

JUSTIFICATION FOR ALTERNATIVE ALIGNMENTS

(Certificate of Project Authority)

This is to certify that proposal for diversion of **19.8469 Hectare** Reserve and Protected Forest Land for the project namely - **"Forest Land Diversion proposal for RRP 2 additional works of roads & bridges in Somanpalli-Zinganoor via Kopela ODR 68 & MDR 26 (length -16.960 km) Sironcha tehsil Gadchiroli district in Maharashtra State"** is already an existing dirt / earthen road/ track.

Further, to give connectivity through all weather road to villages in LWE Area and to connect the area with another road network (SH, MDR, the existing road is required to be widened to single lane as per standard of PMGSY Road because;

- It is the best suitable alignment from technical point of view and requiring minimum forest area.
- Earthwork cutting and banking is minimum.
- Minimum possible numbers of trees are affected.
- Road gradients are suitable for traffic.
- There is no suitable alternative non-forest land to construct the road.
- The proposed widening of project road is mostly on existing road.

As the road is for connectivity in LWE area, alternatives examined for this project is not enclosed in the Diversion of forest land Proposal under forest (Conservator) Act 1980.

Date: - 24/12/2020

Place: - Allapalli

Executive Engineer
PWD - Allapalli, Gadchiroli,
Name- Atul Kumar Meshram



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Status of settlement of rights under the Forest Right Act, 2006

(Certificate/Undertaking of Project Authority)

As per the provision and in compliance of the Ministry of Environment Forest & Climate Change (MoEFCC), Government of India, letter no. 11-09/98-FC(pt.) dated 3rd August 2009 wherein the MoEF issued guidelines on submission of evidences for having initiated and completed the processes of settlement of right under the scheduled Tribe and Other Traditional Forest Dweller (Recognition of Forest Right) Act 2006 ("FRA for short") on the forest land proposed to be diverted for non-forest purpose with MoEFCC's letter dated 5th February 2013 wherein MoEFCC issued certain relaxation in respect of liner projects.

This is certified that at the time of uploading forest land diversion proposal, "FRA" is not completed and is under progress for the project namely --"Forest Land Diversion proposal for RRP 2 additional works of roads & bridges in Somanpalli-Zinganoor via Kopela ODR 68 & MDR 26 (length -16.960 km) Sironcha tehsil Gadchiroli district in Maharashtra State".

Further, we hereby please to give undertaking that applicable procedure will be followed as per provision & process of FRA in notified LWE Area and the "FRA" certificate will be uploaded/submitted to concerned Forest Department in prescribed format (Form-1, for linear projects).

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Undertaking to adhere Standard Conditions stipulated by Forest Department

Name of Proposal: - "Forest Land Diversion proposal for RRP 2 additional works of roads & bridges in Somanpalli-Zinganoor via Kopela ODR 68 & MDR 26 (length -16.960 km) Sironcha tehsil Gadchiroli district in Maharashtra State".

This to certify and undertake that all applicable standard conditions as prescribed by MoEFCC for forest land diversion in relation to road project shall be acceptable to Proponent. The conditions to be imposed at the time of according Stage-I approval and to be complied with before Stage II approval shall be agreed and acceptable.

The General and Standard conditions prescribed by MoEFCC and will be acceptable to proponent are as follows;

General Conditions

- i. Cost of compensatory afforestation as per the CA scheme may be realized from the user agency;
- ii. Net Present Value (NPV) of the forest land being diverted for non-forestry purpose may be realized from the user agency, as per Ministry's directions issued vide letters No. 5-3/2007-FC dated 5th February 2009 and Hon'ble Supreme Court of India's Order dated 30th October 2002, 28th March, 2008, 24th April, 2008 and 9th May 2008;
- iii. As per orders of the Government of India vide letter No. 5-2/2010- CAMPA dated 24.06.2011, the net present value of the forest land and all other CA levies shall be deposited in State specific CAMPA account (s) maintained by the Ad-hoc CAMPA at New Delhi and this office may be informed along with a duly filled in prescribed proforma;
- iv. The user agency shall furnish an undertaking to pay additional amount of NPV, if so determined as per final decision of the Hon'ble Supreme Court of India; and
- v. A certificate in respect of complete settlement of rights, in terms of the Scheduled Tribes and Other Traditional Forest Dwellers (Recognition of Forest Rights) Act, 2006, if any, on the forest land proposed to be diverted along with documentary evidence stipulated by the Ministry in its letter No. 11-09/1998-FC (pt) dated 3rd August, 2009, 5th February, 2013, and 5th July, 2013, as applicable to this project, be submitted.

The use of forest land will not be allowed till final approval is accorded.

