Name of the work:-Water Proofing & Special repair works for ELC at NCBS NIT NO: NCBS/Maint(Civil)/604/NIT-151/2022 Dated: 13/06/2022.

Schedule of Quantity

Sl No.	Description of Work	Unit	Qty	Rate	Amount
1	Suppling, applying and testing the existing roof	Sqm	2000		
	surface of any description with water proofing				
	treatment works as detailed below as directed by		}		
	Engineer in Charge:-a)Taking out/removing the				
	existing treatment includingtarfelt, flate clay tiles,				
	loose plastering etc., from flat, sloped, curved				
	surfaces, valley with brushes and solvent/ acids,				
	taking out all dirt, dust, fungus, organic matter				
	etc., and disposal of the waste materials out of				
	the premeses in an unobjectionable way/as and				
	where directed . b) Making necessary repairs/				
	patch plastering in CM 1:3 to existing surfaces				
	including expansion joints of surkhi/ plaster/				
	concrete with necessary curing etc., and where				
	cracks are prominent, open them to make a 'V'		1		
	groove and preparing the surface to receive				
	further treatment. The roof area which has no				
	proper slope for easy draining out the water,				
	should be given proper slope using PCC 1:3:6 or				
	cement mortar 1:3,				
	Rate in words:				
	c) Appling wetting agent consisting of acrylic		<u> </u>	I	
İ	monomer, co-polymer liquid and crystalisation				į
	liquid as base on the prepared surface and				İ
	Vgrooves and cracks etc.,				
	d) Sealing up of all cracks, crevices, expansion				
	joints and grooves with liquid polysulphide seal-				
	ants manufacured by Hinduja/Fosroc/Pidilite or				
	equivalent and preparation of flexible cementa-]	
	tious membrane (FCM) coating by appling a coat				
	of proper proportion manufacred by Construc-				
	tion care chemicals (CCC).				
	e) Providing and applying first coat of				
	ISÖPROOF Acrylic co-polymer water proofer				
	manufacured by M/s. Construction care				
	chemicals with 5% di- lution with water over a				
	l l				
	layer of non-woven Geo- fabric 40GSM laid. The				
	fabric should be saturated with acrylic co-				
	polymer, thereby creating a water proof barrier				
	and shall be allowed to dry for a period of 24				
	hours before testing the membrane treatment by			İ	
	ponding with water for 7 days min-				
	imum.				
L					

SI No.	Description of Work	Unit	Qty	Rate	Amount
	f) The second and final coat of ISOPROOF				
	water proofer shall be applied at right angles over				
	the second layer non-over geo-fabric 40GSM				
	laid. The minimum drying time allowed is six				
	hours at 30 deg C before testing the membrane				
	treatment by ponding with water for 7 days				
	minimum.g) The entire treatment of water				
	proofing shall be carried out by experienced and				
	expert appli- cators as per manufatures				
	specifications and recommandations confirming				
	to ASTM:D 412, The trated filament shall resist				
	attack of acids, alklies, sunlight, moisture, fungus,				
	bacterial growth, termites etc., The treatment				
	should have good adhesion to concrete/ plaster				
	surfaces to withstand temperature ranging from				
	10 to 90 deg C.h) The agency should proove				
	water tightness after completion of work by				
	conducting water ponding test on the treated roof				
	às per standard procedure.				
	Note: 1) The contractor should furnish a Guaran-		 		
	tee Bond in the prescribed format for satisfacto-				
	ry water proofing performance for Ten years pe-				
	riod before the final bill payment otherwise which				
	the security deposit amount of 10% of the gross				
	value of the work done shall be retained for such				
	period of 10 years instead of normal six months				
	period. 2) The quoted rate be operational upto the				
	height of 10mts from ground level				
					
	Roof area of flat, sloped, curved, valley surfaces				
2	Providing and applying water retarding	śqm	1160		
	treatment/silicon coating to the external surfaces			-	
	of size stone masonary wall&cladding to prevent				
	seepage of water through walls including				
	1 1				
ļ	scaffolding, washing the surface, curing, ect, as				
<u> </u>	per specifications and at all lifts.		<u> </u>		<u> </u>
	Rate in words: a)Preparation of Surface and removal of fungus		1	T	
	and loose particles, cleaning with brushes and				
	thorough acid wash, wherever necessary.				
	b) Cutting V grooves at cracks wherever				
	necessary.				
	c) Application of base coat of flexicoat with				
	Acrylic and water on pointing area.				
	d) Application of polysulphide sealant for V				
	grooved area.		ļ		
	e) Applications of flexicoat above base coat.		<u>}</u>	<u> </u>	<u> </u>

