



KARNATAKA NEERAVARI NIGAM LIMITED

(A Government of Karnataka Undertaking)

Office of the Executive Engineer, Karnataka Neeravari Nigam Limited, No.2 Varahi Reservoir
Project Division, Siddapura, Udipi District

Sl.No.:KNNL:EE:No.2-VRPD:PB:VLC-Forest:2022-23/

1413

dtd: 14/12/2022

To,

Deputy Conservator of Forests
Kundapura Division,
Kundapura.

Dear Sir,

Sub: Diversion of 17.49ha (Revised from 16.246ha) of forest land in Haladi-76, Shirooru, Billadi, Heggunde and other villages in Udipi and Brahamavara Taluk of Udipi District for construction of Irrigation Main and Branch Canal under Varahi Lift Irrigation Scheme in favour of the Executive Engineer, Karnataka Neeravari Nigam Limited, No.2 Varahi Reservoir Project Division, Udipi-reg

Ref: Asstt. Inspection General of Forest (Central), Government of India, Ministry of Environment, Forest and Climate Change, Bangalore office letter No. No.4-KRC1366-BAN dtd:23rd/25th November 2022

With reference to the above subject, the compliance to the observations raised under reference letter is now submitted for kind perusal.

Thanking you

Encl: Compliance Report

Your's faithfully,

Sd/-

Executive Engineer

Karnataka Neeravari Nigam Ltd

No-2, Varahi Reservoir Project Division

Siddapura, Udipi Dist.

Copy to Sri B.N. Anjan Kumar, Asstt. Inspector General of Forest (Central), Government of India, Ministry of Environment, Forest and Climate Change, Bangalore for kind information.

Executive Engineer

Karnataka Neeravari Nigam Ltd

No-2, Varahi Reservoir Project Division


Siddapura, Udipi Dist.

A Concern for Water

Compliance to the observations cited vide letter No.F.No.4-KRC1366/2022-BAN/ dtd:23rd/25th November 2022

Sl.No.	Observations	Compliance
1.	The Justification given by User Agency that by avoiding Forest area, there will be reduction in the total command area is not supported by quantitative details.	<p>Alternate-I Canal alignment runs in deep cut reaches creates command area of only 815.66ha as against the proposed 2723 ha of command area. There will be reduction of 1907.34ha in the total command area.</p> <p>Alternate-2 Canal alignment runs in lower contour creates command area of 1386ha as against the proposed 2723 ha of command area. There will be reduction of 1337ha in the total command area. (Map Enclosed)</p>
2.	The cost escalation is cited as a reason for discarding one of the alternative alignment examined in non forest area. However, the exact details of increase in cost for setting up the project in non forest land are not provided. The values of Ecosystem Goods and Services of the forest area selected for the proposed alignment needs to be compared with the implementation cost in non forest area to arrive at a scientific conclusion of discarding or selecting forest/non forest area.	Alternate-1 alignment passing through non-forest land runs very near to State Highway-27 & Major District roads and also canal runs in deep cut regions which intern increases the cost of the project and also increase in land acquisition width technically. Also there will be reduction of 1907.34ha in the total command area. The cost escalation details enclosed separately. (Annexure-1)
3.	In order to assess the gravity of fait accompli situation created by the user Agency, quantifiable assessment of feasible alternatives may be examined and reported.	Details of Quantifiable assessment of feasible alternatives enclosed separately. (Annexure-2)
4.	The status of Compliance of conditions stipulated with respect to diversion of 15.40ha of Forest land accorded under F (C) Act, 1980 vide letter No. F (c)A/16.1/KAR/34/IP dated:03/01/1996 and for diversion of 129.60ha. of forest land vide letter No.8-107/84-FC dated:12/03/2004 duly authenticated by State Forest Department may be provided.	Enclosed Separately. (Annexure-3 & 4)


ASSISTANT EXECUTIVE ENGINEER
 Karnataka Neeravari Nigam Ltd.,
 No.3, Varahi Reservoir Project
 Sub Division, SIDDAPURA - 576 229
 Udupi District.

