

M/s Jai Balaji Industries Ltd.	Proposed Expansion of Steel Plant by modification of 2x250 m ³ Blast Furnace, Installation of 3x4 MVA Ferro Alloys Plant, 0.6 MTPA Sinter Plant and 2,52,000 TPA DI Pipe Plant at the existing premises at Banskopa, P.O. Rajbandh, Tehsil & P.S. Kanksa, District Paschim Burdwan, West Bengal	FORM 1
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FORM-I

(I) Basic Information

Sl. No	Item	Details
1	Name of the project/s:	Proposed Expansion of Steel Plant by enhancement of existing 2X250 M³ Blast Furnace volume to 2X300 M³ Blast Furnace volume, installation of 3x4 MVA Ferro Alloys Plant, 0.6 MTPA Sinter Plant and 2,52,000 TPA DI Pipe Plant at the existing premises.
2	S. No. in the schedule	Item 3(a), Category A of the Schedule of the EIA Notification 2006.
3.	Proposed capacity/area/length/tonnage to be handled/command area/lease area/number of Wells to be drilled.	

The company has an operating steel iron plant at Banskopa, P.O.- Rajbandh, Tehsil & P.S. Kanksa, District – Paschim Bardhaman of West Bengal. Now, the company has decided for further expansion of its existing plant along with the change of product-mix & unit conversion, the details of which are presented in the following table:

Sl. No.	Facilities	Existing Capacity (TPA)	Proposed Expansion		Ultimate Capacity (TPA)	Remarks
			Existing Capacity Enhancement	New Installation		
1.	Iron ore beneficiation	6,00,000	-	-	6,00,000	-
2.	Pellet Plant	6,00,000	-	-	6,00,000	Being Dropped
3.	Sinter Plant	6,08,256	-	6,00,000	12,08,256	New Installation
4.	Blast Furnace	5,04,000 (2 X 250 M³)	1,08,500	-	6,12,500	Enhancement of Existing 2X250 M³ Blast Furnace volume to 2X300 M³ Blast Furnace.
6.	Pulverized Coal Injection (PCI)	97,200	-	-	97,200	-
7.	Desulpherization	5,04,000	-	-	5,04,000	-
8.	Electric Arc Furnace	4,50,000	-	-	4,50,000	-
10	Ferro Alloy Plant	-	-	3 X 4 MVA Submerged Arc Furnace	Ferro-Chrome – 39,600	New Installation

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10.	Oxygen Plant	58,320	-	-	58,320	-
11.	Lime Kiln	54,000	-	-	54,000	-
12.	Ductile Iron Pipe	2,52,000	-	2,52,000	5,04,000	New Installation
13.	Rolling Mill	6,00,000	-	-	6,00,000	-
14.	Producer Gas Plant	4x3000 M ³	-	-	4x3,000 M ³	-

The proposed expansion project will be installed on the available land within the existing plant premises, comprising total **72.84 hectares (180 acres)** of land.

Total Capital Cost of the Project: **Rs. 258.7 Crores (is Sinter plant cost included?)**

4.	New / Expansion / Modernization	Expansion
5.	Existing Capacity Area etc.	As mentioned in the above Table.
6.	Category of Project i.e.' A' or 'B'	Category "A" Project
7.	Does it attract the general condition? If yes, please specify.	No
8.	Does it attract the specific condition? If 'yes, please specify.	No
9.	Location	<ul style="list-style-type: none"> ➤ Latitude - 23°28'52.79"N to 23°29'36.17"N, ➤ Longitude - 87°21'57.33"E to 87°22'22.76"E ➤ Above Mean Sea Level (AMSL) of Project site: 65 m to 73 m.
	Plot / Survey / Khasra No.	-
	Village	Banskopa, P.O.Rajbandh, P.S. Kanksa
	Tehsil	Kanksa
	District	Paschim Burdwan
	State	West Bengal
10.	Nearest railway station/airport along with Distance in kms.	<ul style="list-style-type: none"> ➤ Durgapur Railway station – 5 km (approx.) from project site. ➤ Kazi Nazrul Islam Airport, Andal - 20 km (approx.) from project site. ➤ NSCBI Airport, Kolkata – 144 km (approx.) from the project site.
11.	Nearest Town, city, District Headquarters Along with distance in kms.	<ul style="list-style-type: none"> ➤ Durgapur Town - 10 km from project site. ➤ Asansol town (Dist. H.Q) - within 47 km from the project site.

