

Scheduled of Quantities (SOQ) (NFL/NGL/C/629/2024)

Annexure - I-B

Name of Work : "Rehabilitation / Repair of Concrete Structure of Bagging-II Plant Building inside Factory Area, NFL Nangal Unit".			
Sr. No.	Description of work	Unit	Quantity
1	Providing and erecting steel props /Scaffolding (up to full height, braced at Centre, resting on wedge and block to support the structure provisionally during repair work and maintaining them in position till required and as directed by the Engineer-in-charge. Note: For the purpose of measurement, length multiply by width or height whichever is more shall be taken into consideration, so party should quote their rate accordingly.	Sq.m.	2000.00
2	Chipping of unsound weak concrete / cover of reinforcement over RCC member or as per site requirement by chieseling and disposal of malwa from site as per instruction of Engineer-in-charge.	Sq.m.	300.00
3	Supply and apply of rust remover cum passivator to remove rust from existing reinforcement. Product: Sika Rustoff 100 / Shali Rustoff or Reebakenes RR.	Kg.	100.00
4	Supply and apply a cement based polymer modified rebar corrosion protection system to existing reinforcement. Product: SikaTop@-Armatec-108. Shali prime ZNR, Nitozinc primer.	Kg.	100.00
5	Providing extra reinforcement with TMT bars as per site design requirement including straightening, cutting, bending, placing in position, binding with G.I. wire of 18 gauge etc. complete in all respects. Additional reinforcement with adequate lap length & rings at required spacing shall be tied with existing reinforcement using binding wire or welded complete as per site requirement and directions of Engineer-incharge. (NOTE: Reinforcement shall be provided by NFL free of cost)	MT	0.20
6	Providing & fixing rebar of required length & diameter with Sika AnchorFix®-3⁺ / Mungo / Fischer FISV 390 / Hilti RE-500 Epoxy resin wherever required in RCC members including power drilling, cleaning of holes, then rebars should be inserted in holes that should be filled with epoxy to ensure the bond as per manufacture recommendation complete as per site requirement and directions of Engineer-in-charge.		
	(i) 8 mm x80 mm	Nos.	10.00
	(ii) 10 mm x100 mm	Nos.	10.00
	(iii) 12 mm x 120 mm	Nos.	10.00
	(iv) 16 mm x 160 mm	Nos.	10.00

Sr. No.	Description of work	Unit	Quantity
7	Providing & fixing shear connectors of 10 mm /12 mm dia TOR steel up to 160mm length with Sika AnchorFix®-3+ / Mungo / Fischer FISV 390 / Hilti RE-500 Epoxy resin RCC members including power drilling, cleaning of holes, insertion of epoxy, placing shear connectors in position to ensure the bond as per manufacture recommendation complete as per site requirement and directions of Engineer-in-charge.	Nos.	10.00
8	Drilling and fixing Non corrosive injection packers(Aluminium based) in RC members including, Drilling Holes: Drilling holes in structural members at the intervals as per recommendation of engineer in charge. Cleaning of holes: Clean the holes by air blower prior to fixing nozzles. Fixing of Packers: Insert 12 mm dia., 75~100 mm long injection packers in cleaned holes with moisture insensitive epoxy resin based putty or equivalent. Cutting of Packers: Cut the packers by cut of wheel after completion of grouting without damaging structural elements.	Nos.	50.00
9	Supply & Apply of two part, low viscosity, moisture insensitive injection-liquid, based on high strength epoxy resin. Product: Sikadur®-55 LP(IN). Shaligrout EI, conbextra EP10LV.	Kg.	100.00
10	Providing, mixing & applying two component Epoxy resin concrete Bonding coat on prepared RCC surfaces as per manufacture specification including preparation of surface by chipping and thorough cleaning of surface complete wherever required and as per directions of Engineer-in-charge. Product: Sikadur®-32 LP. Shalibond concrete, nitobond EP.	Sq.m.	300.00
11	Supply and apply a pre-batched trowelable mortar which is dual shrinkage compensated, thixotropic high strength formulation for structural concrete repairs. Max.Layer Thickness -5mm to 50 mm vertically and 5-15mm Overhead in single go. (It can be increased if applied in steps.) Product: Sika MonoTop®-122 F, Shalifix-FRM ,Renderoc HS Extra, smartcare repair motar .	Cu.m.	5.00
12	Providing and fixing water tight centering and shuttering including bolting, strutting, propping etc. including removal of form work from column, beam etc. complete as per site requirement and directions of Engineer-in-charge.	Sq.m.	300.00
13	Supply and apply a ready to use non shrink, cementitious free flow micro-concrete (> 100 mm). Product: SikaRep® Microcrete-4, Shalifix- MC, Renderoc RG, Smartcare microconcrete LH/HS.	Cu.m.	10.00

Sr. No.	Description of work	Unit	Quantity
14	Supply and apply an epoxy modified cementitious, thixotropic, fine textured resurfacing mortar for levelling surface and sealing of pores,As a Moisture Barrier under epoxy,PU & PMMA Resin. Product: Sikagard®-720 EpoCem Shalifix SC2k, Expocrete EC.		
	(i) In 3mm thickness	Sq.m.	300.00
	(ii) In 2mm thickness	Sq.m.	1500.00
15	Supply & Apply of two part,low viscosity epoxy resin primer for priming concrete substrates, cement screeds and epoxy mortars(On normal to strong absorbent substrates) Product: Sikafloor®161 HC, Shaliprime 2E, nitoprime 25.	Sq.m.	1500.00
16	Providing & applying two component, UV resistant,colour stable polyurethane resin based protective coating and sealer coat for concrete and steel structures. Product:-Sikagard®PU UR, Shaliprotek 2Ac Pu Tc, Nitocote UR512	Sq.m.	1500.00
17	Washing with water jets the concrete/ brick surfaces of all structures to leach out the penetrated chemicals to the extent required as decided by Engineer-in-charge.	Sq.m.	1500.00
18	Assisting in executing various job un-susceptible to measurement and other work which are not including in any items stated above/ scope of works as per instructions of the Engineer-in-Charge. :		
	i) For this purpose, contractor has to deploy one Skilled Labour along-with all requisite tools & tackles for one day (For 8:00 hour), which will be treated as one unit of each operation.	Each Operation	10.00
	ii) For this purpose, contractor has to deploy one Un-skilled Labour along-with all requisite tools & tackles for one day (For 8:00 hour), which will be treated as one unit of each operation.	Each Operation	20.00

(Signatur of Contractor
with Rubber Stamp)

(Rajesh Kumar)
Chief Manager (Civil)