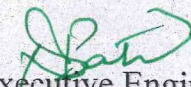

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 Siddapura, Udupi Dist.

Annexure-1

Quantitative Comparison of Alternate Alignment-1 and Proposed Alignment

Sl.No.	Component	Present Proposed Alignment	Alternative Alignment-1	Remarks
1.	Length of the canl	26.215km	17.10km	In order to avoid forest land, the alternate alignment was proposed to run very near to State Highway 27 & MDR through non-forest area. Hence the length of canal is less in alternate alignment.
2.	Depth of Cut in Canal	Ranging from 0.30 m to 13.0m	Ranging from 3.50m to 27.0m	Since the project area comes under Malnad area with heavy rainfall with loose lateritic soil terrain, depth of cut above 15.0m will prone to major land slides in canal which is not technically feasible in case of alternative alignment.
3.	Area of Acquisition in Non-Forest land	128 acre	190 acre	Increase in depth of cut of canal will increase the extent of land acquisition in case of alternative alignment.
4.	Cost of land acquisition	Rs. 40.00crores	Rs. 60.00crores	Cost of land acquisition will be increased due to increase in land extent in case of Alternate Alignment.
5.	Command Area	2723ha	815.66ha	Apart from all the above quantitative cost comparison, the alternate Alignment-1 which runs in non-forest area avoiding forest land will not serve the scope of the Project to create required irrigation potential of 2723ha. There will be reduction of command area of about 1907.34ha.

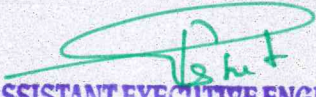

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Annexure-2

Details of Quantifiable assessment of feasible alternatives

Sl.No.	Component	Present Proposed Alignment	Alternate Alignment-1	Alternate Alignment-2	Remarks
1.	Length of Canal	26.215km	17.10km	22.40km	In order to avoid forest area, alternate Canal Alignment-1 was proposed to run very near to State Highway-27 and MDR through Non-Forest Area. The Alternate Canal Alignment-2 runs in lower contour.
2.	Depth of cut in canal	Ranging from 0.3m to 13.0m	Ranging from 3.5m to 27.0m	Ranging From 1 to 6.0m	In Alternate-2, since the canal runs in lower contour, entire canal will come under embankment construction which is not feasible in this Malnad region with heavy rainfall.
3.	Area of acquisition	128acre	190acre	110acre	Increase in depth of cut of canal will increase the extent of land acquisition in case of Alternative Alignment-1. In case of embankment reaches, increase in embankment height will increase the land acquisition extents in Alternate Alignment-2.
4.	Cost of Land acquisition	Rs. 40.00crores	Rs. 60.00crores	Rs. 35.00crores	Cost of land acquisition is comparatively more in Alternate Alignment.
5.	Command Area	2723ha	815.66ha	1386ha	Apart from all the above quantitative comparisons of cost, the alternate alignments were not serving the scope of the Project to create required irrigation potential of 2723ha. In Alternate-1, there will be reduction of command area of about 1907.34ha and there will be reduction of command area of about 1337ha in Alternate Alignment-2.


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Annexure-3

Status of Compliance of Conditions stipulated with respect to 15.4ha of forest land vide letter No.F (c) A/16.1/KAR/34/ZP dtd:03/01/1996

