

FORM – I

of

**Expansion of Singareni Thermal Power Plant
(From 1200 MW to 2000 MW by adding 1X800 MW)**

at

Pegadapalli Village, Jaipur Mandal, Mancherial District, Telangana State

Submitted to

**Ministry of Environment, Forest & Climate Change (MoEF&CC),
Government of India,
Indira Paryavaran Bhawan, Jorbagh,
Jorbagh Road, New Delhi**

**Project Consultant: M/s Ramky Enviro Services Private Ltd.,
Gachhibowli, Hyderabad, Telangana**



Project Proponent:



**THE SINGARENI COLLIERIES COMPANY LIMITED
(A Govt. Company)**

**P.O. Kothagudem Collieries – 507101
Bhadradri Kothagudem District, Telangana**

August 2017

“A” CATEGORY PROJECTS

(I) Basic Information

S. No	Item	Details
	Whether it is a violation case and application is being submitted under notification no. S.O.804(E) dated 14.03.2017?	No
1	Name of the Project /s Brief Summary of the project Proposal No. Project Cost (in Lacs)	Expansion of Singareni Thermal Power Plant (from 1200 MW to 2000 MW by adding 1x800 MW) Annexure – Brief Summary of the Project IA/TG/THE/67046/2017, dt.29.07.2017 Rs.587962
2	S.No. in the schedule Project Sector	1(d), Thermal Power Plants Thermal Projects
3	Proposed capacity /Area	1x800MW/ 127.31Ha
4	New / Expansion / Modernization Proposal No. MoEF&CC File number Uploaded EC letter	Expansion IA/TG/THE/27854/2009, J-13012/88/2008-IA.II(T), dt. 27.12.2010 Annexure - EC letter uploaded
5	Existing Capacity/area etc	2x600 MW /300.972 Ha
6	Location of the project	Pegadapalli Village, Jaipur Mandal, Mancherial Dist, Telangana State. Bounded between Latitude: 18 ⁰ 48' 30"N and 18 ⁰ 50' 35"N and Longitude: 79 ⁰ 34'00"E and 79 ⁰ 35'30"E.
4	Shape of the project land Uploaded GPS File Uploaded copy of survey of India Toposheet	Block (Polygon) Annexure-I-GPS File Annexure-II-Survey of India Toposheet
5	Brief Summary of the project	Annexure-III Brief Summary of Project
6	Category of Project i.e. 'A' or 'B'	A
7	Does it attract the general conditions? If yes, please specify	No
8	Does it attract the Specific conditions? If yes, please specify	No

S. No	Item	Details	
9	Location of the project Shape of the project land Upload GPS file Uploaded copy of Survey of India Topo sheet Plot/survey/khasra No. Town/Village State of the Project	Pegadapalli Village, Jaipur Mandal, Mancherial District, Telangana Block (Polygon) Annexure – GPS File 56N/9 Second Edition Pegadapalli Telangana	
Details of State of the Project			
S. No.	State Name	District Name	Tehsil Name
1	Telangana	Mancherial	Jaipur - 504216
10	Nearest railway station along with distance in Kms Nearest airport along with distance in kms	Mancherial Railway station at a distance of 14.6 Km (Nagpur-Kazipet main rail line of South-Central Railway) Rajiv Gandhi International Airport, Shamshabad, Hyderabad at a distance of 250 Km.	
11	Nearest town/city/district headquarters along with distance in kms	Town: Mancherial (14.6 Kms) City: Hyderabad (250 Kms) District Head Quarters : Mancherial (14.6 Kms)	
12	Village Panchayats, Zilla Parishads, Municipal Corporation, Local Body (Complete Postal Address with telephone nos. to be given)	Pegadapalli Village, Jaipur Mandal, Telangana State – 504216 Ph: 08737-243243	
13	Name of the applicant	Salakula Shankar, Director (E&M), SCCL	
14	Registered address	M/s Singareni Collieries Company Ltd. P.O.Kothagudem – 507101, Bhadradri Kothagudem District, Telangana State	
15	<u>Address for correspondence</u> Name of the company Name of the applicant Designation (Owner/Partner/CEO) Pin code	M/s Singareni Collieries Company Ltd. Salakula Shankar, Director (E&M), SCCL 507101	

