

Annexure-2
COST ANALYSIS

COST ESTIMATE FOR CONTROL SLAB S1

Materials	Rate	Cost (Rupees)
Cement	2.5 bags @ 410	1025
Sand	0.16 m ³ @ 800	128
Aggregate	0.21 m ³ @ 1200	252
Steel Reinforcement	24 kg @ 45	1080
Shuttering		1000
Total material cost		3485
Mason	1 @ 350	350
Mazdoor	1 @ 200	200
Bar Binder	1 @ 250	250
Bishti	1 @ 250	250
Total Cost		1050
Add 3% for Tools and Plants		31.5
Total Labour cost		1081.5
Total Cost = Material Cost + Labour Cost		4566.5
Add 10% contractor profit		456.65
Total cost		5023.15

COST ESTIMATE FOR GFRP RETROFITTED SLAB S1

Materials	Rate	Cost (Rupees)
GFRP	4.1125 m ² @ 662.50	2724.53
Epoxy	1 slab @ 975	975
Cost involved in control slab		5023.15
Total Cost for GFRP Retrofitted Slab		8722.68

COST ESTIMATE FOR MILD STEEL RETROFITTED SLAB S1

Materials	Rate	Cost (Rupees)
Mild Steel Plate	4.1125 m ² @ 200	822.50
Epoxy	1 slab @ 975	975
Cost involved in control slab		5023.15
Total Cost for Mild Steel Retrofitted Slab		6820.65

COST ESTIMATE FOR FERROCEMENT RETROFITTED SLAB S1

Materials	Rate	Cost (Rupees)
Wire Mesh	4.1125 m ² @ 40	164
Cement	0.59 bag @ 410	241.9
Sand	0.08 m ³ @ 800	64
Cost involved in control slab		5023.15
Total Cost for Ferrocement Retrofitted Slab		5493.05

COST ESTIMATE FOR CONTROL SLAB S2

Materials	Rate	Cost (Rupees)
Cement	2.25 bags @ 410	922.5
Sand	0.15 m ³ @ 800	120
Aggregate	0.19 m ³ @ 1200	228.4
Steel Reinforcement	21 kg @ 45	945
Shuttering		1000
Total material cost		3215.5
Mason	1 @ 350	350
Mazdoor	1 @ 200	200
Bar Binder	1 @ 250	250
Bishti	1 @ 250	250
Total Cost		1050
Add 3% for Tools and Plants		31.5
Total Labour cost		1081.5
Total Cost = Material Cost + Labour Cost		4297
Add 10% contractor profit		429.7
Total cost		4726.7

COST ESTIMATE FOR GFRP RETROFITTED SLAB S2

Materials	Rate	Cost (Rupees)
GFRP	3.6801 m ² @ 662.50	2438.06
Epoxy	1 slab @ 975	975
Cost involved in control slab		4726.7
Total Cost for GFRP Retrofitted Slab		8139.76

COST ESTIMATE FOR MILD STEEL RETROFITTED SLAB S2

Materials	Rate	Cost (Rupees)
Mild Steel Plate	3.6801 m ² @ 200	736.02
Epoxy	1 slab @ 975	975
Cost involved in control slab		4726.7
Total Cost for Mild Steel Retrofitted Slab		6437.72

COST ESTIMATE FOR FERROCEMENT RETROFITTED SLAB S2

Materials	Rate	Cost (Rupees)
Wire Mesh	3.6801 m ² @ 40	147.20
Cement	0.52 bag @ 410	213.2
Sand	0.08 m ³ @ 800	64
Cost involved in control slab		4726.7
Total Cost for Ferrocement Retrofitted Slab		5151.1

SUMMARY OF COST ESTIMATION

S. No.	Particular	Cost for Slab S1 (Rs.)	Cost for Slab S2 (Rs.)
1	Cement	1025	922.5
2	Sand	128	120
3	Aggregates	252	228
4	Steel Reinforcement	1080	945
5	Shuttering	1000	1000
6	Labour Cost	1081.50	1081.50
7	10% Contractor Profit	456.65	429.7
Total Cost of Control Slab		5023.15	4726.7
8	GFRP (including epoxy material)	3699.53	3413.06
Cost of GFRP Retrofitted Slab		8722.68	8139.76
9	Cost of Mild Steel	1797.5	1711.02
Cost Of Mild Steel Retrofitted Slab		6820.65	6437.72
10	Ferrocement	469.9	424.4
Cost of Ferrocement Retrofitted Slab		5493.05	5151.1