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12.	Village Panchayats, Zilla Parishad, Municipal Corporation, Local body (complete postal Address with telephone nos. to be given)	Gopalpur Village Panchayet Address: Kanksa, District Paschim Bardhaman in West Bengal, Pincod-713211 (Durgapur Sagarbhanga Colony)
13.	Name of the applicant	M/s Jai Balaji Industries Limited
14.	Registered Address	M/s Jai Balaji Industries Limited 5, Bentinck Street, 1 st Floor, Kolkata-700 001
15.	Address for correspondence:	M/s Jai Balaji Industries Limited 5, Bentinck Street, 1 st Floor, Kolkata-700 001
	Name	Shri Gaurav Jajodia
	Designation (Owner/Partner/CEO)	Director
	Address	5, Bentinck Street, 1 st Floor, Kolkata-700 001
	Pin Code	700001
	E-mail	indrajit.ghosh@jaibalajigroup.com
	Telephone No.	Tele: 91-033-2248 9808
	Fax No.	Fax: 91-033-2243 0021
16.	Details of Alternative Sites examined, if any. Location of these sites should be shown on a topo sheet.	Not applicable as it is an existing industry.
17.	Interlinked Projects	No
18.	Whether separate application of interlinkedProject 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 sameand 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 No No
22.	Whether there is any Government Order/ Policy relevant/ relating to the site?	No
23.	Forest land involved (hectares)	No

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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
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- *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.,)*

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(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, land use plan)	Yes	<p>The proposed expansion project will be installed on the available land within the existing plant premises, comprising total 72.84 hectares (180 acres) of land. 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. Moreover, the planning of the project, development of green belt and other landscape on the proposed site would enhance the aesthetics of the area.</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?	No	The land is already earmarked for expansion within the premises of the existing steel plant - no new land use is envisaged.
1.4	Pre-construction investigations e.g. bore houses, soil testing?	No	-
1.5	Construction Work?	Yes	The civil works for the construction and development of the proposed expansion project include bulk earthworks; construction of factory sheds & utilities; internal roads & parking areas; drainage system; underground & overhead tanks etc.
1.6	Demolition Work?	No	-

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1.7	Temporary sites used for construction works or housing of construction workers?	Yes	Suitable accommodation for the construction workers, as required will be made within the project site.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	During construction earth works and excavation would be done for a short period of time. Please refer Techno Economical 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 Techno Economical Feasibility Report.
1.14	Facilities for storage of goods or materials?	Yes	All materials shall be stored in raw material storage yard and finished products within the project boundary.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p><u>Wastewater:</u> The plant will be designed as a zero discharge plant as far as the process effluents are concerned. The water will be re-circulated through cooling and treatment. The entire wastewater after necessary treatment will be recycled for various purposes inside the plant.</p> <p>Domestic wastewater will be treated in septic tank-soak pit system.</p> <p><u>Solid Waste:</u></p> <ul style="list-style-type: none"> ➤ Blast Furnace Slag will be used in Cement Plant. ➤ Dust collected from ESP of Sinter Plant will be reused for sinter making. The hearth layer is also reused in sinter machine. ➤ After metal recovery Fe-Cr Slag will be used in land filling / road construction purpose. ➤ Slag from Magnesium converter will be used for Land filling/Road Construction purpose. ➤ The Runner Scrap will be re-melted.

