

# **INDIAN BANK**

## **MUMBAI ZONAL OFFICE**

2nd Floor, eAB Building, 37, Mumbai Samachar Marg, Fort, Mumbai 400 023

**PROPOSED REPAIR OF TERRACE AND OVERHEAD TANK ALONG  
WITH WATERPROOFING TO BE UNDERTAKEN AT DÉCOR QUARTER,  
LOKHANDWALA, MUMBAI**

### **PRICE BID**

### **TENDER DOCUMENTS**

NAME OF THE CONTRACTOR :  
ADDRESS :  
DATE OF SUBMISSION : On or Before 13<sup>th</sup> July , 2023 upto 3.00 p.m.

#### **ARCHITECT/CONSULTANT**

#### **COSMOS CONSULTANT ENGINEERS**

**B-001, Arjun Niwas CHSL, Bhatt Lane, Behind Poisar Bus Depot, Kandivali (W), Mumbai –  
400 067. Mobile: 91- 98 19 46 5505 Office: 022 28685278**

S.No.	Particulars	QTY	Unit	Rate	Amount
1	<p><b>Waterproofing with APP modified bitumen memberane</b>  Providing and laying water proofing treatment to RCC terrace slab with NILOBIT/STP/Pedilite or equivalent 3 mm thick <b>APP modified bitumen memberane</b> with polymer reinforcement with overlapping of 75 mm along length and 100 mm along width including removing the tarfelt treatment,without causing damages to the existing structure, cleaning the terrace surface neatly with removing the dust and loose portion, including applying the bitumen based primer @ 0.20 Ltr./Sqm and laying the 3 mm thick NILOBIT/STP/Pedilite or equivalent 3 mm thick APP modified bitumen memberane coating with torching method and finishing surface with heat reflective bitumen based silver paint @ 0.10 Ltr./Sqm and covering the hole treatment with five years guarantee, on requisite papaer etc. complete.</p>	650	sqmt		
1B	Providing and Applying heat reflective bitumen based silver paint @ 0.10 Ltr./Sqm on above item	600	sqmt		
2	<p><b>Waterproofing (Brick-bat coba):</b>  Breaking Damaged and loose/decaed existing Terrace Waterproofing Treatment in patches upto slab level. Cleaning the surface as instructed by the consultant followed by application seven layer Brick-bat coba waterproofing system finished with IPS in patches to match the existing surface. The Terrace needs to be ponded for minimum 10 days after this Treatment. Grouting shall be paid extra under relevant item. This includes OHWT Top, STaircase Headroom Top and Terrace</p>	250	sqmt		
3	<p><b>PMM Treatment</b> :Chipping off existing loose, damaged Concrete from RCC members of all affected RCC Columns, Beams, Slabs , chajjas, pardi on Terrace Area. (if required in the opinion of the Consultant), carefully with chisel and hammer Providing and applying 'Rusticide SS' Rust passivator or equivalent as specified in the Brand Names to existing r/f. bars Including wire brushing of reinforcement , cleaning washing of concrete etc complete as directed.Providing and applying two coats of rust preventor slurry made out of "Polyalk Fixoprime" or equivalent as specified in the Brand Names and cement in proportion 1:1.5</p>	180	sqmt		

