

**FORM 1**

**(I) Basic Information**

Sl.No	Item	Details
1	Name of the Project:	Shiggaon Lift Irrigation Scheme
2	Sl.No in the Schedule	1 (c)
3	Proposed Capacity/ area/ length/ tonnage to be handled/ command area/lease area/number of wells to be drilled	The proposed scheme envisages diversion of 1.5 TMC of water by constructing a diversion weir across Varada river near Halasur village of Savanur Taluk, lifting of water to higher lands and providing <b>Sprinkler Irrigation</b> facility for 9900 ha and drip irrigation to 3600 Ha of dry land and also providing drinking water facility by filling existing MI Tanks of Shiggaon, Savanur and Hangal Taluks of Haveri district. The total water allocated for the proposed project is 1.5 TMC.
4	New/Expansion/Modernization	Modification
5	Existing Capacity & Area	9900 Ha CCA (1.5 TMC water)
6	Category of Project i.e 'A' or 'B'	A [1 (c) in the Schedule]
7	Does it attract the general condition? If yes, please specify	Yes, since the Bankapur Peacock Sanctuary located in the command area of the project near Bankapura village.
8	Does it attract the specific condition? If yes, please specify	No
9	Location	Near Halasur village, Savanur Taluk, Haveri District, Karnataka.
	Plot/Survey/Khasra No.	The location of proposed Jackwell is at longitude 75 <sup>o</sup> 17'00" E and latitude 14 <sup>o</sup> 51'00" N near Halasur village of Savanur Taluk.
	Village	Halasur
	Tensil	Savanur Taluk
	District	Haveri
	State	Karnataka
10	Nearest Railway Station/airport along with distance	Haveri Railway Station - 14 Km Aerial distance from the Project Site in South eastern Direction. Hubli Airport - 57 Km Aerial distance from the Project Site in Northern Direction.
11	Nearest Town, City, District	Nearest Town is Savanur which is at a

	Headquarters along with distance in Kms.	distance of 13 Km from the project site. Nearest City & District is Haveri which is at a distance of 14 Km Aerial distance from the project site. District Headquarters - Haveri
12	Village Panchayats, Zilla Parishad, Municipal Corporation, Local Body (complete postal address with telephone no.s to be given)	Executive Officer, Taluk Panchayat, Savanur. Ph: 08378 - 205628 Executive Officer Taluk Panchayat, Shiggaon. Ph: 08378 - 215247 Executive Officer Taluk Panchayat, Hangal. Ph: 08379 - 272236 Executive Officer Taluk Panchayat, Haveri. Ph: 08375 - 233446 The President, Zilla Panchayat, DC Office Complex, Haveri. Ph: 08375 - 249046.
13	Name of the applicant	Chief Engineer, Karnataka Neeravari Nigam Limited, Malaprabha Project Zone, College Road, Dharwad - 580001. Karnataka.
14	Registered Office	Karnataka Neeravari Nigam Limited 4th Floor, Coffee Board Building, No. 1, Dr. B.R. Ambedkar Veedhi, Bangalore - 560 001. Ph: 91-80-2228 3074 - 78. Fax: 91-80-2226 7314.
15	Address for Correspondence:	Chief Engineer, Karnataka Neeravari Nigam Limited, Malaprabha Project Zone, College Road, Dharwad - 580001.

		Karnataka.
	Name	Chief Engineer
	Designation (Owner/ Partner/ CEO)	Chief Engineer
	Address	Chief Engineer, Karnataka Neeravari Nigam Limited, Malaprabha Project Zone, College Road, Dharwad - 580001. Karnataka.
	Pin Code	580001
	Email	cempzdwr@rediffmail.com
	Telephone No.	0836-2447793, 2740591
	Fax No	0836 - 2446175
16	Details of Alternative Sites Examined, if any. Location of these sites should be shown on the toposheet.	Nil
17	Interlinked Projects	Not Applicable
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 & their status to be given. The Forest (Conservation) Act, 1980? The Wildlife (Protection) Act, 1972? The C.R.Z Notification, 1991?	a) The Forest (Conservation) Act - 1980 - Yes, 0.96 Ha of open forest land is required for construction of diversion weir (File No. FP/KA/IRRIG/6617/2014). (b) The Wildlife (Protection) Act - 1972 - Not Applicable. (c) CRZ Notification - 1991 - Not Applicable.
22	Whether there is any Government Order/Policy relevant/relating to site?	Yes, Karnataka Government Order No: WRD 11 MMB 2013, Bangalore dated 30.10.2013
23	Forest Land involved (hectares)	0.96
24	Whether there is any litigation pending against the project and / or land in which the project is propose to be set up? Name of the Court Case No.	No