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			<ul style="list-style-type: none"> ➤ Magnesium dust will be used in Sinter Plant. ➤ Core sand in Casting Area as well as the same from the Annealing Furnace will be used in Land Filling and reclamation. ➤ Zinc Dust will be sold to SPCB certified Paint manufacturer.
1.16	Facilities for long term housing of operational workers?	No	Most of the workers employed shall be from nearby villages.
1.17	New road, rail or sea traffic during construction or operation?	No	The project site is located very close to highway (NH-2) & railway system (E-Rly, Howrah- New Delhi) and to the other main town and cities of the country. All plant & machinery can be transported by rail/ road.
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	-
1.23	Abstraction or transfers of water form ground or surface waters?	No	<p>No abstraction or transfer of ground/source water is envisaged in the proposed project.</p> <p>Total water demand (around 33 cum/hr) for the expansion programme will be supplied by Asansol Durgapur Development Authority (ADDA).</p>
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 project site is located very close to NH-2 and Durgapur railway station. As such, both these systems will be used for transportation of personnel & materials for construction and

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			operation of the plant.
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 or people to an area in either temporarily or permanently?	Yes	The estimated additional manpower requirement for the proposed expansion has been estimated to be 700.
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	The proposed expansion project will be installed on 180 acres of land within the existing plant premises. The land is generally flat and does not come under flood zone.
2.2	Water (expected source & competing users) Unit: KLD	Yes	The requirement of additional water for the expansion project has been estimated as around 33 m ³ /hr. which will be supplied by ADDA.
2.3	Minerals (MT)	Yes	Please refer Techno Economical Feasibility Report.
2.4	Construction material – stone, aggregates, and/ soil (expected source – MT)	Yes	The construction materials such as cement, MS, sand, aggregates etc. will be sourced locally.
2.5	Forests and timber (source – MT)	No	-
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	The requirement of the additional power for the expansion project is about 23.1 MVA. Part of demand will be fulfilled by in house power generation unit and balance power requirement for the plant is proposed to be met from DVC state grid through 220 kV double circuit

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			overhead line.
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 vectors (e.g. insect or water borne diseases)	No	-
3.3	Affect the welfare of people e.g. by changing living conditions?	No	The implementation of the proposed expansion project will increase the employment potential for locals with the improvement in their living conditions.
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	-

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	<ul style="list-style-type: none"> ➤ Blast Furnace Slag will be used in Cement Plant. ➤ Dust collected from ESP of Sinter Plant will be reused for

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			<p>sinter making. The hearth layer is also reused in sinter machine.</p> <ul style="list-style-type: none"> ➤ After metal recovery Fe-Cr Slag will be used in land filling / road construction purpose. ➤ Slag from Magnesium converter will be used for Land filling/Road Construction purpose. ➤ The Runner Scrap will be re-melted. ➤ Magnesium dust will be used in Sinter Plant. ➤ Core sand in Casting Area as well as the same from the Annealing Furnace will be used in Land Filling and reclamation. ➤ Zinc Dust will be sold to SPCB certified Paint manufacturer.
4.5	Surplus product	No	-
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Sewage sludge will be disposed off-site in consultation with the concerned local authority.
4.7	Construction or demolition wastes	No	Small quantity of construction waste only would be generated and same will be reused for filling.
4.8	Redundant machinery or equipment	No	-
4.9	Contaminated soils or other materials	No	-
4.10	Agricultural waste	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	No	-
5.2	Emissions from production processes	Yes	Main air pollutants from the process will include SO ₂ , NO _x , SPM etc. while particulate matter will be the main pollutant from non-process areas. Best possible control measures/ systems will be adopted to keep the environmental condition in work

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			zone and the surrounding areas of the plant acceptable to relevant statutory limits.
5.3	Emissions from materials handling including storage or transport	Yes	Suitable Dust suppression system will be used to control the fugitive emission during material handling.
5.4	Emissions from construction activities including plant and equipment	Yes	There will be some emissions from construction activities. However, these emissions will last for a very short period, it will be temporary and restricted within the plant boundary. Water sprinkling system will be used to control fugitive emissions during different construction activities.
5.5	Dust or odors from handling of materials including construction materials, sewage and waste	Yes	Dust is likely to be generated during excavation, back-filling and hauling operations along with transportation activities during the construction phase. This will be water sprinkled, and tarpaulin cover will be provided over stored raw material to reduce the dust emission.
5.6	Emissions from incineration of waste	No	-
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	-
5.8	Emissions from any other sources	No	-