SI No	Stipulated Lease Condition	Compliance Report by the DCF
1	The legal status of the forest land shall remain unchanged	Remains as RF
2	The user agency shall pay Rs.6.20lakhs for raising compensatory afforestation in 15.5HA of non forest land at the rate of Rs.40000/-per Ha. The area Identified for compensatory afforestation will be notified as protected/Reserve Forest (The user agency deposited amount of Rs.6.20lakhs to the department on:19.07.95	An extent of 10Ha compensatory plantation has raised in kullanje village Sy no:115 of Shankaranarayana Range during the year 1995-96 and balance 5.4Ha has raised during the year 1998-99 in jogihalli C & D Class land Sy no:14,15 of Tumkur Division (As per the PCCF, Bangalore Letter No: A5(3)GFL/CR52/94-95 Dtd:14.07.2000) The User agency has paid Rs.6.20lakhs (CA paid in the PCCF Office on dtd:19.07.1995)
3	The lease rent at Rs.625 per Ha. Per annum should be paid to the Department	Lease rent Fixed per Ha is 1 year per Ha-Rs625. 2nd to 5 year per Ha-Rs.1000 5 to 10 years Rs-2000 10 to 15 years Rs.3500 After 15 year Rs.5000 The user agency has paid Rs.0.59675 lakhs from 1995-96 to 1997-98. The user agency claims one time payment of lease rent based on Govt Order No: Apaji/69/FFM/96 Dtd:01.12.1997
4	In addition to the compensatory amount the Varahi project authorities have to deposit Rs.387500/- for raising canal side plantation.	The user Agency has paid Rs.3.875 Lakhs vide DD No:0194723 & 0194724 Dtd:19.07.1995. And the canal bank plantation will be taken up during the year 2010-11 after completion of the canal work.
5	The non forest land identified of 12.25Ha in Sy No:108/2 of Rattadi Village and 3.15Ha Sy No:146/3 of Hengavalli Village in Kundapura Taluk for raising Plantation in lies of forest land shall to declared as Reserve Forest under Indian Forest act 1927.	Draft Notification is submitted to government trough CCP vide letter No:B6/WP/CR 202/96-97 Dtd:19.03.1997 of stipulated area 15.40 Ha of CA

6	The water shall be made available free of cost for forestry activities in the vicinity of the canal.	Since the work in progress this questions does not arise.
7	The Forest will not not to be used for any other purpose other than the purpose maintained above	The Forest land is being used for stipulated purpose only
8	Any Other conditions to be stipulated by Government of India/State Government/ Principal Chief Conservator of Forests, Karnataka from time to time in the interest of forest conservation	Does not arise

Annexure-4

**Status of Compliance of Conditions stipulated with respect to 129.60ha of forest land vide letter No.8-107/84-FC
dtd:12/03/2004**

SI No	Stipulated Lease Condition	Compliance Report by the DCF
1	The Legal status of the forest land shall remain unchanged	Remains as RF
2	The Compensatory Afforestation shall be raised over equivalent non forest land and shall be maintained at the project cost in this regard the funds transfer to the State Forest Department shall be placed at the disposal of the concerned Deputy Conservator of Forests.	For raising of Compensatory afforestation over an extent of 129.60 Ha. As per letter NO. A4(B4)FCA/GL-358/13-14 Dt:01.01.2014 of DCF Hassan Division an extent of 130 Ha. Compensatory Plantation raised in Hasan Division during the year 1997.
3	The non forest land for compensatory afforestation shall be notified by the State Government as RF under section 4 of PF under section 29 of Indian Forest Act, 1927 or the State Forest Act within a period of 6 months and Nodal Officer (Forest Conservation) shall report the compliance	
4	Demarcation of the area will done on ground at project cost using four feet high RCC pillars with serial numbers, forward and back bearings and distance between adjacent pillars.	Demarcation with RCC pillars is done as prescribed.
5	Trees shall be felled only when becomes necessary under the supervision of State Forest Department.	The trees are cut as and when required for the work
6	Reservoir so created shall be declared as "Reserved Forest" under Indian Forest Act, 1927 with regulated fishing rights.	Does not arise.
7	Canal Bank plantation shall be raised and maintained by the State Forest Department at the Project cost	157 Ha (62 Ha Block Fuelwood plantation, 85 ha ANR plantation and 10 km Fruit bearing plantations) raised in Shankaranarayana range during the year 2011-12 and 2012-13 under Canal side plantation work. (Location as follows Rattadi Block-5Ha, Handa-Kunda-11Ha, Choradi-23 Ha, Hasalalikodlu-3 Ha, Tarebailu-5Ha, Jamboor-5Ha, Total-62 Ha. (Bharathkallu, Manjuru-35 Ha, Metkalgudde RF, Basavapur-30 Ha, Irbailu-15 Ha, Jannadi-5 Ha. Total 85 Ha) (Holeshankarayana-Metkalgudde-2Km, Noojinabailu-74th Ulloru-3 Km, Bharthkall Manjur-3 Km, Jannadi, Malahalli-2 Km. Total -10Km)