	Orders /directions of the Court, if any and its relevance with the proposed project.	
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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 use plan)	Yes	The project location is a drought prone area with scanty rainfall and the livelihood of the people depend on the rain fed crops. The proposed project envisages changing the rain fed cropping pattern to sprinkler irrigated cropping pattern. Hence the project is of utmost importance to the region. The intensity of irrigation is kept at 100% for Kharif - semi dry crops only from June to December.
1.2	Clearance of existing land, vegetation and buildings?	No	Land is already acquired.
1.3	Creation of new land uses?	Yes	Existing 13,500 Ha of land will be brought under irrigation.
1.4	Pre-construction investigations e.g. bore holes, soil testing?	Yes	Soil Investigations are in progress
1.5	Construction works?	Yes	Jack Well cum Pump House - Already constructed and construction of diversion weir yet to be started. Existing pipeline facility to transport water will be extended to cover the additional 3600 Ha through MS rising main which are buried under ground.
1.6	Demolition works?	No	Not Applicable
1.7	Temporary sites used for construction workers or housing of construction workers?	No	

1.8	Above ground buildings, structures or earthworks including linear structures, cut and fill or excavations	No	Jack Well cum Pump House - Already constructed. Existing pipeline facility to transport water will be extended to cover the additional 3600 Ha through MS rising main which are buried under ground
1.9	Underground works including mining or tunneling?	No	Not Applicable
1.10	Reclamation works?	No	Not Applicable
1.11	Dredging?	No	Not Applicable
1.12	Offshore structures?	No	Not Applicable
1.13	Production and manufacturing processes?	No	Not Applicable
1.14	Facilities for storage of goods or materials?	No	
1.15	Facilities for treatment or disposal of solid waste or liquid effluents?	No	
1.16	Facilities for long term housing of operational workers?	No	
1.17	New road, rail or sea traffic during construction or operation?	No	There will be approach roads to the construction site. There is no new rail or sea traffic.
1.18	New road, rail, air waterborne or other transport infrastructure including new or altered routes and stations, ports, airports etc?	No	There will be approach roads to the construction site.
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?	Yes	Additional MS pipelines will be installed which do not affect the existing ones.
1.21	Impoundment, damming, culverting, realignment or other changes to the hydrology of watercourses or aquifers?	Yes	A diversion weir across Varada River near Halasur village of Savanur taluk to ensure required quantity of water impounding for the scheme.

1.22	Stream crossings?	No	Most part of major construction already completed.
1.23	Abstraction or transfers of water from ground or surface waters?	Yes	The project involves utilisation of 1.5 TMC (42.48 M.Cum) of surface water from River Varada.
1.24	Changes in water bodies or the land surface affecting drainage or run-off?	Yes	No changes are anticipated to the water bodies or land surface due to the proposed project activities. The project in no way affects the existing drainage pattern/run off.
1.25	Transport of personnel or materials for construction, operation or decommissioning?	Yes	Existing facilities will be made use of along with service road & inspection path for transport of personnel/material for construction & operation.
1.26	Long-term dismantling or decommissioning or restoration works?	No	Not Applicable
1.27	Ongoing activity during decommissioning which could have an impact on the environment?	No	Not Applicable
1.28	Influx of people to an area in either temporarily or permanently?	Yes	Construction laborers will be hired during construction of the proposed project.
1.29	Introduction of alien species?	No	Not applicable
1.30	Loss of native species of genetic diversity?	No	The proposed project doesn't involve cutting of trees.
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):**

Sl. 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 is already acquired.
2	Water (expected source & competing users) unit: KLD	Yes	The total water allocated for the scheme was 1.5 TMC. As per the suggestions of

			Expert Appraisal Committee (EAC) of MoEF dated 22.03.2010, the entire command area of the project has been converted from flow irrigation to sprinkler irrigation system thereby, reducing the total water required for the project to 1.12 TMC (0.98 TMC for irrigation and 0.14 TMC for filling MI Tanks) and achieved 0.38 TMC of water conservation. Subsequently, in the EIA report (Pg 1.3 of Chapter -1, Pg 2.1 of Chapter 2) and also during our presentation to EAC, MoEF dated 11.08.2014 (Slide no. 5) <b><i>it was informed that remaining 0.38 TMC of water will be utilized at the later stages of the project.</i></b>
2.3	Minerals (MT)	No	-
2.4	Construction material – stone, aggregates, sand / soil (expected source – MT)	Yes	The Government and Private Quarries proposed by the Department will be used during execution. Source of procurement of the construction materials are given below: Sand – Niginal Metal & Rubble – Jekkinakatti Cement – Shiggaon Market Place Steel – Shiggaon Market Place
2.5	Forests and timber (source – MT)	No	-
2.6	Energy including electricity and fuels (source, competing users) Unit: fuel (MT), energy (MW)	Yes	Electrical Power of about 10,616 HP is required for operation of pumps 4 pumps from June to September. Source- KPTCL (Karnataka Power Transmission Corporation Ltd).
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.**

<b>Sl. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes/No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with source of information data</b>
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?	Yes	Socio-Economic conditions of the people benefited by this proposed scheme will improve as 13,500 Ha of ICA will be brought under Sprinkler & Drip Irrigation.
3.4	Vulnerable groups of people who could be affected by the project e.g. hospital patients, children, the elderly etc.,	No	There will be no displacement of the houses/people due to the proposed project.
3.5	Any other causes	No	-