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	Mainly Noise and vibration. However, all the machinery will be of highest standard of reputed make and will comply with national / international standards that take care of air and noise pollution

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			control / vibration control.
6.2	From industrial or similar processes	Yes	Noise and vibration
6.3	From construction or demolition	Yes	Best practices will be followed during all construction and installation activities to maintain noise level within permissible limit.
6.4	From blasting or piling	Yes	Traffic movement will generate sound. However, best practices will be followed to maintain noise level within 75 dB (A).
6.5	From construction or operational traffic	Yes	Best noise abatement measures will adopted to control noise from the cooling systems.
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	No effluent or treated sewage will be let out into any water body or land. Sewage will be treated in septic tank and soak pit.
7.3	By deposition of pollutants emitted to air into the land or into water	Yes	Dust will be generated to some extent due to different project activities. During the construction phase, proper care will be taken to reduce dust emission, 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	-

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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	No	-
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-III 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	<p>Lead to development of supporting, utilities, 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 	No	The project will have insignificant impact on the road network around the project site. The project is not expected to have any impact of concern on the power supply system, housing and wastes management system of the area.
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	Best practices will be followed during all construction and installation activities to maintain noise level within permissible limit.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	-

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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 the ecological, landscape, cultural or other related value	No	-
2	Areas which are important or sensitive for ecological reasons – Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Yes	River Damodar – 5 km from the project site.
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	-
4	Inland, coastal, marine or underground waters	Yes	River Damodar – 5 km from the project site.
5	State, National boundaries	No	-
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	-
7	Defence installations	No	-
8	Densely populated or built-up area	Yes	Durgapur – 10 km from the project site
9	Areas occupied by sensitive man-made land uses (<i>hospitals, schools, places of workshop, community facilities</i>)	Yes	<ul style="list-style-type: none"> ➤ Gopalpur Girls High School – 2.1 km ➤ HFC Higher Secondary School – 3.0 km ➤ Manisha Internaatinal School – 3.7 km ➤ Nadiha High School – 4.1 km ➤ Delhi Public Schhol – 4.5 km ➤ Durgapur AVB High School – 5.6 km ➤ NSHM College – 3.5 km ➤ Durgapur Institute of Polytechnic -4.1 km ➤ HFC Hospital – 3.4 km ➤ Gouri Devi Hospital – 3.5 km ➤ ESI Hospital – 5.0 km etc.
10	Areas containing important, high	Yes	River Damodar – 5 km from the

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	quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)		project site.
11	Areas already subjected to pollution or environmental damage, (those where existing legal environmental standards are exceeded)	No	-
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence, landslides, erosion, flooding or extreme or adverse climatic conditions)	No	-

IV Proposed Terms of Reference for EIA studies:

Refer Annexure.

M/s Jai Balaji Industries Ltd.	Proposed Expansion of Steel Plant by modification of 2x250 m ³ Blast Furnace, Installation of 3x4 MVA Ferro Alloys Plant, 0.6 MTPA Sinter Plant and 2,52,000 TPA DI Pipe Plant at the existing premises at Banskopa, P.O. Rajbandh, Tehsil & P.S. Kanksa, District Paschim Burdwan, West Bengal	FORM 1
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I hereby given undertaking that the data and information given in the application and enclosure 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: 15th December, 2018

Place: Kolkata



Gaurav Jajodia
Director

Address:

M/s Jai Balaji Industries Limited

5, Bentinck Street, 1st Floor,

Kolkata-700 001

NOTE:

1. The projects involving clearance under coastal Regulation zone Notification, 1991 shall submit with the application a CRZ 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 showing by chief wildlife warden showing these features vis-a-vis the project location and the Recommendation 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/Environment Clearances, 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.