

Schedule of Quantities (NFL/NGL/C/611/2022)

Format- I

Name of Work: "Protective Treatment with Epoxy Coating / Putty/ Screeding to Masonry / Concrete surfaces of Pits, Sumps, Drains, Foundations etc. in Urea and BFW Plants inside Factory Area, NFL Nangal Unit during ATA-2023".						
Sr. No.	Description of Item	Unit	Qty.	Quoted Rate		Amount (In Rs.)
				in Figures	in Words	
1- A	Supply of Plain Epoxy of approved manufacturer mentioned in technical terms & conditions. All material shall be supplied at site of work NFL Naya Nangal including loading unloading, Octroi, Royalty, GST, Insurance and any other type of taxes/ overheads.					
	i) Epoxy Resin / Araldite.	Kg.	3560.00			
	ii) Epoxy Hardner	Kg.	2140.00			
1- B	Supply of following material compatible to material supplied under item no. 1-A above. All material shall be supplied at site of work NFL Naya Nangal including loading unloading, Octroi, Royalty, GST, Insurance and any other type of taxes/ overheads.					
	i) Flow Control Agent Acrocil DT075.	Litre	100.00			
	ii) Epoxy Thinner.	Litre	200.00			
	iii) Quartz Sand.	Cu.m.	3.00			
	iv) Acid Resistance Tiles 230 x 115 x 38 mm as per IS 4860.	Nos.	4000.00			
	Note: Contractor should note that upto 75% payment against items supplied under item no. 1 shall be released. Balance 25% payment shall be released after the execution of other items of SOQ.					
2	Fixing Acid Resistance tiles of 230X115X38 mm size with epoxy mortar of appropriate ration. Item includes application of epoxy tack coat, fixing tiles with epoxy mortar, filling joints, application of two coats of epoxy on entire surface. Job to be executed at all heights and depths with proper scaffolding and safety precautions in plant area as per instruction of Enginer-in-charge. Note: The job includes the cost of all plant and machinery, T&P, brushes, wire brushes, scrapper, chemical for cleaning surface, safety appliances etc. However, epoxy material, tiles required for the job shall be paid extra under item no. 1 of SOQ.	Sq.m.	100.00			

Sr. No.	Description of Item	Unit	Qty.	Quoted Rate		Amount (In Rs.)
				in Figures	in Words	
3	Washing with water jets the concrete/ brick surfaces of plant buildings to leach out the penetrated chemicals to the extent required as decided by Engineer-in-charge.	Sq.m.	1000.00			
4	Cleaning of all types of foreign materials, oil, grease and dust etc. adhering on the epoxy coated/ lined surfaces of RCC structures by using gunny wrappers including removal of loose and flaky patches of existing epoxy coating / lining to facilitate through inspection of existing protective coating / lining at all heights and depths, as per the instruction of Engineer-in-charge.	Sq.m.	6200.00			
5	Repairing the damaged surface of sides/ soffits of RCC beams, slabs and columns, to restore the same to its original section by dashing cement concrete mix 1:1½:3 (1-cement: 1½-coarse sand : 3-graded stone aggregate 6mm nominal size) in layers not exceeding 12mm in thickness including finishing complete. Nothing extra shall be paid for chipping the chemically affected concrete surface of these structures to the extent required as per site conditions and preparing the existing concrete surfaces by thorough wire brushing to remove the entire chemically affected concrete portion and erecting Jhulla/ scaffolding for safe working at all heights, as per instruction of Engineer-in-charge and disposal of rubbish at specified location in dumping yard inside factory area lead upto 1km.	Cu.m.	5.00			
6	Repairing the damaged masonry, concrete, RCC structure with Cement Mortar 1:1 / any other material specified to prepare the surface even and smooth complete, all as per the instructions of Engineer-in-charge. (Cement / any other material specified for this job will be supplied free of cost).	Sq.m.	50.00			
7	Carriage of materials of building rubbish etc. by Mechanical Transport including loading, unloading and stacking to dumping yard with Factory area premises, as specified by the Engineer-in-charge.	Cu.m.	30.00			
8	Application of two coats of epoxy formulation Araldite and Hardener as per specification mentioend in technical terms & conditions of Contract. Preparation of epoxy formulation at work site by mixing these in the appropriate ratio and applying this formulation on old damaged epoxy coated / lined horizontal and vertical surfaces of RCC pits/ tanks and other plant structures of different plants at all heights and depth adopting all safe working arrangements as per site requirements and directions of the Engineer-in-charge. Note: The job includes the cost of all plant and machinery, T&P, brushes, wire brushes, scrapper, chemical for cleaning surface, safety appliances etc. However, epoxy material required for the job shall be paid extra under item no. 1 of SOQ.	Sq.m.	5700.00			
9	Making double scaffolding system (cup lock type) on the bottom/ exterior side, made with 40 mm dia M.S. tube 1.5 m centre to centre, horizontal & vertical tubes joining with cup & lock system with M.S. tubes, M.S. tube challies, M.S. clamps and M.S. staircase system in the scaffolding for working platform etc. and maintaining it in a serviceable condition for the required duration as approved and removing it there after .The scaffolding system shall be stiffened with bracings, runners, connection with the building etc wherever required for inspection of work at required locations with essential safety features for the workmen etc. complete as per directions and approval of Engineer-in- charge .The working platform area of the scaffolding shall be measured for payment purpose .The payment will be made once irrespective of duration of scaffolding.	Sq.m.	100.00			

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10	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) Skilled Labour.	Each	10.00			
	ii) Un-skilled Labour.	Each	10.00			
11	Laying 5mm average thickness epoxy screeding consisting of araldite, hardener and quartz sand of appropriate ratio over a primed surface with primer of araldite and hardener including application of two top coats seal cost of epoxy formation based on araldite and hardener and flow control agent as per specification, all as per site requirement and instrucion of Engineer-in-charge. Note: The job includes the cost of all plant and machinery, T&P, brushes, wire brushes, scrapper, chemical for cleaning surface, safety appliances etc. However, epoxy material and quartz sand required for the job shall be paid extra under item no. 1 of SOQ.	Sq.m.	400.00			
				Total Quoted Amount:		

(Signatur of Contractor
with Rubber Stamp)

(Rajesh Kumar)
Sr. Manager (Civil)