

GEOSYNTHETIC ITEMS				
Sr. No.	Description of Item	Unit	Item Rate	Labour Rate
1	Providing and laying CE Marked Woven Polypropylene Geotextile of Techfab India indigenously manufactured from black UV stabilized polypropylene tape yarn on the prepared subgrade for Reinforcement cum separation cum drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: IRC:SP:59-2002 & MORTH Section-700)			
	a)TFI-5300 Type-I	Sqmt	132.00	28.75
	b)TFI-5200 Type-II	Sqmt	122.00	28.75
	c)TFI-5100 Type-III	Sqmt	111.00	28.75
2	Providing and laying CE Marked Woven Multifilament Polyester Geotextile of Techfab India indigenously manufactured using high molecular weight, high tenacity polyester filament yarn with high tensile strength, low elongation and low creep on the prepared subgrade for Reinforcement cum separation cum drainage & filtration application with necessary overlap as per drawing etc. complete. (Specification: IRC:SP:59-2002 & MORTH Section-700)			
	a) TFI-3100	Sqmt	132.00	28.75
	b) TFI-3200	Sqmt	193.00	28.75
3	Providing and laying CE Marked Needle Punched and Mechanically Bonded Non-Woven Geotextile (TechGeo) of Techfab India indigenously manufactured from high quality polypropylene staple fibres (continuous filament will not be accepted) on the prepared subgrade for separation, drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: IRC:SP:59-2002& MORTH Section-700)			
	a) TFI TECHGEO PR-15	Sqmt	105.00	28.75
	b) TFI TECHGEO PR-20	Sqmt	122.00	28.75
	c) TFI TECHGEO PR-30	Sqmt	139.00	28.75
4	Providing and Laying CE marked Knitted and PVC coated Polyester Biaxial Geogrid (Techgrid) of Techfab India for Basal Reinforcement indigenously manufactured from selected high tenacity polyester yarn with high molecular weight (> 25000 g/mol), and low carboxyl end group (<30mmol/kg) (extruded PP geogrids & Polyester strips & Geostrips, Steel Strips not allowed & not accepted). Requirement of geogrid strength in both direction and granular fill. (Coating of Geogrid/ reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating will not be allowed and will not be accepted). For reinforcement application to subgrade, unbound sub base / base courses & soil stabilization, etc. complete (Specification: IRC:SP:59-2002 & MORTH Section-700).			
	a) TFI TechGrid GeoGrid TGB-40	Sqmt	182.00	28.75
	b) TFI TechGrid GeoGrid TGB-60	Sqmt	223.00	28.75

5	Providing and laying CE Marked Reinforced Non-Woven Composite of Techfab India indigenously manufactured needle punched polypropylene (continuous filament will not be accepted), Reinforced with high tenacity Polyester Yarn on the prepared sub grade for Reinforcement cum separation cum drainage & filtration application with necessary overlaps as per drawing etc. complete. (Specification: IRC:SP:59-2002 & MORTH Section-700)		
	a) TFI TGC-60	Sqmt	189.00 28.75
	b) TFI TGC-90	Sqmt	234.00 28.75
6	Providing and inserting CE Marked Prefabricated Vertical Drain / Band Drain (TechDrain) of Techfab India indigenously manufactured with Polypropylene Core and wrapped with Non-Woven Geotextile in the very soft clay to a design depth for quick consolidation etc. complete. (Specification: MORTH Section-700).		
	a) TFI TechDrain TD-3520 U 100mm x 4mm	Rmt	65.00 2.88
	b) TFI TechDrain TD-5020 U 100mm x 5mm	Rmt	76.00 2.88
7	Providing & fixing CE Marked TechFab Metal Gabions indigenously manufactured as per required section including boxes made of mechanically woven hexagonal shaped wire mesh of type, (10 x 12)cm, edges mechanically selvaged made of heavily (Zinc + PVC) coated G.I. wires as per BS:443, mesh wire 2.70/3.70 mm Ø (ID/OD), edge wire 3.40/4.40 mm Ø (ID/OD) of Techfab India type and filled with 20 to 50 Kg weight trap stones including conveying with all leads and lifts and placing at required places in required line, level, slope, section as directed, etc. and tied by 3% lacing wire 2.20/3.20 mm Ø (ID/OD) as directed by Engineer-in-charge. For retaining walls, toe walls, etc. for slope protection & erosion control application of river bank & sea-shore etc. complete (Specification: MORTH section-700. (Excluding Rubble)		
	a) Size 1M x 1M x 1M	No.	1613.00 45.00
	b) Size 1M x 1M x 2M	No.	2878.00 90.00
	c) Size 1M x 1M x 3M	No.	4177.00 135.00
8	Providing and laying CE Marked Glassfibre GeoComposite (TechGlass AIC) of Techfab India indigenously manufactured from high performance glass fibre roving to form a reticular structural material with a unique combination of fused fibre glass and polypropylene non-woven needle punched geotextile to asphalt overlay flexible pavements and asphalt overlay distressed rigid pavements for Reinforcement, seizure reflective cracks, reduced surface rutting & water infiltration. (Specification: IRC:SP:59-2002 & MoRTH section-700).		
	a) TFI Techglass AIC-50	Sqmt	212.00 28.75
	b) TFI Techglass AIC-100	Sqmt	238.00 28.75

- 9 RE WALL (Reinforced Earth Wall) Providing and Laying CE marked Knitted and PVC coated Polyester Uniaxial Geogrid (Techgrid) of Techfab India indegeniously manufactured from selected high tenacity polyester yarn with high molecular weight (> 25000 g/mol), and low carboxyl end group (<30mmol/kg) for Reinforced soil wall (extruded PP geogrids & Polyester strips & Geostrips, Steel Strips not allowed & not accepted) with granular fill of PHI-32 degree (design is to be carried out in accordance with BS-8006 / FHWA) with concrete block by M-35 as facia, casting & erection of blocks with Techgrid, providing & laying levelling pad by M-15, providing and laying coping beam by M-35, providing and laying 300mm thick filtermedia etc. completed as per necessary drawing and instruction of Engineer-in-charge. Excluding providing, laying and compacting selected backfill and retained fill behind the wall, excavation and ground improvement, if any. The reinforced earth wall and slope should have 100% coverage of 5m width Knitted and PVC coated Polyester Geogrid. (Coating of Geogrid/ Reinforcing geosynthetic material with LDPE, Latex, Bitumen and any other coating will not be allowed and will not be accepted). (Specification: MORTH Section-700)

RE Wall Height 1 to 4 meter	Per sqmt of wall facia	4356.00	0.00
RE Wall Height 4 to 6 meter	Per sqmt of wall facia	4596.00	0.00
RE Wall Height 6 to 8 meter	Per sqmt of wall facia	4778.00	0.00
RE Wall Height 8 to 10 meter	Per sqmt of wall facia	5454.00	0.00
RE Wall Height 10 to 12 meter	Per sqmt of wall facia	6322.00	0.00
RE Wall Height 12 to 14 meter	Per sqmt of wall facia	6865.00	0.00