S. No	Item	Details
	E-mail Telephone No. Fax No. Copy of documents in support of the competence/ authority of the person making this application to make application on behalf of the user agency.	denm@scclmines.com 08744-243059 08744-244115 Annexure – Uploaded copy of the documents in support of the competency/authority
16	Details of Alternate Sites examined shown on a topo sheet.	No, present proposal is expansion of existing project.
17	Whether part of interlinked projects?	No
18	Whether separate application of interlinked project has been submitted?	Not applicable
19	If yes, MoEF file number 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	
	i) Whether the proposal involves approval / clearance under the Forest (Conservation) Act, 1980?	No
	ii) Whether the proposal involves approval / clearance under the Wildlife (Conservation) Act, 1972?	No
	iii) Whether the proposal involves approval / clearance under the C.R.Z. Notification, 2011?	No
22	Whether there is any Government Order / Policy relevant / relating to the site?	No
23	Whether any Forest land involved? Area of forest land involved (Ha.)	No Not applicable
24	Whether there is any litigation pending against the project and / or land in which the project is proposed to set up? (a) Name of the Court (b) Name of the sub-court (c) Case No (d) Orders / directions of the court, if any and its relevance with the proposed project.	No Not applicable

(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	Presently 2X600 MW STPP is existing in area of 300.972 Ha. Land required for additional unit of 1X800 MW will be 127.31 Ha. Thus total Land required is 428.28Ha. Total land is under possession of SCCL. The land use will change from open barren land to mixed use development as the proposed land will be occupied by the proposed thermal power plant.
1.2	Clearance of existing land, vegetation and buildings?	Yes	Clearance of existing land cover would be done as per the requirement for grading/leveling for the project site to construct power plant and associated utility and infrastructure facilities. There are no buildings and structures exist in the proposed project site, hence there is no requirement for the clearance.
1.3	Creation of new land uses?	Yes	After completion of the project the land use will permanently change from open barren land to mixed use development as the proposed land will be occupied by the proposed thermal power plant.
1.4	Pre-construction investigations e.g. bore holes, soil testing?	Yes	Detailed soil investigation work involving borehole and trial pit tests and electrical resistivity tests will be carried.
1.5	Construction works?	Yes	Office buildings and Civil structures will be constructed to accommodate Boiler, Turbine, Generator, Condenser, Cooling water system, Coal handling system, Ash handling system, Coal handling plant, ESPs, ETP, Reservoir, Switchyard and other mechanical and electrical plant and equipment. Complete details are given in prefeasibility report.
1.6	Demolition works?	No	Not envisaged

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
1.7	Temporary sites used for construction works or housing of construction workers?	No	Temporary sheds constructed for the construction of 2x600 MW STPP will be used for present proposal of additional 1X800 MW unit . Majority of labour will be sourced from nearby villages & existing township of the SCCL.
1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	Yes	Boiler, Turbine, Generator, Condensor, Cooling Tower, Chimney, Water system, Coal Handling Plant, ESP, ETP, Switchyard, and other civil, mechanical and electrical facilities required for the project.
1.9	Underground works including mining or tunneling?	No	Not required
1.10	Reclamation works?	No	Not required
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production and manufacturing processes?	Yes	Coal received from the mines at (-) 200 mm size is crushed in the crusher house to (-) 20mm size, which is subsequently pulverized in the coal mill. The powdered coal is burnt in the furnace to generate steam in the boiler. The steam generated in the boiler is expanded in the HP, IP & LP turbines and power is generated in the generator. The steam after expansion in the turbine is condensed in the condenser and the condensed steam is replaced back to the boiler. The hot gasses from the furnace after losing heat in different areas goes through the Electrostatic Precipitators (ESP) where ash is trapped. The clean gas goes through the chimney. Stack height of 275 m is proposed.
1.14	Facilities for storage of goods or materials?	Yes	The following facilities will be provided for storage of goods or materials. <ul style="list-style-type: none"> • Stores • Coal Yard • Fuel tanks

