

Saurashtra Chemicals Division of Nirma Limited
Khijadia Salt Works – Khijadia

Project Report:

Sub: Diversion of 0.3750 Hector Forest Land for non-forest use.

General:

Government of Gujarat has granted us 971 Hectors of Land on Lease of manufacturing of industrial salt for its captive consumption for manufacturing of Soda Ash at Porbandar plant. The Land has been divided into 2 parts as sea creek has been passing in Part 1 area measures 650 Hectors while Part 2 area is 250 Hectors. Due to this there is no approach for movement of machinery.

At present we are having wooden bridge in between this 2 part & we are using this bridge for transfer of brine through pipe line from part 2 to part 1. In part 2 we are circulating sea water for evaporation in reservoir & condenser & after getting concentrated brine through pumps this brine we are pumping in to part for further evaporation & finally it is feed into large crystallizer for salt crystallization. Crystallized salt then harvested & stacked in staking area for further manual washing & after getting desire quality specification this salt will be dispatched to our soda ash plant at porbandar through road.

Salt works Layout design consist mainly outer bunds & internal bunds prepare from earth & top layer coating from hard Murom. Outer bund is outer boundaries of salt works which protect the salt works against flooding of storm water & sea water during high tides.

Design of Road:

We will make 400 MM to 500 MM bund thick layer of hard Murom with metal and bolder. The bottom width will be 14 Meter & top width will be 13 Meter² nos. small creek are passing in this road where we will make 300 MM rubble soling of stone in the bottom & then 40 MM to 50MM PCC on it then we will make 10 layer of Hume pipes of 900 MM diameter. (4x10=40 Nos.) in creek-1 & (4x5=20 Nos,) in creek-2. After fixing Hume pipes then a layer of 400 MM to 500 MM of hard Murom will be spread on it so that easily movement of machinery can be made. By putting this Hume pipes in the bottom of the creek the movement of sea water flow will not be restricted during high tides. During monsoon this Hume pipes will also allow storm water to drain in sea,

Justification:

1. As this road is very useful for connecting part-1 & part-2 area as there is no any road for this area. For the movement of machinery of machines like excavator, tractor trailer & other earth moving equipment will be easily transported from this road.
2. We will also use this road for transportation of concerted brine through HDPE pipes from part-1 to part-2.
3. Electricity, LT line will be erected on this road for electrification in part-2.

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4. For the repairing of bunds and other civil work same materials will be transported from this road.
5. Marine Gypsum is the by product in the process of salt production, we will be able to produce Marine Gypsum in part-2 & this product will be also transported easily from this road.
6. In future if we plan to produce salt in part-2 then by putting small conveyor belt this product can also be shifted to part-1 by using this conveyor belt.
7. For operation & Monitoring of this part-2 salt field manpower can also easily approach by using this road.

Sir, as this road will be very useful for connecting part-1 & part-2 area, so we humbly request you to consider our proposal.

For Saurashtra Chemicals Division of Nirma Limited.
Khijadia Salt Works.



(H,K,Gswami)
Manager Salt Works.