SI No.	Description of Work	Unit	Qty	Rate	Amount
	f)Applying a coat of flexicoat cement mixture on				
	pointing area and disposal of the waste materials				
	out of the premeses in an unobjectionable way/as				
Ì	and where directed	0	10/0		
د	Providing and Applying Venar tex finish on RCC	Sqm.	1060		
	Column and beam surfaces of Approved				
	color,texture and grains size including necessary				
	scaffolding, lacqor coat, materials, labour, removal				
	of existing damaged venartex coat etc., and			ļ	
	disposal of the waste materials out of the				
	premeses in an unobjectionable way/as and where				
	directed complete and as directed by EIC				
	Rate in words:				
4	Care ful Removal and refixing the existing	Sqm	500		
	fixed/openable window glass panes of 5mm thick				
	fixed in aluminium frame works after replacing				
	suitable neoprene rubber gesket, removal				
	&redoing of existing weather proof sealent				
	around aluminium frame including necessary				
	charges for materials, labour, etc up to 15mit				
	height and as directed by engineer-in-charge as				
	per specification and disposal of the waste				
	materials out of the premeses in an		-		
	unobjectionable way/as and where directed				
! 	Rate in words:				
5	REPAIR of SPALLING CONCRETE IN	Sqm	100		
	CONCRETE SLABS, COLUMNS AND				
	BEAMS as detailed be- low: All dust, paints,		ļ		
	nails and cement plaster shall be removed				
	thoroughly using tools. Have out all week concrete and clean the steel hars with wire brush				
	The state of the s				
	Adjoining concrete members should be supported suitably by using steel props. Corroded steel bars				
	shall be replaced with new bars and with				
	sufficient lapping. Apply anti corrosive epoxy				İ
	resin concresive ZRI two coats on steel bars.				
	Clean the surface again and apply concresive				
	1414 epoxy bonding agent for old and new				
	concrete. Mix Emaco S48CT precision repair				
	mortar using mechanical paddle with specified				
	quantity of water until desired consistence		:		
	achieved and apply the mix by hand trowel to				
	desired thickness to level with existing surface.				
	Apply single coat mastercure 181 curing com-				
	pound on the surface and leave it for cure.				
	NOTE: Rate quoted shall include cost of tools&				
	plants, transportation and taxes etc.				
	Rate in words:				

Sl No.	Description of Work	Unit	Qty	Rate	Amount
6	Wall painting with premium acrylic emulsion	Sqm	100		
	paint, having VOC (Volatile Organic Compound)				
	content less than 50 grams/ litre of approved				
	brand and manufacture, including applying				
	additional coats wherever required to achieve				
	even shade and colou				
	Rate in words:				
7	Providing, fabricating and fixing of	Sam	170		
,	polycarbonate sheet roofings/weather sheds of	*			
	any shape over MS tubular frame work as per				
	detailed drawing and specifications as		Į.		•
	detailed below a)The weather shed shall be				
	fabricated out of multilayer wall of thickness		}		į
	mentioned below of "M/s.Sabic GE				
	plastic/Markralon" or "Lexan" make				
	manufactured by M/s.GE Plastic India Ltd. or				
	equivalent make and of approved shade and				İ
	colours. Sheet fixing shall be done with alumini-				
	um profile as per detailed section drawings.				
	The clamping profiles shall be consisting of base				
	section and a compatible top section. All alumin-				
	ium sections shall be powder coated as per de-				
	tailed schedule of finishes. All the edges of				
	polycarbonate sheets shall be closed with suitable				
	1				
	side tape and suitable aluminium sections.				_i
	Rate in words:				1
	The clamping shall have provision for EPDM				
	rubber gasketing for water scaling however				
	silicon seal- ant shall be used for sealing				
	intersectional joints if any and other vulnerable				
	joints wherever re- quired etc. for all heights and				
	at all levels com- plete all as directed by Engineer				
	in-Charge. Rate to include supply and fixing				
	necessary self tap- ping screws, weather cap,				
	filling joints with sili- con sealant, aluminium				
	1		[
	section for joining sheets, EPDM gasket				
	scaffolding etc.) With 10mm thick curved shape				
	Multi-wall poly carbonate sheet				<u>.</u>
	Note: (i)payment shall be made on net polycar-				
	bonate sheet area (finished area). The overlap-				
	ping area of sheets etc. will not be paid.				
	(ii)The cost of MS frame will be paid separately				
	elsewhere in the item (iii) Work has to be carried				
	out upto height of 12.00 mtr. above Ground level.				
	Cost includes charges for scaffolding required.				
	1				
	IV)In all shades, colours and all shapes				
	includingcurved/architectural design.				
	1				