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
			<ul style="list-style-type: none"> • Temporary storage sheds are proposed during construction.
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	Yes	<p>Solid Waste: Dry ash handling systems are proposed for collection of fly ash in dry form and storage facilities (Silo) and will be supplied to cement or brick industries or end users and balance will be sent to ash pond area. Hydrobins will be provided to utilize bottom ash and will be sent to nearby coal mines of SCCL for stowing/void filling or for embankments of roads and others.</p> <p>Liquid effluents: ETP and STP are proposed for treatment of plant effluents and sewage from plant and colony.</p>
1.16	Facilities for long term housing of operational workers?	Yes	Staff quarters will be constructed for the operational manpower for both the plants under operation and proposed unit in the space available outside the main plant area.
1.17	New road, rail or sea traffic during construction or operation?	No	No sea traffic facilities required. The project area is having well developed road and rail network. Additional internal roads required will be formed. Railway line will be extended from the existing Srirampur CHP of the SCCL up to the plant site.
1.18	New road, rail, air, waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	Yes	No sea traffic facilities required. The project area is having well developed road and rail network. Additional internal roads required will be formed. Railway line will be extended from the existing Srirampur CHP of the SCCL.
1.19	Closure or diversion of existing transport routes or infrastructure leading to changes in traffic movements?	No	No change in existing road network is envisaged.
1.20	New or diverted transmission lines or pipelines?	No	No diversion of transmission or pipelines required. New EHV power transmission

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
			lines and water pipelines are envisaged for the 2x600 MW plant will cater the needs of expansion unit.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	No	Not envisaged.
1.22	Stream crossings?	No	There are no streams crossing in the proposed site.
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	Required water for the proposed power plant will be met from the Pranahita river through pipeline.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	No	Existing Nalla diversion is proposed within the plant boundary, permission was obtained from competent authority for diversion of Nalla within the plant boundary.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Transportation of construction material, construction machinery, power plant machinery will be transported through rail and road networks. Manpower will be met from the nearby villages and existing township. During the operational stage required material will be transported through rail and road networks and operational manpower will be accommodated in the township proposed outside main plant area.
1.26	Long-term dismantling or decommissioning or restoration works?	No	No long term dismantling works involved
1.27	Ongoing activity during decommissioning which could have an impact on the	No	Not envisaged

S.No	Information/Checklist confirmation	Yes/No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
	environment?		
1.28	Influx of people to an area in either temporarily or permanently?	Yes	About 3000 labourers during construction will be employed temporarily. About 450 permanent staff will work in the power plant during operational phase.
1.29	Introduction of alien species?	No	No Introduction of alien species
1.30	Loss of native species or genetic diversity?	No	No loss of native species or genetic diversity
1.31	Any other actions?	No	None

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 already developed for Existing 2x600MW power plant is 300.972 Ha (Main plant 280.40 Ha, Land for Rail system:15.245 Ha, Land for water pipe line :5.327 Ha) Undeveloped land available for expansion of additional unit 1X800MW : 127.31Ha (314.65 acres)
2.2	Water (expected source & competing users) unit: KLD	Yes	Water requirement: 1) For 2x600 MW plant under operation: 88,800 KLD (3700 m ³ /hr) 2) For additional 1X800 MW : 48000KLD (2000 m ³ /hr) 3) Total Water required for 2x600 MW& 1x800 MW : 1,36,800 KLD (5700 m ³ /hr) The required water will be met from River Godavari and Pranahitha. 2.00 TMC of water from Pranahitha River was allocated by State Government.

S.No	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
2.3	Minerals (MT)	Yes	Coal requirement: 1) For 2x600 MW plant under construction: 4.784 MTPA 2) For additional 1X800 MW : 4.05 MTPA 3) Total coal required for 2x600 MW & 1x800 MW: 8.834 MTPA The required coal will be supplied from SCCL mines. MoC will be approached to grant bridge linkage for the proposed 1x800 MW.
2.4	Construction material – Cement, steel, stone, aggregates, sand/soil (expected source – MT)	Yes	Cement: 1,32,000 MT Structural Steel: 21,750 MT Reinforcement Steel: 26,000 MT Sand: 1.50 L.Cu.m Stone/aggregate: 2.25 L.Cu.m
2.5	Forests and timber (Source – MT)	No	Nil
2.6	Energy including electricity & fuels (source, competing users) Unit: Fuel (MT) Energy (MW)	Yes	Electricity required during construction will be met from existing source / nearest 33 KV sub-station. HFO/LDO requirement for startup and flame stabilization: 1) For 2x600 MW plant under operation: 8935 KL/annum 2) For additional 1X800 MW : 3153 KL/annum 3) Total fuel required for 2x600 MW & 1X800 MW : 12,088 KL/annum
2.7	Any other natural resources (use appropriate standard units)	No	The required HFO/LDO will be met from the nearest oil depots.

