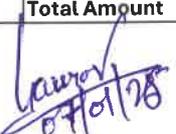
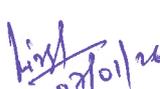


**The World Spa Apartment Owners Association**

**BOQ-B2 TERRACE WATERPROOFING WORK (BRICK BAT KOB)**

S.NO	Description of item	Unit	QTY	Rate	Amount
	<b>General notes :-</b>				
	(i) The Contractor Shall be submit the samples of all material & TDS. to the Project Manager for approval and finalization of samples.				
	ii) The rates should be inclusive of all lead , lifts, height, scaffolding etc. complete.				
	iii) Rates include the cost of protection needed for finishing the work during the contractual period /handling over the project.				
	iv)The contractor should quote the rate after visting the site & referring the , tender documents etc. The rate should include all necessary for complete the job arrangements as required. Nothing extra will be paid.				
<b>1</b>	<b>Terrace Waterproofing</b>				
<b>1.1</b>	<b>Cleaning of Surface and Removing Loose Material</b>				
	Cleaning of existing surface thoroughly by removing all loose particles, dust, dirt, oil, grease, and any other foreign material using wire brush, air blower, or water jet as required to ensure a clean and sound surface for subsequent treatment or application.	Sq m	284		
<b>1.2</b>	<b>Brick Bat Koba</b>				
	Providing and laying brick bat koba (coba) waterproofing treatment on terrace area, by cleaning the existing surface thoroughly, applying cement slurry mixed with approved integral waterproofing compound(Dr. Fixit pidiproof LW+/Fosroc conplast WL/Sika Plastocrete Plus) @ 200ml per 50kg cement bags, laying broken brick bats (size 25–50 mm) in cement mortar (1:4) mixed with average thickness of 150mm, maintaining proper slope(1:50)/ as per site condition towards rainwater outlets, compacting the surface, curing for a minimum period of 7 days, and finishing the top surface smooth.including cost of all materials, labour, tools, curing and all incidental works complete as per specifications and direction of Engineer-in-Charge, <b>Waterproofing compound: Dr. Fixit / Fosroc / CICO / Sika</b>	Cu m	45		
<b>2</b>	<b>Parapet Plaster Work</b>				
<b>2.1</b>	<b>Chipping of loose /damaged Plaster</b>				
	Dismantling/Chipping off loose plaster of any thickness in damaged areas of parapet walls, including removal of all loose material by chiseling, cleaning the surface with wire brush, and disposal of debris from site as directed by the Engineer-in-Charge. The work shall be carried out carefully to avoid damage to the structure.	Sq m	90		
<b>2.2</b>	<b>Chemical Treatments</b>				
<b>2.2.1</b>	<b>Reinforcement Cleaning &amp; rust removal</b>				
	Cleaning Reinforcement bars loosely with hand wire brush and apply alkaline chemical rust remover with brush and removing loose particals after 6 hrs of applications and washing thoroughly with water all complete. Approved Product: Rustoff 100-Sika/ Reebaklens RR (Forsroc) / Rustkleen (BASF) / Rust Remover -Dr. Fixit / equivalent)	Sq m	28		
<b>2.3</b>	<b>Zinc rich Primer</b>				
	Providing and applying Zinc rich Primer on the Chemically treated old rebars to the concrete as per manufacturer's Specification )/ Dr. Fixit /Sika /BASF Product: Nitozinc Primer of Forsroc / Fiazinc® R -Sika / Epoxy Zinc Primer of Dr. Fixit /equivalent product of BASF/ Sri krishna conchem	Sq m	28		
<b>2.4</b>	<b>Polymer Modified Cementitious Bonding Coat</b>				
	Providing, mixing and applying polymer modified cementitious bonding coat @2.2kg per Sqm of surface area mixed with SBR Latex adhesive with specified proportion as per manufactures specificationof on chipped portion of RCC. Rate includes cost of cement & all other materials also. Note :Surface Area of concrete where the Bond Coat has been applied shall be measured for payment, Products :BA30 of Xchem Polymer/ Nitobond AR of Forsroc / masterEmaco 141 of BASF / SUPER LATEX of Dr. Fixit or equivalent) (Quoted Rates are for all heights, depths, levels, leads and lifts)	Sqm	90		
<b>2.5</b>	<b>Polymer Modified Cement Mortar / Plaster -12mm-15mm</b>				

