

<b>BOQ for Civil ,Plumbing and Sanitary Maintenance work</b>					
Sr. No.	Particulars of item	Unit	Qty	Rate	Amount
1	KSRB 2-2.1: Earthwork excavation by manual means for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50. including breaking of clods complete as per specifications. No. KBS 2.1(a) / 2.3.5	Cum	150		
2	KSRB 2.3 Filling available excavated earth (Excluding rock) in sided of foundation up to plinth level layers not exceeding 20cms. In depth, compacting each deposited layer by ramming after watering with lead up to 50 m and lift up to 1.5 meter. including cost of all labour complete as per specifications. Specification No. KBS 2.9	Cum	100		
3	Earth work excavation for foundation of structure up to 3 meter by mechanical means as per drawing and technical specification, including setting out, providing shoring, strutting and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom, filling back the excavated earth to the extent required and utilizing /transporting the remaining earth up to 1.0 km lead, including cost of labour, materials and HOM etc. machineries etc. complete.	Cum	505		
4	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @220 kgs, with 40mm and down size graded granite metal course aggregates @ 0.892 cum and fine aggregate @0.465 cum machine mixed, concrete laid in layers not exceeding 15cms. thick well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specification. Specification No. KBS 4.1,4.2	Cum	5		
5	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregates @0.53cum, machine mixed, concrete laid in layers not exceeding 15cms. thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum	7		
6	KSRB 4.6.4: Providing and removing centering, shuttering , strutting, propping etc. specification No KBS4.6.2	Sqm	100		
7	Providing and constructing granite/trap/basalt size stone masonry in foundation with cement mortar 1:6 ,edges of stones chisel dressed in courses not less than 15 cm s high .bond stone at 2m apart in each course including cost of materials, labour ,curing complete as per specification	Cum	8		
8	KSRB 6-2.4: Providing and constructing burnt brick masonry with approved quality non - modular bricks of standard size of class designation 5.0 Newton per Sqmm with cement mortar 1:4 for basement and superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2	Cum	40		

9	KSRB 6-7.3: Construction of partition wall 11.2 cms thick with non-modular ground moulded burnt brick of class designated 3.5 Newton per Sqmm with cement mortar 1:4 including cost of materials, labour charges, scaffolding, curing complete as per specification. Specification No.KBS 6.2	Sqm	25		
10	KSRRB M200-12.2. Dismantling of existing structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications. -do- (i)Lime /cement concrete. I. By manual means :B cement concrete grade M-15 & M-20	Cum	8		
11	Providing and applying Dr. Fixit or Approved brand micro concrete for repairs of columns, beams, slabs and chajjas with water/powder ratio of 0.16 with thickness of 40mm. (3 bags per sqm of 25kg bag). including, scaffolding, shuttering (100% water tight), labour charges, HOM, materials etc. The work is to be executed as per the direction of engineers in charge.	Cum	4		
12	KSRB 4.2.8 : Providing and laying in position reinforced cement concrete of design mix M-20 with OPC cement @ 320 Kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregate @ 0.46 cum, with super plasticizers @ 3lts conforming to IS 9103-1999 Reaffirmed -2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in ground floor level for roof slabs, staircase, lintels, beams, retaining walls, return walls, walls ( any thickness) including attached pilasters, columns, pillars, posts, struts, buttresses, string or lacing courses, parapets, coping, bed blocks, anchor blocks, plain window sills, fillets etc., including cost of all materials, labour,HOM of machinery, curing, complete as per specifications. Specification No KBS 4.1,4.6.	Cum	8		
13	KSRB 4-6.7: Providing and removing centring, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam launchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2	Sqm	60		
14	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and/or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per Specifications.	M.T.	2		
15	Dismantling burnt brick masonry in clay mortar/lime mortar/cement mortar and stacking the bricks within a radius of 50m and removing the debris to a distance up to 200m.	Cum	12		
16	Dismantling of Door shutters, Window shutters and Ventilators. And staking the material in appropriate manner at suitable places up to 150m distance, inclusive of all lead and lift charges as per the direction of engineers in charge.	Nos	10		
17	Dismantling of door and window frames and making the good the wall and floor And staking the material in appropriate manner at suitable places up to 150m distance, inclusive of all lead and lift charges as per the direction of engineers in charge	Nos	10		
18	KSRB 7.11 : Providing and fixing in position aluminium windows, ventilators, Doors and partition wall as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length, joints mitred subdividing the frame tenoned and riveted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar.	Sqm	50		

