). 4.1 kms. (approx). 4.4 kms. (approx). 4.9 kms. (approx). 4.0 kms. (approx). 6.5 kms. (approx). 5.5 kms. (approx). 5.9 kms. (approx). 8.6 kms. (approx). 11 kms. (approx). 13 kms. (approx). 12 kms. (approx). 13 kms. (approx). 13 kms. (approx). 13 kms. (approx). 8.2 kms. (approx). 9.4 kms. (approx). 9.8 kms. (approx).

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

		<ul style="list-style-type: none"> • Baktarnagar High School • Kajora High School (H.S.) (ANDAL) • Hospital (Birkulti, Jamuria) • lions hospital (Jamuria) • anandalok hospital • Banshra ECL Hospital (Raniganj) • B N Agarwal Hospital (Raniganj) • Belunia Hospital • M.R.S.Hospital, Raniganj (Raniganj) • Kedarnath Memorial Hospital (Raniganj) 	<p>11 kms. (approx). 10 kms. (approx). 7.5 kms. (approx). 4.1 kms. (approx). 4.4 kms. (approx). 6.9 kms. (approx). 8.3 kms. (approx). 12 kms. (approx). 7.9 kms. (approx). 6.8 kms. (approx).</p>
10	Areas containing important, high quality or scarce resources (<i>ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals</i>)	<p style="text-align: center;">Ajay River</p> <p style="text-align: center;">Damodar River</p>	<p>7.0 km (approx.) 11.0 km (approx.)</p>
11	Areas already subjected to pollution or environmental damage. (<i>those where existing legal environmental standards are exceeded</i>)	None	-
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (<i>earthquakes, subsidence, landslides, erosion, flooding or extreme</i>	None	-

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

	<i>or adverse climatic conditions)</i>		
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(IV) Proposed Terms of Reference for EIA studies:

Scope of Work of EIA

The EIA shall cover the following:

Description of the proposed project:

The first task:” Description of the proposed project” forms a vital component of the Environmental Impact Assessment (EIA) as it provides the basis for evaluating the likely causes of Environmental Impacts.

Existing Environment and Baseline Conditions:

The base line assessment will be carried out to identify potentially sensitive and critical areas that may be affected by the project in an area of 10 km surrounding the project location. The critical and sensitive targets shall be plotted on land use map of project impact area.

The existing environment and baseline conditions will be established from:

- Analysis of secondary/ published data.
- Consultation with relevant statutory authorities, and Field visits for supplementation of missing gaps.

The key subject areas which the EIA shall address include Ecology and Nature conservation, Air quality, surface and water quality, soil quality, cultural heritage, landscape, land use, noise quality, etc in project impact area. Natural habitats like national parks, wildlife reserves, sanctuaries, sacred grove, protected areas, forests, wetlands, major rivers and waterways if any, shall also be identified and marked.

Assessment of Environmental Impacts:

Based upon the results from the review of existing information, field visits, site data collection and consultation, for each component of environment (physical, biological and socio economic) the positive, negative, direct and indirect, temporary and permanent impacts will be evaluated along with an indication of the degree of impact, i.e., whether the impact is significant, moderate, minor or negligible. The degree of impact shall also be quantified by using state of the art air quality impact prediction models based on ISCST3 algorithms.

Environment Management Plan and Mitigation Plan:

For each significant negative impact identified, specialist shall work closely with the engineering team/technical consultants to suggest practicable measures to avoid or

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

mitigate the impact. The mitigation of environmental impacts will be done by three mechanisms.

- Introduction of mitigation features through the engineering practices.
- Implementation of environmental controls during construction and operation.
- Legislative control involving compliance with Indian environmental laws.

The Environmental management plan shall include an estimate of capital and recurring costs of mitigation measures and will identify the institutional framework for implementation.

Monitoring Plan:

Having identified the significant environmental impacts that are likely to arise as a result of the project, the project team shall specify what monitoring is required during the various phases of the project cycle.

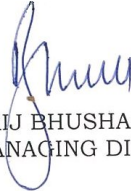
The monitoring plan will identify parameters and frequency of monitoring and responsible organization.

Shyam Sel & Power Ltd.	PROPOSED EXPANSION OF STEEL PLANT ALONG WITH INSTALLATION OF CEMENT GRINDING UNIT AT VILLAGE DASNA, JAMURIA, DISTRICT BURDWAN, WEST BENGAL	FORM - 1
------------------------	--	----------

I do hereby give this 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 given, if any to the project will be revoked at our risk and cost.

Date: 4th October, 2013

Place: Kolkata


BRIJU BHUSHAN AGARWAL
MANAGING DIRECTOR

Address:

M/s Shyam Sel & Power Ltd.
S.S Chamber, 5, C.R Avenue,
Kolkata-700 072

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 Wild 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 an authorized signatory for the specific project."