Sl No.	Description of Work	Unit	Qty	Rate	Amount
8	Pointing on stone work with cement mortar 1:3	sqm	200		
	(cement : Msand) including raking out Joints,				***************************************
	scaffolding, curing, finishing neat, etc; complete				
	all as per specifications for heights up to 10m				
	above GL with Flush pointing				
	Rate in words:				
9	Raking out joints in lime or cement mortar and	sqin	200		T -
	preparing the surface for repointing or replas-	1			
	tering including disposal of rubbish to the				
	dumping ground within 50m lead.				
	Rate in words:				
10.	Earth work in surface excavation not	Sqm	135.00		
	exceeding 30 cm in depth but exceeding1.5 m				
	in width as well as 10 sqm on plan including				
	disposal of excavated earth up to 50 m and lift up				
	to 1.5 m, as per directions of Engineer in				
	Incharge: All kinds of soil.				
	Rate in words:		<u> </u>		<u>!</u>
11	Shifting of earth, coarse aggregate etc., from	Cum	30.00		
	terrace of CIFF by engaging labour and &		l		
	stacking neatly in place showned by NCBS lead				
	up to 500m and as directed by EIC				}
	Rate in words:				
12	Providing and applying fibre reinforced	Sqm	125.00		ľ
	elastomeric liquid water proofing membrane				
	with resilient acrylic polymers having Sun				
	Reflectivity Index (SRI) of 105 on top of				
	concrete roof in three coats @10.76 litre/ 10				
	sqm. One coat of self-priming of elastomeric				
	waterproofing liquid (dilution with water in the				
	ratio of 3:1) and twocoats of undiluted				
1	elastomeric waterproofing liquid (dry film				
]	thickness of complete application/system not				
	less than 500 microns). Theoperation shall be				
	carried out after scrapping and properly cleaning				
	the surface to remove loose particles with wire				
	brushes, complete in all respect as per the				
	direction of Engineer-in-Charge.		<u> </u>		
	Rate in words:		T		
13	Clearing/ Removal of grass and removal of the	Sqm	125,00		
	rubbish up to a distance of 50 m outside the periphery of the area cleared.				
	Rate in words:		<u> </u>		<u> </u>
14	Supplying and Covering top of cell/membrane	Sqm	125.00	· · · ·	
	with Geotextile, 120 gsm non woven, 100%	•			
	polyester of thickness 1 to 1.25 mm bonded to the				
	membrane with intermittent touch by heating the				
1	membrane by Butane Torch as per manufactures				
	recommendation to site of work as per detailed				
	specification all complete as per directions of				
	Engineer in charge.				
L	Engineer in charge.	<u> </u>	<u> </u>		

St No.	Description of Work	Unit	Qty	Rate	Amount
71 4 10.	Rate in words:				
15	Providing & laying Selection no. I doob	Sam	125.00		
	grass turf with earth 50mm to 60mm thickness				}
	of existing ground prepared with proper level and				
	ramming with required tools wooden and than]		
	rolling the surface with light roller make the				
	surface smoothen and light watering the same		İ		
	maintenance for 30 days or more till the grass				
	establish properly, as per direction of officer in				
	charge		<u> </u>		
	Rate in words:		26.00		
1.6	Disposal of moorum/building rubbish/ malba/	cum	26.00		
	similar unserviceable, dismantled or waste				
	material by mechanical transport including		1		ļ
	loading, transporting, unloading to approved				
	municipal dumping ground for lead upto 10 km		1		
	for all lifts, complete as per directions of				
	Engineer-in-charge,	·	<u>i</u> l-		
	Rate in words:	cuni	15,00		
17	Spreading of sludge, dump manure and/or good	o,ann			
	earth in required thickness as per direction of		1		
	officer-in-charge (cost of sludge, dump manure				1
	and/ or good earth to be paid separately).				
	Rate in words:				
18	Mixing earth and sludge or manure in the	cum	15.00	- -	
10	required proportion specified or directed by the		1		
	Officer-in-charge.				
	Rate in words:				
19	Supplying and stacking at site dump manure	cum	15.00		Ì
	from approved source, including carriage upto 5				
	km lead complete (manure measured in stacks		•		
			1		
	will be reduced by 8% for payment) Screened		ļ]	
	through sieve of LS, designation 16 mm	<u></u>			
	Rate in words:	· ·	100.00	1	1
20	Supplying and fixing Drainage cell for terrace	sqm	120.00	ļ	
	garden area, which are high strength modular	ļ			
	drainage cell, manufactures from high strength				
	polypropylene, having height of 20mm and		}		
	30mm and are easy to install with inter locking				İ
	them horizontally and vertically. Complte all as				
	per manufactures specification and as directed by	,	Į	Ì	
				ļ	
	EIC etc complete.		l	-!	
	Rate in words: Providing Polysulphide Sealant in Expansion	Rint	30.00		
21			=,,, =,, =		
	Joints /RCC Slabs/ Beams etc. The joints shall be	.]			
	of size 25mm wide & 10mm deep using sealan	T.			
	of approved make. The work shall be executed	li.			
	strictly as per manufacturers' specifications etc.	,			
	complete all as per directions of engineer-in	-			ļ
	charge at all Heights/ Levels.				
	Rate in words:				

SI No.	Description of Work	Unit	Qty	Rate	Amount
22	Filling available excavated earth (excluding rock)	cum	30.00		
	in Terrace garden in layers not exceeding 20cm				
	in depth, lead up to 50 m and tiff up to 1,5 m.				
	Rate in words:				
23	Removing the existing stone slab flooring and Re laying the same, the joints filled with cement concrete 1:3:6 and the surface should be neatly levelled, proper compactions for stone and earth for settling etc complete all as per directions of Engineer - In - Charge	Sqm	15.00		
	Rate in words:				Г
			•	Total Amount	

Note: The contractor shall quote his rates in this schedule of quantity. Submission of tender in any other format is liable for rejection.

Total Amount in words:

Signature of contractor.

