



कार्यालय वनमण्डलाधिकारी, वनमण्डल शिवपुरी (मध्य प्रदेश)



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शिवपुरी, दिनांक/ 18/2/16

क्रमांक/ डी एम / 2016/ 1298

प्रति,

मुख्य वन संरक्षक
शिवपुरी वृत्त शिवपुरी

विषय :- लोअर ओर वृहद सिंचाई परियोजना के प्रस्ताव भेजने बावत् ।
संदर्भ :- अपर प्रधान मुख्य वनसंरक्षक (भू-प्रबंध) म०प्र० भोपाल का पृ०क्र०/एफ-3/77/2014/ 10-11/12/133 दिनांक 13.01.2016

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विषयांकित के संबंध में एवं संदर्भित पत्र के पालन में लोअर ओर वृहद सिंचाई परियोजना के प्रस्ताव में पाई गई कमियों की पूर्ति का बिन्दुवार प्रतिवेदन निम्नानुसार है :-

बिन्दु क्रमांक 1 वनमण्डल अशोकनगर से संबंधित है ।

बिन्दु क्रमांक 2 का पार्ट-11 नम्बर 13 (i) में वैकल्पिक वृक्षारोपण की Patch wise details अपलोड कर दिया गया है , जो इस कार्यालय के सिस्टम में ओपन हो रहा है ।

पार्ट-1 में जी.डिटेल् काष्ठ बेनीफिट एनालिसिस निर्धारित प्रपत्र में अपलोड कर दिया गया है ।

बिन्दु क्रमांक 4 इस कार्यालय से संबंधित नहीं है ।

प्रतिवेदन सूचनार्थ एवं आवश्यक कार्यवाही हेतु सम्प्रेषित है ।

संलग्न :- उपरोक्तानुसार ।

आर.एस.कोरी
(भा.व.से.)

वन संरक्षक
वनमण्डल शिवपुरी

**LOWER ORR MAJOR IRRIGATION PROJECT
COST-BENEFIT ANALYSIS
PARAMETRE FOR EVALUATION OF LOSSES OF FOREST**

S.NO	PARAMETER	IRRIGATION PROJCT
1	Loss of value of timber, fuel wood & minor forest produce on annual basis including loss of man hours of people who derived livelihood & wages from the harvest of these commodities.	Total 968.24 ha forest area is coming under the submergence of lower major irrigation project and total 944 nos. families are to be displaced and rehabilitated at suitable place. The project will provide 67570 Ha annual irrigation with annual intensity 150%. Amount Rs. 9.68 Lakhs is worked out due to losses of Tendu Patta. (Tendu Patta production Rs. 1000/Ha)
2	Loss of animal husbandary productivity inclusive of loss of fodder.	Loss of Fodder Amount Rs. 48.41 Lakhs (Rate of fodder loss is 0.5 tonne /ha and price of fodder is Rs. 10/Kg)
3	Cost of human resettlement.	Amount Rs. 3996.35 Lakhs (Amount is taken from R & R Report)
4	Loss of public facilities & administrative infrastructure of forest land or which would required forest land if facilities were diverted due to project.	Based on the preliminary survey there is no loss of any facilities or existing infrastructure in the forest area coming under the dam submergence.
5	Environmental losses (soil erosion, wild life,habitant,effect on hydrological cycl, micro climate up setting of ecological balance)	Amount Rs. 981.71 Lakhs/ Year (Rs.126.74 Lakhs/Ha for 1 density forest for 50 years. In this case forest density taken 0.40 and environmental losses taken for 1 years.)
6	Suffering oustees.	Villagers have agriculture based economy and cattle rearing are the supporting source of income for them. Calculation of income and expenditure from these two sectors is a complex job because the villagers are not able to explain their income properly. They neither calculate their income nor they maintain the accounts of their day to day expenditure.

(P D KORI)

Executive Engineer
Rajghat Canal Disnet Division
Khaniyadhana, Dist.-Shivpuri (MP)

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वनमण्डल अधिकारी
वनमण्डल (सा.) अशोकनगर

**LOWER ORR MAJOR IRRIGATION PROJECT
COST-BENEFIT ANALYSIS
PARAMETRE FOR EVALUATION OF BENEFITS**

S.NO	PARAMETER	IRRIGATION PROJCT
1	Increase in productivity attributed to the specific project.	The Lower Orr major project is conceived to irrigation water to 45047 Ha CCA in 146 villages of dist. Shivpuri and Datia. Annual irrigation is proposed 67570 Ha with annual intensity 150%. Total annual benefit in the terms of productivity have been worked out as 3698444 qtl. from 780105 qtl. Therefore total annual profit is worked in terms of amount Rs. 25729.30 Lakhs.
2	Benefit to economy.	The main objective of Lower Orr Major project to provide irrigation water to CCA 45047 Ha. And 6 MCM water reserved for drinking water for the population of 1.65 Lakhs. It will generate the revenue of about Rs. 15.60 Lakhs in addition to this the benefits from fisheries development in the submergence area would be Rs. 3592.00 lakhs.
3	Number of population benefitted.	Lower Orr project will provide irrigation facilities to CCA 45047 Ha in 146 villages coming under the district Shivpuri and Datia.
4	Employement potential.	During the construction period for 5 years temporary and permanent nature type employment will generate. About 1950 person of 35 villages around the dam site will get the employment per day. Total nos. of employment would be about 4270000 mandays. The construction of the Project will result in increase of tourist recreation facilities generating the opportunities of self employment to the local population.
5	Cost of aquisition facility on non forest land wherever feasible.	No human commodity will affected due to construction of project.
6	Loss of (a) Agriculture & (b) Animal Husbandary production due to diversion.	No loss of agriculture envisaged. In fact present object has been proposed for the improvement of agriculture in this area. No loss in the Animal Husbandary production.
7	Cost of rehabilitating the displacement persons as different places.	Amount Rs. 21568.82 Lakhs
8	Cost of supply of free fuel-wood to workers residing in or near forest area during period of construction.	During project construction phase, labour population is likely to congregate near various construction sites. It can be assumed that the technical staff likely to congregate will be of higher economic status and will live in a more urbanized habitat, and will not use wood as fuel. However, workers and other population groups residing in the area may use fuel wood (if no alternate fuel is provided) for whom firewood/coal depot could be provided. As per the EIA study about 1241000 quintals or 155000 cum fuelwood estimated for the labours during the construction phase of 5 years. About 62000 trees will be cut to meet the fuelwood requirements to the labour. Hnce to minimize the imapcts, community kitchen have been provided. Thus provision for cost of fuel-wood made nil.
9	Total benefit due to project.	Rs. 7768.08 Lakhs per annum.

Cost Benefit Analysis :-

(i) Total benefit due to project	7768.08 Lakhs
(ii) Total annual cost	3446.81 Lakhs 5036.16 Lakhs
(iii) Benefit cost ratio	2.47 1.54
(iv) Cost Benefit Ratio	0.41 0.65

(Signature)
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