

7. RESULT/ RECOMMENDATIONS:

- ❖ Based on drilling data the rock strata found at the point of drilling is completely weathered in nature in entire running depth with nil or very low core recovery upto 6.0 m depth further as reported in clause 8.0
- ❖ Raft/Isolated footings can be provided for the foundation of the proposed structures.
- ❖ Water table was encountered from top.
- ❖ The report is subjected to sample found during site investigation in presence of customer/customer's representative.
- ❖ Settlement analysis is done for 50mm permissible settlement.
- ❖ Since core recovery is very less the calculation is done as per following guidelines of RDSO/Text book.

BH-1

Depth m	Type of foundation	Size of foundation (M)	General Shear Failure Criteria T / m ²	Local Shear Failure Criteria T / m ²	Interpolated Value from Column 4 &5 (As per IS 6403- 1981) T / m ²	Settlement Criteria T / m ²	Recommended Safe Bearing Capacity (T / m ²) (Lower of columns 7 & 6 & rounded down)
1.50	Raft/ Isolated Footing	5.00	14.84	5.06	9.46	56.61	9.0
3.00		5.00	28.18	9.54	21.66	63.51	21.5
4.50		5.00	45.91	15.16	36.69	69.44	36.5
6.00		5.00	57.50	19.04	53.65	75.48	53.5

BH-2

Depth m	Type of foundatio n	Size of foundation (M)	General Shear Failure Criteria T / m ²	Local Shear Failure Criteria T / m ²	Interpolated Value from Column 4 &5 (As per IS 6403- 1981) T / m ²	Settlement Criteria T / m ²	Recommended Safe Bearing Capacity (T / m ²) (Lower of columns 7 & 6 & rounded down)
1.50	Raft/ Isolated Footing	5.00	17.11	5.65	11.95	56.61	11.5
3.00		5.00	32.44	10.62	22.62	63.51	22.5
4.50		5.00	46.47	15.35	35.58	69.44	35.5
6.00		5.00	65.36	20.94	56.47	75.48	56.0

BH-3

Depth m	Type of foundatio n	Size of foundation (M)	General Shear Failure Criteria T / m ²	Local Shear Failure Criteria T / m ²	Interpolated Value from Column 4 &5 (As per IS 6403- 1981) T / m ²	Settlement Criteria T / m ²	Recommended Safe Bearing Capacity (T / m ²) (Lower of columns 7 & 6 & rounded down)
1.50	Raft/ Isolated Footing	5.00	14.75	5.03	9.41	56.61	9.0
3.00		5.00	28.02	9.48	21.53	63.51	21.5
4.50		5.00	40.19	13.71	29.60	69.44	29.5
6.00		5.00	57.50	19.04	45.96	75.48	45.5