8	No. Tree felling in the area between FRL and 4m below FRL Shall be carried out	Complied
9	Water will be provided free of cost to the Forest Department for raising nursery/Plantations in near by areas.	Complied
10	Catchment area treatment plan shall be implemented under the supervision of state Forest Department	Catchment Area Treatment plan will be implemented once the revised plan is approved by the authority.
11	Re-settlement and rehabilitation plan for the displaced people shall be implemented immediately.	Does not arise
12	No. labour camps shall be established on Forest land.	Camps not established
13	Sufficient firewood depot shall be opened after procuring firewood from Karnataka Forest Department Corporation (KFDC).	Does not arise
14	The User Agency should ensure that there should be no damage to the available Wildlife.	All precautions are taken for the issue.
15	The approval under Forest (Conservation) Act. 1980 subject to that clearance under Environment protection Act, 1986, if required.	Does not apply
16	The Forest land shall not be used for any purpose other than that specified in the proposal.	No sub division has taken place
17	Along the banks of the reservoir plantations shall be raised and maintained by the State Forest Department.	Since the bank of reservoir is thickly wooded area. The question of raising plantation does not arise.
18	All the funds obtained as Net Present Value of diverted forest land should be deposited with Compensatory Afforestation fund management and planning authority (CAMPA).	The User Agency has paid Rs. 1192.32 Lakhs.
19	All the safeguard and conditions stipulated by the Indian Board of Wildlife (IBWL) shall be strictly followed	-
20	The Catchment Treatment works shall be executed as per the plan under supervision of the State Forest Department	Already Catchment Treatment plan submitted to (PCCF) for rs.14.06 Crores. On 30.07.2011.
21	Irrigation Department should provide water canal raise irrigated plantations by the Forest Department as and when required.	The User Agency will be requested to carry the works as and when necessary as stipulated condition.
22	Necessary funds shall made available to the Forest Department for Raising Road side and Canal side plantations all along the stretch falling in the jurisdictions(to be estimated by Forest Department)	Complied

23	The User Agency As to pay the Net Present Value (NPV) fixed by Govt. Vide notification No. FEE, 247 FGL 2002 Dated:17.01.2004.	The User Agency as paid Rs.1192.32 Lakhs (Through RTGS, SBM, Kundapura Dt:11.03.2010)
24	The Lessee has to pay the lease rent as fixed by the Govt. Of Karnataka from time to time	Lease rent fixed Rs. 1000 per Ha. As per Govt. Order FEG 69/FFM/1996 Dated:01.12.1997. The User Agency has Paid Rs. 9.072 Lakhs as full lease rent.
25	The User Agency shall pay the cost of raising compensatory Afforestation at the rate prevailing at the time of approval (Now at present it is Rs.54,200/Ha).	The User Agency has paid Rs. 70.2432 Lakhs (Vide DD No:072203 Dated:01.10 2001).
26	The User Agency shall be pay the cost of extraction of trees as estimated by the Forest Department.	The User Agency has paid Rs. 125.56 lakhs (Vide Challan No: 30/06.06.2007, 03/20.12.2008)
27	Any other conditions stipulated by Government of India state Government/Principal Chief Conservator of Forests, Karnataka from time to time in the interest of conservation protection or development of Forest.	Does not arise.