19	KSRB 9.4.4: Providing White Sal wood frames of doors, windows, clerestory windows, ventilators and other frames, wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps), but including cost of materials, labour, HOM of machineries complete as per specifications.	Cum	5		
20	KSRB 9-7.3: Providing and fixing in position fully panelled Mathi/Nandi wood shutters for doors, styles and rails of 30mm. thick with bottom and lock rails 180mm wide top rail and styles 100mm wide as per drawing and panels of 25mm thick including cost of materials, labour, HOM of machineries complete as per specifications. (excluding cost of fixtures) Specification No. KBS 9.34	Sqm	13		
21	KSRB 14.14-5: Providing Ceramic tiles of approved make, shade and size for flooring, treads of steps and landings laid on a bed of 12mm thick, cement mortar 1:3 mix, flush pointing with white cement using colour pigment ,of size 30x30cms including cost of materials, labour, curing, complete as per specifications.	Sqm	75		
	mentioned specification shall be followed for ceramic tiles of 30x30cms 6mm thick				
	OR				
	a) Specification 14.17-2: glazed tiles flooring b) Specification 14.5: for granite laying flooring c) Specification 14.10.3: for cadapa slab flooring				
22	Supply and fixing of vinyl flooring	Sqm	25		
22	Miscellaneous works:				
	Window shutters, ventilators, door stoppers, fixtures , water saver products, resulting green features shall used where ever its feasible .				
23	Labour rates adopted as below				
	Skilled				
	1. Mason	Man Days	100		
	2. Furniture carpenter	Man Days	90		
	3. Shuttering carpenter	Man Days	90		
	4. Plumber (plumbing and sanitary )	Man Days	300		
	5.Welder	Man	20		
		Days			

	Unskilled/pump operators	Man Days	350		
	Helpers	Man Days	350		
24	Providing & Applying two coats of wall putty to inside plasters walls and ceiling, using white cement putty scraping and levelling the surface using steel blade and preparing the surface even and smooth by using different grade sand papers, including cost of all materials, labour and scaffolding etc, complete as per specifications	Sqm	100		
25	KSRB15-3.8: Providing 18 mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	40		
26	Engaging Tractor 50 HP for shifting materials, furniture's, of WALMI campus IIT Dharwad to specified locations/stores as per the direction of	Day	15		
27	Cleaning of overhead and underground tanks are required to be cleaned once in every 6 months.	Job	2		
28	Providing and fixing door closer/bottle type.	Each	5		
29	Providing and fixing mirror of superior glass (of approved quality) and of required shape and size with plastic moulded frame of approved make and shade with 6 mm thick hard board backing: Rectangular shape 1500x450 mm	Each	15		
30	Providing, laying and jointing glazed stoneware pipes class SP-1 with stiff mixture of cement mortar in the proportion of 1:1 (1 cement: 1 fine sand) including testing of joints etc. complete: 100 mm diameter	Meter	30		
31	Providing and fixing square-mouth S.W. gully trap class SP-1 complete	Each	5		
32	KSRB 12-8.3 Constructing brick masonry Inspection chamber in cement mortar 1:4 ( 1 cement : 4 coarse sand ) with R.C.C. top slab with 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size), foundation concrete 1:4:8 mix (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size), inside plastering 12 mm thick with cement mortar 1:3 (1 cement : 3 coarse sand) finished with floating coat of neat cement and making channels in cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) finished with a floating coat of neat cement complete as per standard design : Inside size 90x80 cm and 45 cm deep including C.I. cover with frame (light duty) 455x610 mm internal dimensions, total weight of cover and frame to be not less than 38 kg (weight of cover 23 kg and weight of frame 15 kg) : With common burnt	Each	5		
33	KSRB 12-7.1 Making connection of drain or sewer line with existing manhole including breaking into and making good the walls, floors with cement concrete 1:2:4 mix (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size) cement plastered on both sides	Each	5		
34	Providing and fixing 6mm bronze mutli wall polycarbonate sheet for tubular structure. The work including cost of all materials, labour charges and hire charges of machineries for cutting , welding, grinding and erection equipment, complete as per specification.	Sqm	100		
35	Plant propagating in pots, in garden areas and other necessary places on demand and maintaining them subsequently for good environment and aesthetics and nurturing them with fertilizers/manures, further	sqm			
35	S.S curtain Rod -25 mm diameter	Rmt	40		
36	S.S bracket for curtain rod with screws & accessories complete in all respect.	No.	60		
37	Providing JCB on hire basis	hour	50		
	Say				
Note: -					
	1.These quantities are Tentative and may vary.				
	2.Items to be executed as and when it needs attention.				
	3. Extra items will be paid as per market rate. Contractor has to produce invoice for the material.				
	4 Payment will be done as per Measurement of actual work done.				