

Muck Quantity Details

➤ For Pump House No. 1 (Under Gwalior Forest area)

Total Length of MS Pipe Passing the Forest = 1.61 Kms

Dia of MS Pipe Coming under Forest Area = 1900 mm

Quantity of Excavation as per attached Drawing,

Size of Trench = 3.00m x 2.50m

Total Volume of Soil Excavated = $3.00 \times 2.50 \times 1.61 \times 1000$

Total Quantity = 12075 Cum

Refilling will be done after laying of Pipe, So the Quantity Remaining After Laying Should be Equal to Total Volume of Pipe,

Which is = $\pi/4 \times 1.9^2 \times 1.61 \times 1000 = 4563 \text{ Cum}$

Soil Spread Equally 0.50m height over Pipe Line in 6.00m width For approach road purpose, Hence Total Qty Req. For Approach road Purpose is = $1.16 \times 1000 \times 6.00 \times 0.50 = 4830 \text{ Cum}$

So all Soil will be utilized, Hence no muck generate in Pump House No.1 under Gwalior Forest Area.



(Anil Dixit)

Project Administrator
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➤ **For Pump House No. 2 (Under Datia Forest area)**

Total Length of MS Pipe Passing the Forest = 10.10 Kms

Dia of MS Pipe Coming under Forest Area = 1900 mm

Quantity of Excavation as per attached Drawing,

Size of Trench = 3.00m x 2.50m

Total Volume of Soil Excavated = $3.00 \times 2.50 \times 10.10 \times 1000$

Total Quantity = 75750 Cum

Refilling will be done after laying of Pipe, So the Quantity Remaining After Laying Should be Equal to Total Volume of Pipe,

Which is = $\pi/4 \times 1.9^2 \times 10.10 \times 1000 = 28622$ Cum

Soil Spread Equally 0.50m height over Pipe Line in 6.00m width For approach road purpose, Hence Total Qty Req. For Approach road Purpose is = $10.10 \times 1000 \times 6.00 \times 0.50 = 30300$ Cum

So all Soil will be utilized, Hence no muck generate in Pump House No.2 under Datia Forest Area.



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Excavation Trench Detail

NGL