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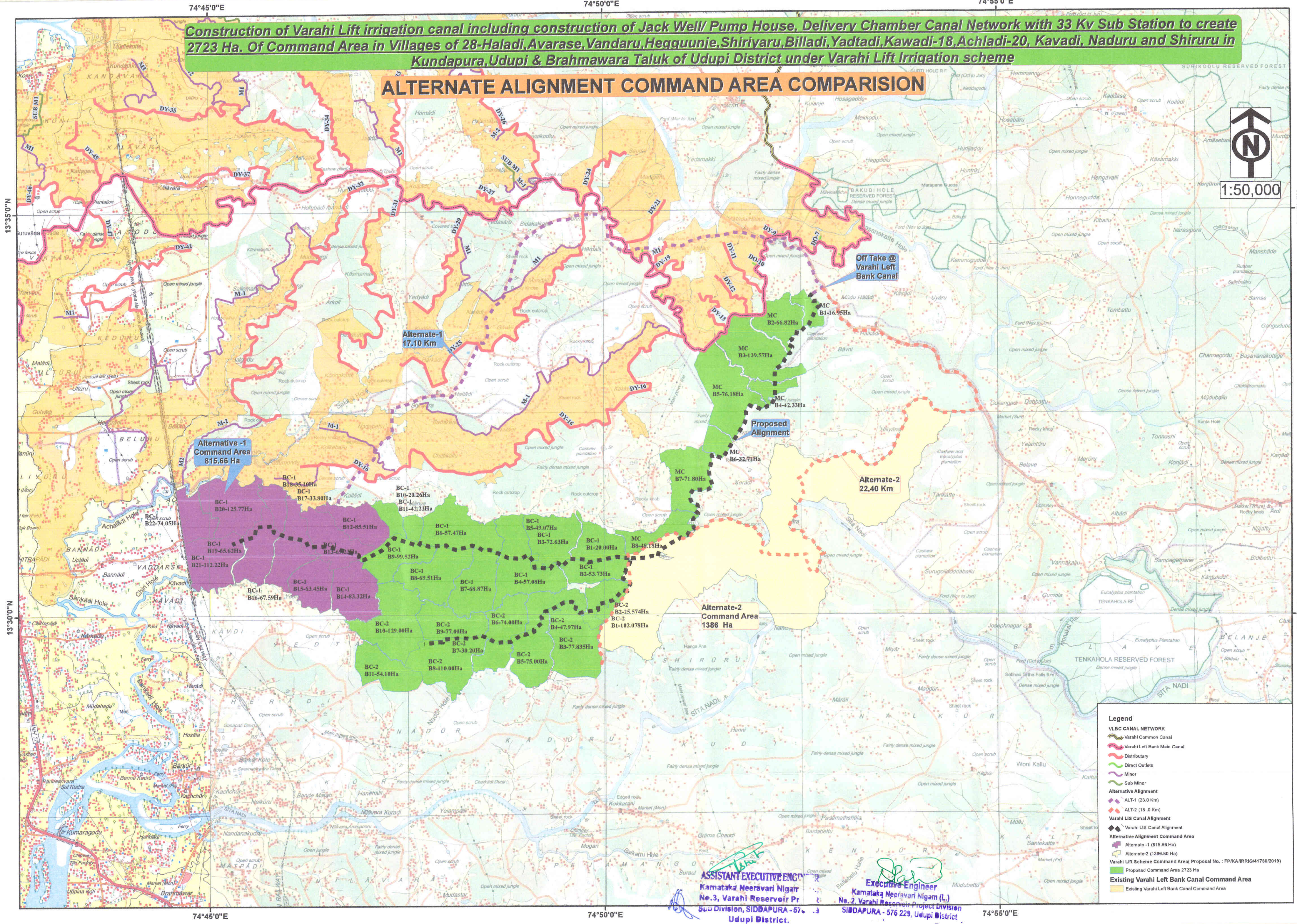
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Construction of Varahi Lift irrigation canal including construction of Jack Well/ Pump House, Delivery Chamber Canal Network with 33 Kv Sub Station to create 2723 Ha. Of Command Area in Villages of 28-Haladi, Avarase, Vandaru, Heggunje, Shiriyaru, Billadi, Yadtadi, Kawadi-18, Achladi-20, Kavadi, Naduru and Shiruru in Kundapura, Udupi & Brahmawara Taluk of Udupi District under Varahi Lift Irrigation scheme

ALTERNATE ALIGNMENT COMMAND AREA COMPARISON



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