To be complied with after Stage II approved is accorded (These Conditions shall also be Imposed at the time of according Stag-II Approval)

(1) General condition

1. Legal status of the forest land will remain unchanged;
2. The forest land will not be used for any other purpose than that mentioned in the proposal;

3. The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department, or person without approval of the competent authority.
4. The layout plan of the proposal shall not be changed without the prior approval of the Central Government.
5. No damage will be done to the adjoining forest land;
6. No labour camp shall be established on the forest land;
7. Compensatory afforestation will be done within one year from the date of issue of final approval over the extent of land as approved, out of the funds provided by the user agency;
8. The user agency shall carry out muck disposal at pre-designated sites in such a manner so as to avoid its rolling down and should be taken up as per the scheme approved by the Forest Department
9. As recommended by the Geologist and Task Force, the required soil conservation measures should be taken up by the user agency for which fund should be provided as per the current rate of works;
10. The User Agency shall provide firewood preferably alternate fuels to the labourers and the staff working at the site so as to avoid any damage and pressure on the nearby forest areas;
11. The boundary of the forest land being diverted shall be demarcated on ground at the project cost, using four feet high RCC pillars, each pillar inscribed with the serial number, DGPS coordinates, forward and backward bearings and distance from pillar to pillar etc.;
12. The User Agency shall ensure that because of this project, no damage is caused to the flora and the wildlife available in the area;
13. The user agency will assist the State Government in conservation and preservation of flora and fauna of the area in accordance with the plan prepared by the Chief Wildlife Warden of the State.
14. The user agency in consultation with the State Government shall create and maintain alternate habitat/home for the avifauna: whose nesting trees are to be cleared in this project. Bird's nests artificially made out of eco-friendly material shall be used in the area, including forest area and human settlements, adjoining the forest area being diverted for the project;
15. Any other condition that this Regional Office may stipulate, from time to time, in the interest of conservation, protection and development of forests & wildlife;
16. The User agency shall submit the annual self-compliance report in respect of the above conditions to the State Government and to the concerned Regional Office of the Ministry regularly; and
17. It will be the responsibility of the State Government/User Agency to obtain all other prior approvals/clearances under all other relevant Acts/Rules/Court's Rulings/instructions, etc., including environmental clearance, as applicable to this proposal.
18. The Regional Office may revoke/suspend the clearance, if implementation of any of the above conditions is not satisfactory. State Government will ensure compliance of these conditions through forest department.

(Specific Conditions for Road Project)

- i. User agency shall endeavor to avoid felling of trees existing on the forest land proposed to be utilized. If unavoidable, in any cases not more than.....trees andplants will be removed; (Number of trees to be jointly verified)
- ii. The trees should be felled under strict supervision of the State Forest Department;
- iii. The User agency shall consult organization(s) having experience in construction of roads in hilly areas to avoid frequent road blockade due to landslides, etc., and shall provide breast walls and retaining walls wherever necessary.
- iv. The user agency shall raise strip plantation on both sides and central verge of the road at the project cost as per IRC specifications with maintenance of seven to ten years. User agency shall also submit design of providing at least two to three rows of long rotation indigenous trees, as per provisions of IRC-SP -21-2009 (guidelines on landscaping and tree plantations) on either side of road before final clearance;
- v. The User Agency shall not collect any toll from the vehicles carrying forest officers on duty;
- vi. A study may be commissioned by the Government to assess the impact of tree felling along the roads including resultant impact of winds and storms due to likely loss of shelter belt.

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Undertaking to adhere Task Force Recommendations

Name of Proposal- "Forest Land Diversion proposal for RRP 2 additional works of roads & bridges in Somanpalli-Zinganoor via Kopela ODR 68 & MDR 26 (length -16.960 km) Sironcha tehsil Gadchiroli district in Maharashtra State".

This is to certify that the recommendations of "Task Force" constituted by Planning Commission as detailed below and whatsoever applicable in above said project road are fully acceptable to this office.

1. Lay out of the Land be followed as far as possible
2. Heavy cutting/filling be avoided as far as possible. The technology of cut and fill method is to be adopted. Steep hill slopes also be avoided.
3. Unstable/Slide-Prone areas to be avoided. For identifying such areas, the advice of Geotechnical engineers and geologists to be taken during the survey for the alignment.
4. Comparison of various possible alignments with reference to erosion potential be made and the alignment involving minimum erosion risk be performed.