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

<b>S. No.</b>	<b>Information/Checklist confirmation</b>	<b>Yes/No</b>	<b>Details thereof (with approximate quantities/rates, wherever possible) with source of information data</b>
4.1	Spoil, overburden or mine wastes	Yes	Excavated soil earth will be reused in formation of service roads, inspection paths & in canal embankment. Hard rock quantity will be used for metal.
4.2	Municipal waste (domestic and or commercial wastes)	No	-

4.3	Hazardous wastes (as per Hazardous Waste Management Rules)	Yes	Minor quantities of Lubricating oil from the pumps during the operation stage.
4.4	Other industrial process wastes.	No	Not Applicable
4.5	Surplus product	No	Not Applicable
4.6	Sewage sludge or other sludge from effluent treatment	No	-
4.7	Construction or demolition wastes	Yes	Construction wastes will be collected & given to local municipal authority.
4.8	Redundant machinery or equipment	No	-
4.9	Contaminated soils or other materials	No	Contaminated soils or other materials are not generated during construction or maintenance period of the Project.
4.10	Agricultural wastes	No	Not Applicable
4.11	Other solid wastes	No	-

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

Sl. 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	No	-
5.3	Emissions from materials handling including storage or transport	No	-
5.4	Emissions from construction activities including plant and equipment	Yes	Dust will be generated during excavation.
5.5	Dust or odours from handling of materials including construction materials, sewage and wastes	No	-

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:**

Sl. 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	There will be increase in noise and vibration during excavation which is temporary.
6.2	From industrial or similar processes	No	-
6.3	From construction or demolition	No	-
6.4	From blasting or piling	No	-
6.5	From construction or operational traffic	No	-
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:**

Sl. 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	-
7.3	By deposition of pollutants emitted to air into the land or into water	No	-
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	No	Nil
8.2	From any other causes	No	Nil
8.3	Could the project be affected by natural disasters causing environmental damage (e.g. floods, earthquakes, landslides, cloudburst etc)?	No	-

**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	No	-

	could have impact on the environment e.g.: <ul style="list-style-type: none"> <li>Supporting infrastructure (roads, power supply, waste or waste water treatment, etc.)</li> <li>housing development</li> </ul>		
	• extractive industries	No	-
	• supply industries	No	-
	• other	No	-
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	No	-
9.4	Have cumulative effects due to proximity to other existing or planned projects with similar effects	No	-

**(I) Environmental Sensitivity**

Sl. No.	Areas	Name/ Identity	Aerial distance (within 15 kms) from Proposed project location boundary
1	Areas protected under international conventions, national or local legislation for their ecological, landscape, cultural or other related value	Bankapura Peacock Conservation Reserve	Bankapura Peacock Conservation Reserve is situated in the command area of the project. But the proposed project will not disturb the Reserve as the project envisages Micro irrigation System with piped conveyance system.
2	Areas which are important or sensitive for ecological reasons - Wetlands, watercourses or other water bodies, coastal zone, biospheres, mountains, forests	Dharma River  Varada River  Bankapura Peacock Conservation Reserve	Adjacent to the proposed Command Area boundary of the scheme. And also part of the scheme.  Part of the scheme.  Bankapura Peacock Conservation Reserve area of 139 acres is not included in the proposed command area of the project.

3	Areas used by protected, important or sensitive species of flora or fauna for breeding, nesting, foraging, resting, over wintering, migration	Bankapura Peacock Conservation Reserve	The proposed project will not disturb the Reserve as the project envisages Sprinkler Irrigation System with piped conveyance system.
4	Inland, coastal, marine or underground waters	Dharma River Varada River	Adjacent to the proposed Command Area boundary of the scheme. And part of the scheme. Part of the scheme.
5	State, National boundaries	Nil	--
6	Routes or facilities used by the public for access to recreation or other tourist, pilgrim areas	NH-4	This Highway lies in proposed command area of the scheme i.e., the highway traverses through the command area of the scheme.
7	Defense installations	Nil	-
8	Densely populated or built-up area	Shiggaon Savanur Hanagal Haveri	These places are located within 15 Km aerial distance from Proposed project location boundary.
9	Areas occupied by sensitive man-made land uses (hospitals, schools, places of worship, community facilities)	Shiggaon Savanur Hanagal Haveri Bankapur	These places are located within 15 Km aerial distance from Proposed project location boundary.
10	Areas containing important, high quality or scarce resources(ground water resources, surface resources, forestry, agriculture, fisheries, tourism, minerals)	Shiggaon Savanur Hangal	These places are located within 15 Km aerial distance from Proposed project location boundary.
11	Areas already subjected to pollution or environmental damage. (those where existing legal environmental standards are exceeded)	Nil	-
12	Areas susceptible to natural hazard which could cause the project to present environmental problems (earthquakes, subsidence,	Nil	-

	landslides, erosion, flooding or extreme or adverse climatic conditions)		
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