

**Repair and Rehabilitation of Minor Bridge at Existing Chainage 394+498
(Ambasa Bridge)**

S.No.	Description	Unit	Quantity
1	Dismantling the existing strip seal expansion joint i/c structural steel edge beam anchor plate etc. of the existing damaged expansion joint by cutting with gas cutter and breaking of concrete by mechanical means i/c disposal of rubbish & malba etc. complete as per the direction of the Engineer-in-Charge.	Rm	15.00
2	Dismantling of old and damaged concrete railings, dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts and lead of 1000 metres	Rm	88.40
3	Construction of RCC railing of M30 Grade in-situ	Rm	88.40
4	Providing Reinforced Cement Concrete M 30 grade in Approach slabs including reinforcement complete as per drawings and Technical Specifications 1500,1600 and 1700 & 2704		
	PCC M15	cum	6.44
	RCC M30 (including Reinforcement)	cum	13.65
5	Providing and fixing Strip Seal Expansion joints complete as per drawing and Technical Specification No. 2600 and confirming to MoRT&H modified interim specifications	Rm	15.00
6	Replacement of old Bearing and Supplying, fitting and fixing in position true to line and level POT/PTFE Bearing complete as per drawing and approved	Nos.	8.00
7	Removal of existing wearing coat including its disposal complete as per Technical specification without causing any detrimental effect to any part of the bridge structure and removal of dismantled material with all lifts and lead upto 1000m	Sqm	300.84
8	Providing Wearing Coat of total 65 mm thick comprising two layers of 25 mm thick Bituminous Concrete laid over a coat of 15 mm thick Mastic Asphalt as per Technical Specification Sections 509, 515, 521, & 2700.	Sqm	300.84
9	Chipping of unsound/weak concrete material with manual Chisel and/ or by standard power driven percussion type or of approved make including tapering of all edges, making square shoulders of cavities including cleaning the exposed concrete surface and reinforcement with wire brushes etc. and disposal of debris for all lead and lifts all complete as per direction of Engineer-In-Charge	Sqm	80.00
10	Disposal of building rubbish / malba / similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 m initial lead, for all leads	cum	8.00
11	Providing, mixing and applying bonding coat of approved adhesive on chipped portion of RCC as per specifications and direction of Engineer-In-charge complete in all respect. Epoxy bonding adhesive having coverage 2.20 sqm/kg of approved make	Sqm	90.00
12	Providing and inserting 12mm dia galvanised steel injection nipple in honey comb area and along crack line including drilling of holes of required diameter (20mm to 30mm) up to depth from 30mm to 80mm at required spacing and making the hole & crack dust free by blowing compressed air, sealing the distance between injection nipple with adhesive chemical of approved make and allow it to cure complete as per direction of Engineer-In-Charge.	Nos.	160.00
13	Sealing of the crack, voids porous concrete by injecting epoxy grout under a pressure of 4-5 MPa including providing nozzles/nipples of appropriate length, drilling of holes, inserting and fixing of nozzles/ nipples with approved fixing compound and epoxy putty in deck slabs, girders, piers caps etc. subsequently cutting/ removal of nozzles/nipples as necessary after completion of grouting as per technical specification MoRT&H specifications (section 2800 and 2803) inclusive of all labour, materials, equipment etc. complete as per direction and instructions of Engineer-in-charge.	Kg	160.00
14	Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per Technical specification	Sqm	20.00
15	General cleaning of drainage spouts complete including downtake pipe and sealing with approved water proofing material area around the spout with all lifts and leads complete as per drawing and as per MoRT&H Technical specifications 2705	Nos.	15.00
16	Return wall		
	a) Excavation	cum	236
	b) PCC	cum	11
	c) Backfilling	cum	107
	d) Filter Media	cum	578
	e)M35 Foundation for Return wall	cum	79
	f) M 35 Substructure for return wall		113
	g) HYSD Bars	MT	15
17	Filter media (150 mm thick) underneath pitching in slopes and flat surfaces complete as per drawing & Technical Specification Clause 2504	Cum	95
18	Pitching on sloped surfaces (300 mm thick) for earth protection complete (for Quadrants) as per drawings and Technical Specification 2504	Cum	190
19	Structural Cement concrete for Reinforced cement concrete for DIRT WALL/Bracket including centering complete as per drawing Technical specification clauses 1500,1700,2200		
	a) Conc. M25	Cum	12.92
	b) Reinforcement	Mt.	1.42
20	Providing jacketing of abutment Cap complete as per drawing and direction on engineer in charge		
	a) Conc. M25 (on both faces)	Cum	4.93
	b) Surface reinforcement	Mt.	0.54