Apart from the stage of planning the road alignment, effective steps are also required to be taken by ground engineer during the process of road construction for minimized ecological disturbance to the hill roads. Broadly the measures to be taken have been identified as;

- a. Cut and Fill method to be adopted while excavating for road formation and heavy earth cutting is to be avoided. Box cutting is to be avoided to the extent possible.
- b. Blasting by explosives is to be restricted to the minimum. Lay out of holes to be drilled for blasting is to be planned keeping in the view of line of least resistance and the existence of Joints. Controlled Blasting should be repeated using low charge and care to be taken to avoid activating slide zones or widening fissures and cracks in rock. Use of delay detonators in large scale blasting work is to be made for aniline dispersion of shock waves so that minimum disturbance is caused to the rock stratum as a result of the blasting process.
- c. All cut slopes, unusable hill side and slide prone erosion prone areas are to be provided with suitable correction measures by using one or the other of the techniques developed by CRRRI. Several techniques have been sponsored by CRRRI like simple vegetative turning, bitumen much treatment and slide treatment by jute netting coir netting of these simple vegetative turning seems to be the most appropriate preventive measure in many situations. This should be established in the denuded slopes immediately after the excavation is made.

- d. Adequate drainage measures and protective structures like intercepting catch water drains, longitudinal drains/culverts, breast walls, retaining walls are provided for purposes of establishing the slips. Growth vegetative cover is stimulated in the disturbed hill slopes above the road level by planting suitable fast-growing shrubs and plants. In certain selected unstable areas terraced has also been plasticized as a stabilizing measure with good results
- e. Over the past few years the roads wing of the Ministry of Shipping and transport has issued instruction laying down broad guidelines and check list of the preparation of road construction projects which provide an inbuilt mechanism of tackling landslides/erosion control for the guidance and follow up action by engineers of state 'PWD' Border Roads Organization and other engaged in construction of hill roads, these should be observed.

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Muck Disposal Plan

Name of Project: - "Forest Land Diversion proposal for RRP 2 additional works of roads & bridges in Somanpalli-Zinganoor via Kopela ODR 68 & MDR 26 (length -16.960 km) Sironcha tehsil Gadchiroli district in Maharashtra State".

SL	Particulars	Remarks
1	Calculation of muck to be generated. Swell factor to be applied.	Since, the project road alignment is entirely located in plane area having no scope of tunneling or hill cutting / deep excavation and accordingly NO muck will be generated due to additional widening of project road. Accordingly, no calculation and swell factor is applicable. It is to be noted that to raise Final Road/ Level (FRL)/ Road Embankment/ Bypasses, significant quantity of earth material will be required instead of generation of muck.
2.	Quantity of muck to be utilized in the project activities	As stated in above column, generation of Muck is very unlikely. However, some construction debris are likely to be generated and which will be utilized (like leveling, making approach road, worker camp etc) in project work and no disposal is required.
3.	Balance quantity of muck which requires disposal/ management plan.	No Balance quantity is estimated, construction related debris will be utilized in project work.
4	Carriage of muck from the muck generation site to the dumping site.	Not applicable, due to above mentioned reason in column no. 1 & 2.
5.	Ownership of land and the consent of land owners in case muck disposal is proposed on non-forest land.	Not applicable, due to above mentioned reason in column no. 1 & 2.
6	Photograph & carrying capacity of proposed dumping site (Muck disposal site)	Not applicable, due to above mentioned reason in column no. 1 & 2.
7	Development of dumping site- construction of retaining walls and other structure as per requirement of the site. The objective is to completely stop rolling down of the muck.	Not applicable, due to above mentioned reason in column no. 1 & 2.
8	Rehabilitation of dumping site like leveling, planting of grass, shrubs and tree species.	Not applicable

Note: - Cost to be incurred on the above activities has to be given component wise. Details of dumping site including length, width and height of structures to be erected must be mentioned.

Undertaking by user agency has to be given to the effect that:

- 1. Muck management plan will be implemented by user agency and in case of non-implementation of plan; they will be liable to penalty / action at their cost*
- 2. The proposed dumping site is located away from river/ stream/ Nala.*

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Undertaking/ Certificate for NO Muck Generation and Disposal

(Project Authority)

This is to certify that as the project road alignment of the project - **"Forest Land Diversion proposal for RRP 2 additional works of roads & bridges in Somanpalli-Zinganoor via Kopela ODR 68 & MDR 26 (length -16.960 km) Sironcha tehsil Gadchiroli district in Maharashtra State"** is entirely located in plane area having no scope of tunneling or hill cutting / deep excavation. Filling to raise the FRL is much more than cutting, accordingly NO muck will be generated due to construction of project road which required to be disposed off. However, some construction debris are likely to be generated which will be utilized (like leveling, making approach road, haul road worker camp/ construction yard etc) in project work and no disposal is required.

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