	Providing ,mixing & applying polymer modified cement mortar's (immediately after the application of bond coat over 1st layer) upto 15mm Thick vertical/horizontal/inclined /circular faces in proportion 1 : 4 (1 Cement : 4Coarse Sand ) admix with any of undermentioned admixture @3% weight of cement. Note-BA30 of Xchem Polymer/ Nitobond AR of Forsroc / masterEmaco 141 of BASF / SUPER LATEX of Dr. Fixit or equivalent)	Sq m	90		
<b>3</b>	<b>Terrace Tile Work</b>				
<b>3.1</b>	<b>Floor Tile</b>				
	Providing and laying vitrified floor tiles of approved make in all colours and shades, size 600 × 1200 mm (4' × 2'), in flooring on terrace, laid on cement mortar 1:4 with waterproofing as per manufacturer specification applied with notched trowel, including grouting the joints with epoxy grout (Epoxy Tile Grout (Two-Component)MYK- Laticrete SpectraLOCK /Dr. Fixit /Fosroc). matching shade(including cutting, polishing, cleaning, and finishing complete as per direction of Engineer-in-Charge.	Sqm	45		
<b>3.2</b>	<b>Skirting</b>				
	Providing & fixing tile skirting 150 mm high as per approved shade, colour and pattern, including cutting, shaping, fixing with cement mortar 1:4 with waterproofing as per manufacturer specification, and pointing with matching grout(Epoxy Tile Grout (Two-Component)MYK- Laticrete SpectraLOCK /Dr. Fixit /Fosroc) complete.	Rmt	47		
<b>4</b>	<b>Water Tank Waterproofing</b>				
<b>4.1</b>	<b>Removing of Existing Tiles</b>				
	Carefully dismantling and removing existing floor / wall tiles of any type including ceramic, vitrified, mosaic or stone, from floors, walls or water tank surfaces, including hacking of tile bedding mortar/adhesive, cleaning the base surface to receive new treatment, stacking serviceable material separately if required, and disposal of unserviceable debris outside the premises to approved dumping area, including cost of all labour, tools, scaffolding and incidental works complete as per direction of Engineer-in-Charge.	Sq m	111		
<b>4.2</b>	<b>Waterproofing Work</b>				
	Providing and applying two-component elastomeric waterproofing coating using Dr. Fixit Tank Pro on the primed concrete surface, after surface preparation complete in all respects. The coating shall be applied in two coats by roller only at a total consumption of 1.40 kg/sq.m, comprising 0.50 kg/sq.m for the first coat and the balance in the second coat. The interval between the two coats shall not exceed 12 hours. The applied coating shall be allowed to cure for 3–5 days to achieve full curing, after which a 24-hour water ponding test shall be conducted. The material shall conform to the following minimum properties: Specific Gravity: 1.20 Solids Content: 100% Elongation: ≥100% Tensile Strength: >10 MPa (as per ASTM D412) Hardness: >40 (as per ASTM D2240) Hydrostatic Pressure Resistance: 5 bar (as per EN 12390) Adhesion to Concrete: >1.5 MPa (as per ASTM D7234) Water Absorption: <0.5% (as per ASTM D570)	Sq m	111		
<b>4.3</b>	<b>Injecting PU (Polyurethane) Grouting</b>				
	Providing and injecting Polyurethane (PU) expanding resin grouting for arresting leakage/seepage in RCC structures, including drilling injection holes with 10–12 mm drill bit, fixing mechanical packers (10–14 mm), injecting approved PU grout resin (Fosroc Nitofill PU130 / Sika Injection-201/202 / Technokem PU Grout / STP PU Grout) using hand/electric injection pump of 50–150 bar pressure, removal of packers after curing, sealing of injection points with suitable epoxy/mortar, and complete cleaning of the area as per manufacturer specification.	No	R/O		
<b>4.4</b>	<b>New Tile Work in tank</b>				

	<p>Providing and fixing acid-resistant / glazed ceramic tiles on internal surfaces of RCC water tank including floor, walls and ceiling and plaster, using polymer modified tile adhesive suitable for permanent water immersion, with joints filled using waterproof, chemical-resistant epoxy grout, including surface preparation, cutting of tiles, proper alignment, curing, cleaning and all materials, labour, tools, scaffolding and incidental works complete as per drawings, specifications and direction of Engineer-in-Charge.</p> <p><b>Tile size: As approved (typically 100×100 mm or 150×150 mm)</b>  <b>Adhesive: MYK / Fosroc / Roff / Sika or approved equivalent.</b>  <b>Base Rate:- Rs 30 sqft</b></p>	Sqm	111		
<b>5</b>	<b>Khurra</b>				
	<p>Providing and fixing stainless steel khurra (terrace rainwater outlet / floor drain) of approved make, heavy-duty type, made of SS-304 grade, suitable for terrace application, complete with removable grating and outlet connection suitable for 100 mm dia rainwater down-take pipe, including cutting and chasing of terrace slab / screed, embedding in cement mortar, proper alignment and level, ensuring required slope for effective drainage, making joints fully watertight, testing, and making good the surrounding surface, including cost of all materials, labour, tools and incidental works complete as per direction of Engineer-in-Charge.</p>	No	4		
<b>6</b>	<b>Removing &amp; fixing of stone top parapet</b>				
	<p>Dismantling existing top parapet coping / stone carefully without damaging adjacent masonry or plaster, cleaning and removing old mortar from stone and parapet surface, preparing the base, and re-fixing the same stone coping in position with cement mortar (1:3) including necessary hacking, levelling, proper slope for drainage, alignment, curing, and making good all disturbed portions complete as per directions of Engineer-in-Charge</p>	Sq m	49		
<b>7</b>	<b>Stone Grouting Work</b>				
	<p>Removing existing damaged / loose stone grout from joints to the required depth, cleaning the joints thoroughly, and refilling with epoxy-based tile grout – MYK Laticrete SPECTRALOCK® PRO Premium Grout (or Fosroc Conbextra EP10 TG / Roff Epoxy Grout / Ardex WA or approved equivalent) of approved colour.</p>	Sqm	50		
<b>8</b>	<b>Disposal of Malba / Construction Debris from Site</b>				
	<p>Disposal of unserviceable materials, construction debris, malba, broken bricks, plaster waste, concrete pieces, etc., from site premises to the approved dumping ground as directed by the Engineer-in-Charge, including loading, unloading, transportation, and all leads and lifts, labour, tools, and equipment complete in all respects.</p>	Per Trolley	6		
	<b>Total Amount</b>				-
	<p>  Gaurav Dagar  <b>Sr. Civil Executive</b></p>	<p>  Udairaj Singh  <b>Technical Manager</b></p>	<p>  Harpreet Singh  <b>Estate Head</b></p>		
	<p>  JB Ruhil  <b>CIVIL Head AIMSPL</b></p>	<p>  Santosh Aggarwal  <b>Infra Committee</b></p>	<p>  Myrelle Machado  <b>VP TWSAOA - Infra BOM</b></p>		