Office of the Executive Engineer PHED City Dn I Ajmer

AREA CALCULATION SHEET

OHSR 190 KL Capacity:

Base dia of OHSR= 8.30 m (as per design)

Base area of OHSR= $3.14 \times 8.30^2/4 = 54.07 \text{ m}^2$

Boundary wall of OHSR:

External dia of boundary wall= 16 mtr

Total area enclosed within boundary wall= $3.14 \times 16^2/4 = 200.96 \text{ m}^2$

Rising main pipeline entering the OHSR on forest land:

Length= 82 mtr

Dia=150 mm=0.15 mtr

Total area of rising pipeline=12.3 m^2

Distribution pipeline from the OHSR on forest land:

Length= 64 mtr

Dia=150 mm=0.15 mtr

Total area of rising pipeline=9.6 m^2

Length= 23 mtr

Dia=100 mm=0.10 mtr

Total area of rising pipeline=2.3 m^2

Total area required for Rising and distribution pipelines = 24 m^2 (approx)

Net forest land required(Area enclosed within boundary wall+ Area required by pipelines)≈ 225 m^2

Assistant Engineer

PHED City sub Dn I Ajmer

Executive Engineer

PHED City Dn I Ajmer