	<p>to existing r/f.bars as directed complete. Providing and applying bonding coat of slurry made out of "Polyalk EP" or equivalent as specified in the Brand Names and cement in proportion 1:1 to concrete and r/f substrates complete as directed Providing and applying "Polyalk EP" or equivalent as specified in the Brand Names. Polymer modified cement mortar in Required proportions(1:5:15) to RCC members. Including Hand packing, curing and making the surface rough for plastering. (Rates to include treatment cost for average thickness upto 25mm)</p>				
4	<p><b>Micro-Concrete Treatment:</b> Providing and laying Super fluid Microconcrete in beam bottoms, columns, slabs etc. including mixing with 5mm to 10mm size aggregates, waterproof ply wood/ steel plate shuttering, pouring, temping, Consolidating, curing etc complete as per Manufacturer's specification and Consultants Instructions. The item shall be paid on actual consumption of Micro concrete. Rate of this item shall include chipping of concrete, surface preparation, rust removal and prevention treatment as per specs and in accordance with consultants suggestions and directions  Note : The item shall be paid on actual consumption of Micro Concrete. The rate includes steel rebars to be used as per consultants instruction.</p>	1200	Kg		
5	<p><b>External Waterproof Plaster:</b> Carefully Chiseling/ Chipping out all existing loose decayed Plaster at Terrace Areas ( in patch work) using Plaster Breaking machine and or Well sharpened Chisel &amp; Hammers at proper angles carting away the Debris outside of Society's Premises etc complete as directed by the Consultants, Providing and applying 20/25 mm thk sand faced plaster to concrete members- brick work etc. of External wall facades using approved screened and Pre washed River sand including base coat of 13-15mm thick in C.M. 1:4 and curing the same for not less than three days and keeping the surface of base coat rough to receive the sand face treatment 6 to 8 mm thick of C. M 1:3 finishing the surface by taking out grains and curing for 7- 10 days, providing and mixing approved waterproofing compound in required quantities in both the coats complete. Note : (1) Rates are inclusive of making Pattas, Drip moulds, Corners, etc as specified and directed Sand shall be screened</p>	160	sqmt		

	and washed on site (if necessary) for Silt Content less than 4 % and in confirmation to IS 383 Zone II.				
6	<b>Root Treatment.</b>	100	Nos.		
7	Providing and Applying <b>Polysulphied Sealent of avg thickness 15mm to the junction</b> as instructed by consultant.	50	Rmt		
8	<b>Drilling holes of required size upto 16 mm Diameter</b> and up to 50mm depth in concrete and cleaning the same as directed.	550	NO		
9	<b>Epoxy Grouting</b> :Providing and <b>injecting</b> High molecular weight super low viscous(3 to 5 cps) 0.56 Kg/Cm <sup>2</sup> <b>epoxy</b> thermoset Resin Monopol (Krishna conchem or equivalent ) for Slab /Beam/Column in appropriate proportion as per manufacturer's specifications into cracks/ honeycomb area of concrete including drilling of holes minimum 50 mm in concrete, fixing nipples, injecting grout by suitable gun/pump at pressure of 1.0 to 2.0 Kg./Cm <sup>2</sup> and subsequent cutting/ removal of the nipple and sealing of the hole and groove after completion of grouting with cement/epoxy mortar as directed by the Engineer in -charge etc. complete. <b>Spec : (As directed by Engineer in charge)</b>	200	Kg		
10	<b>Cementitious grouting</b> :Providing and fixing 12 mm diameter aluminum /PVC injection nipples and securing the same as directed & Providing and injecting cementitious grout using CEBEX-112 additive of 'Fosroc' at the rate of 225 grams per bag of cement and using suitable mechanical gun/pump including mixing etc complete.	200	NO		
11	<b>Chemical Shear Connectors</b> :Providing & fixing hilti dipped shear keys of 10mm dia and 4" to 6" length in columns before Micro concreting as per Consultants Instructions and directions.	350	NO		

12	<p>Providing and applying external raincoat painting with crack filling Pidilite company product <b>Dr.Fixit Rain coat</b> acrylic polymer based chemical compound coating to the external surface of wall to prevent water seepage in the masonry walls during monsoon added with required shades Steiner to give required shade to the surface in two coats. Including providing three coat of primer of Dr. Fixit Prime Seal polymer base primer including preparing surface scrapping the existing loose old paint , removing loose particles of sand on the surface opening and cleaning the cracks developed in the external plaster,removing loose particles by chiseling,filling cracks by chemicals compounds of Dr. Fixit Cracks -x with proper penetration etc. Coating of raincoat with the help of brush and as per instructions and specifications given by Pedilite and with instruction from Engineer in- charge . Work shall be executed by certified application only and covering guarantee of 3 years on court stamp paper of Rs. 500/- and necessary testing etc. complete. <b>Spec : (As directed by Engineer in charge)</b></p>	750	sqmt		
13	<p>Providing and applying of <b>swellable type water stop Penebar</b> for CONSTRUCTION JOINTS in OHWT/ basement SW45 Type A (Expansive Nature) of M/s Penetron International Ltd, USA at all the construction joints /cold joints of the raft slab &amp; Pardi, with the retaining walls etc. after cleaning the surface by air blower /mechanical means before application of <b>Penebar SW Primer</b>. The material must capable of withstanding Hydrostatic pressure of 6 bar continuous exposure for 7 days. Must show and expansion of more than 200% in potable water. <b>Spec : (As directed by Engineer in charge)</b></p>	20	Rmt		