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	Precautions and safe operating practices will be followed in storage, handling and use of Hazardous material like Furnace Oil, HSD, Chlorine, Alum, Caustic soda, HCL, etc will be used immediately.
3.2	Changes in occurrence of disease or affect disease vectors (e.g. insect or water borne diseases)	No	No changes in occurrence of disease
3.3	Affect the welfare of people e.g. by changing living conditions?	Yes	Proposed expansion of the 1x800 MW power project will lead to upliftment of socio-economic conditions of the local people
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	All pollution control norms will be strictly followed with respect to Particulate Matter (PM), SO ₂ and NO _x emissions by installation of pollution control equipments. There is no effect envisaged for the vulnerable groups of people who could be affected by the project.
3.5	Any other causes	No	No other causes envisaged

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	Yes	The spoil generated during the construction will be reused for leveling within the plant site and green belt development

S.No	Information/ Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
4.2	Municipal waste (domestic and or commercial wastes)	Yes	During the construction and operational phase of the proposed plant collection and handling of domestic solid waste will be disposed as per the provisions of Solid Waste Management Rules, 2016.
4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	The Hazardous wastes generated during construction and operational phases will be disposed as per the provisions of Hazardous and other wastes (Management & Transboundary) Movement Rules, 2016.
4.4	Other industrial process wastes	Yes	During the operation 3950 TPD of fly ash and 987 TPD of bottom ash will be generated in the present proposal of 1X800 MW TPP. The fly ash will be collected and disposed in dry form for utilization for cement & other end users and bottom ash will be collected through hydrobins and utilized for stowing/void filling in SCCL mines.
4.5	Surplus product	No	There is no surplus product generation.
4.6	Sewage sludge or other sludge from effluent treatment	Yes	Sewage Sludge generated from the STP will be used as manure in greenbelt development.
4.7	Construction or demolition waste	Yes	During construction some amount of construction debris may be generated which will be segregated and whatever is re-saleable will be sold to buyers and rest of the waste will be used for filling up of low lying areas and development of internal roads and boundary walls.
4.8	Redundant machinery or equipment	No	Not envisaged
4.9	Contaminated soils or other materials	No	No contamination is anticipated.
4.10	Agricultural wastes	No	Not Envisaged
4.11	Other solid wastes	No	No other solid wastes

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	Vehicles transporting man and material for construction, operations are sources of emission from fossil fuel. The pollutions likely to be released are PM ₁₀ , PM _{2.5} , SO ₂ , NO _x , CO and HC etc. control measures will be taken to keep these pollutants within the prescribed norms of CPCB and TSPCB.
5.2	Emissions from production processes	Yes	PM ₁₀ , PM _{2.5} , SO ₂ , NO _x will be the major emissions from the power plant operations. The boiler will be attached to Electrostatic Precipitator (ESP) of 99.98% efficiency with 275 m stack height to restrict the emissions below <30 mg/Nm ³ . There will be marginal increase in emissions and will be adequately covered in impact assessment and EMP.
5.3	Emissions from materials handling including storage or transport	Yes	Fugitive emissions are envisaged from material handling and transportation areas during construction stage. These will be controlled by good housekeeping, sprinkling water in dust prone areas, providing paved roads, proper fencing and green belt development. Fly ash collected in ESP will be stored in ash silos for transportation to cement & brick industries. Unutilized ash if any during exigency will be disposed in the ash pond.
5.4	Emissions from construction activities including plant and equipment	Yes	The gasses emissions like oxides of Nitrogen and CO will be emitted from the equipment during construction phase only. However, these are fugitive emissions of temporary

S.No	Information/Checklist Confirmation	Yes/ No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
			nature and will be controlled by sprinkling water.
5.5	Dust or odors from handling of materials including construction materials, sewage and waste	Yes	Dust generated due to handling construction material will be controlled by sprinkling of water. The sewage will be treated in septic tanks followed by soak pits.
5.6	Emissions from incineration of waste	No	No incineration is proposed
5.7	Emissions from burning of waste in open air (e.g. slash materials, construction debris)	No	No material will be openly burnt in air.
5.8	Emissions from any other sources	No	Nil

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	<p>i) Noise will be generated during operation of generator, Turbines, compressors, pumps, fans, coal handling plant etc. The expected noise level during those operations is 75 dB (A), necessary PPEs will be provided. Noise level will be limited as per Norms. Suitable acoustic enclosures will be provided.</p> <p>ii) Most of the equipment structures are static. The vibration effect of these will be only local and the design of supports and foundations will nullify the intensity.</p> <p>iii) Light emissions are not envisaged</p> <p>iv) Heat emissions will be felt nearby boiler, generator areas.</p> <p>v) Noise generation during construction will not be continuous and meager.</p>