14	<p><b>Waterproofing of OHWT Tank</b>  Providing waterproofing of water tanks with Dr. Fixit Pidifin2k and Dr. Fixit Safeguard and fixing of <b>Dr. Fixit waterbar SW2020</b> (or equivalent BASF / FOSROC / STP) on wall/ construction joints like slab &amp; wall, lift joints etc. Mechanically clean the RCC slab and wall with wire brush/ coir brush to free from all loose materials like dust,dirt etc. Seal all honeycombs, pin holes, joints with polymer modified mortar attain SSD condition . Apply first coat of <b>Dr. Fixit Pinfin 2k</b>(or equivalent BASF / FOSROC / STP) rapid chloride permeability reduction in chloride ion penetration , is 90% as per ASTM C 1202. on properly rendered ,cleaned RCC slab &amp; wall with brush and allow it to dry for 6-8 hrs. After drying of first coat apply second coat and sprinkled coarse sand on vertical surface . Allow 24 hrs for full cure. Apply waterproof screed concrete 30-40 mm on floor and 12-15 mm waterproof plaster on vertical surface before admixed with <b>Dr. Fixit Pidiproof LW+</b>(or equivalent BASF / FOSROC / STP ) IS : 2645 : as per standard @ 200 ml per bag of cement . Cure the surface with water.Clean the surface with wire brush to remove all loose dust, dirt etc. Saturated the surface with water to reach SSD condition . Apply two coats of <b>Dr. Fixit Safeguard</b> (or equivalent BASF / FOSROC / STP) (pot life at 30C, hrs is 60-75, surface drying time at 30C as per ASTM C 870:90-NIL, Food Grade certification PASSES-Ref-USFDA-175-300, Antifungle activity as per EN 15458-06) by brush on SSD floor &amp; wall by brush on an interval of 6-8 hrs in between 2 coats . Allow the surface for full cure of 24 hours before use. Work shall be executed by certified applicator only and work shall be guaranteed for 5 years and guarantee shall be provided on Rs. 500/- stamp paper. <b><u>O.H.W.T. inside surface.</u></b></p>	120	sqmt		
15	<p><b>OHWT BAsE Waterproofing Treatment:</b>Carefully <b>Removing old waterproofing treatment &amp; providing</b> and laying 50mm thick average <b>waterproofing</b> metal pieces coba including 12mm thick 1:3 bedding mortar, filling interstices with C.M. 1:5 and finishing the top with 20mm thick 1; 3 C.M. smooth toweling as per instructions including watta curing, mixing approved water proofing compound in required proportion etc. complete <b>for Over Head water tank bottom slabs.</b></p>	50	sqmt		
16	<p>OHWT side wall Waterproofing Treatment:  Carefully <b>Removing old waterproofing treatment &amp; Plaster of inside walls and Providing waterproof plaster to over head water tank inside (side walls)</b> 20mm thick in C.M. 1;3 with waterproofing</p>	75	sqmt		

	compound required proportion completed including applying two coats of food grade polymer coating in 1:1 ratio .				
17	<b>Parapet Top</b> Providing and filling Kotah Joints between two stones, the joint between kotah and parapet inside and outside. Further the Kotah wherever required needs to removed and re-fixed at places and 10% Kotah to be replaced wherever required as per instruction of bank and consultant.	450	Rmt		
18	<b>Temporary Water Tank Interconnection for Waterproofing and restoring the same after waterproofing</b>	1	LS		
	<b>TOTAL</b>				-