S.No	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
6.2	From industrial or similar processes	Yes	Heat is released in the furnace that heats up the surrounding air due to convection. Therefore insulation will be applied to furnace walls to minimize the heat transfer to air.
6.3	From construction or demolition	Yes	Noise generated from Excavation, drilling and welding will be temporary.
6.4	From blasting or piling	No	Not applicable
6.5	From construction or operational traffic	Yes	There will be marginal additional traffic which may lead to the slight increase in the noise levels.
6.6	From lighting or cooling systems	Yes	The noise level due to operation of cooling towers will be of the order of 75 dB(A)
6.7	From any other sources	No	Nil

7) Risks of contamination of land or water from release of pollutants into the ground or into sewers, surface waters, ground water, 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	Yes	Precautions and safe operating practices will be followed to minimize hazard due to accidental spill of hazardous materials which are stored in small quantities.
7.2	From discharge of sewage or other effluents to water or the land (expected mode and place of discharge)	Yes	No discharge of sewage or other effluents to water or the land is envisaged outside the plant boundary. Power plant waste water and sewage water will be treated in Treatment Plants and 100% reused for green belt development, dust control, etc. A zero discharge concept will be followed.
7.3	By deposition of pollutants emitted to air into the land or into water	No	The major emission from the proposed project are Particulate Matter (PM), SO ₂ and NO _x . Adequate control

S.No	Information/Checklist confirmation	Yes/ No	Details thereof (with approximate quantities/rates wherever possible) with source of information data
			systems like ESP and stack height meeting the MoEF guidelines will be provided to control the emissions. FGD is proposed to remove the sulphur form flue gases. Hence there will not be any chance of contamination of land and water by deposition of pollutants emitted to air.
7.4	From any other sources	No	No other sources
7.5	Is there a risk of long term build up of pollutants in the environment from these sources?	No	Not envisaged

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	Adequate safety measures will be followed to control fire and other disasters by preparing and implementation of Disaster Management Plan during construction and operational phase. LDO/HFO will be stored and handled as per all applicable safety regulations.
8.2	From any other sources	No	Not envisaged
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc.)?	No	The proposed project site falls in Zone III as per the IS 1893 (Part-1): 2002. It is lesser seismic prone zone. There are no landslides, erosion and other natural calamities.

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 facilities, ancillary development or development stimulated by the project which could have impact on the environment e.g. Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.) Housing development Extractive industries Supply industries Others	Yes	Proposed plant will result in considerable growth of service sector, which will lead to supporting and ancillary development in the region. New housing facilities and social infrastructure may come up due to influx of the people.
9.2	Lead to after-use of the site, which could have an impact on the environment	No	No major impacts are envisaged
9.3	Set a precedent for later developments	Yes	Ancillary industries would develop.
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects.	No	Cumulative impact of proposed and existing units will be in the statutory limits.

(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	No	No areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value are present.
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests.	No	No wildlife sanctuary and National park exists. River Godavari, Tekumatla Vagu, Elkanti Cheruvu, Indaram Tank, etc and Indaram R.F., Kundaram R.F present in buffer zone.

S.No	Areas	Name/ Identity	Aerial distance (within 15 km.) Proposed project location boundary
3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	No	Nil
4	Inland, coastal, marine or underground waters	Yes	Godavari River at a distance of 8.6 Km.
5	State, National boundaries	No	Nil
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	No	Nil
7	Defence installations	No	Nil
8	Densely populated or built-up area	Yes	Mancherial at a distance of 14.6 Km.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Yes	There are no. of schools, hospitals, temples, churches, majids, etc within 15 Kms.
10	Areas containing important, high quality or scarce resources (ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	No	Nil
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	No	Nil
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	Nil

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(IV) Proposed terms of reference for EIA studies (TOR is enclosed as Annexure-V)

"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 given, if any to the project will be revoked at our risk and cost.



(SALAKULA SHANKAR)

DIRECTOR (E&M)

THE SINGARENI COLLIERIES COMPANY LIMITED

(A Government Company)

DATE: 06.09.2017

PLACE: KOTHAGUDEM