



KARNATAKA ANTIBIOTICS & PHARMACEUTICALS LIMITED
BENGALURU

Doshi Consultants Pvt. Ltd.
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KARNATAKA ANTIBIOTICS & PHARMACEUTICALS LIMITED, BENGALURU.
ANNEXURE 1 - CIVIL WORKS BOQ PHASE- III

Date: 14.10.23

S.NO	SOR ITEM NO.	DESCRIPTION OF ITEM	UNIT	TOTAL QUANTITY	SOR RATE	AMOUNT	PERCENTAGE	PERCENTAGE IN WORDS
		Excavation in foundation, plinth beam over areas in all types of soils such as earth hard murrum, soft rock, marine clay, marshy land, running sand, garbage, slush, earth containing boulders not more than 350 mm size including shoring, dewatering wherever required & disposing of surplus earth (after utilization for back filling) any where within the plot area or part thereof including spreading, leveling, dressing, compaction etc. complete (Measurement shall be paid as per I.S. code).						
	NON SOR							
	a)	i) For depth from 0.0 to 5.0 M. (where 0.0 is NGL of respective location).						
		Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, rraming of bottoms, depth upto 750mm. including getting out the excavated soil, and then returning the River sand as required, in layers not exceeding 50 cm in depth including consolidating EACH deposited layer by rraming, watering, etc. with brick laying above the cable, and then returning the soil as required and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means)	CMT	1,595.54	200.00	3,19,368.38		
	NON SOR							
	NON SOR							
1	2.1	Earth work in surface excavation not exceeding 30 cm in depth but exceeding 1.5 m in width as well as 10 sqm on plan including getting out and disposal of excavated earth upto 50 m and lift upto 1.5 m, as directed by Engineer-in- Charge:						
	2.1.1	All kinds of soil	CMT	40.50	107.00	4,333.50		
2	2.6	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means over areas exceeding (30cm in depth, 1.5m in width as well as 10 SQM on plan) including dressing of sides and rraming of bottom disposal of excavated earth, lead upto 50m and lift upto 1.5m, disposed earth to be levelled and neatly dressed. (No extra lift is payable if work is done by mechanical means)						
		All kinds of soil	CMT	1,595.84	205.45	3,28,071.17		
3	2.7	Earth work in excavation/ by mechanical means (Hydraulic Excavator) / manual means over areas exceeding (30 cm in depth, 1.5m in width as well as 10 SQM on plan) including dressing of sides and rraming of bottom disposal of excavated earth, lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed.						
	2.7.1	Ordinary rock/Soft Rock						
	2.26	Extra for every additional lift of 1.5 m or part there of in exccation (raming excavated or stacked material.	CMT	5,972.01	412.95	24,55,142.69		
	2.26.1	All Kind of soil						
	2.26.2	Ordinary rock or hard rock	Cum	832.93	104.50	87,040.73		
			Cum	1,022.17	187.40	1,91,553.98		
5	2.13	Excavating trenches of required width for pipes, cables, etc. including excavation for sockets, and dressing of sides, rraming of bottoms, depth upto 1.5 m including getting out the excavated soil, and then returning the soil as required, in layers not exceeding 20 cm in depth including consolidating EACH deposited layer by rraming, watering, etc. and disposing of surplus excavated soil as directed, within a lead of 50 m : (No extra lift is payable if work is done by mechanical means)						
	2.13.1.2	Pipes, cables etc. exceeding 80 mm dia but not exceeding 300 mm.	METER	-	593.35	-		
	2.13.1.3	Pipes, cables etc. exceeding 300 mm dia but not exceeding 600 mm.	METER	-	1,074.00	-		
6	2.25	Filling available excavated earth(excluding hard rock/Ordinary rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating EACH deposited layer by rraming and watering, lead up to 50 m and lift upto 1.5 m.	CMT	5,365.38	253.95	13,62,539.40		
7	1.1	Transportation By Mechanical Transport including loading, unloading and stacking including all rentals, royalties and taxes etc						
	1.1.2	Upto 5 KMS. Location identify by contractor						
	1.1.2	Earth (debris).	CMT	1,771.34	271.45	4,80,830.92		



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	1.1.4	Excavated Rock	CMT.	2,895.36	434.32	12,57,512.76		
8	810	Brought from outside morum in foundation,plinth beams, trenches, plinth including spreading, leveling, dressing, watering, ramming & compaction well in layers of 300mm thickness with vibro roller (hand compactor /manual compaction will be permitted only in pits/narrow areas where compaction is not possible with vibro roller) as specified with soil obtained from excavation so as to obtain min. 95 % field density of MDD.		-		-		
	810	MOORUM	CMT.	15,144.54	500.00	75,72,321.95		
	983	Fine Sand	CMT.	-	900.00	-		
	982	Coarse sand (zone III)	CMT.	-	1,500.00	-		
		Anti-termite pipe system		-		-		
10	NON-SOR	Providing pre - construction 'Anti-termite treatment' of building including foundation trenches as per IS specifications (vide IS:6313 Part II of 1961) through specified firms dealing with pest control work (approved by consultants) giving ten years service guarantee. Pressure pump shall be used to carry out spraying and injecting operations to facilitate proper penetration of chemicals into the soil. (The area of treatment shall be building size + 1 Meter all around the periphery of the building & the measurement certified shall be only plinth area of the building).It should be start from foundation level.		-		-		
		Anti-termite chemical injected area	SQM	570.34	53.00	30,228.02		
11	4.1	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level :		-		-		
12	4.1.5	1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources) including line ,level ,curing etc	CMT	450.21	6,833.40	30,76,474.44		
13	16.79	Providing, laying, spreading and compacting graded stone aggregate (size range 53 mm to 0.075 mm) to wet mix macadam (WMM) specification including premixing the material with water at OMC in for all leads & lifts, laying in uniform layers with mechanical paver/finisher in sub- base / base course on well prepared surface and compacting with vibratory roller of 8 to 10 tonne capacity to achieve the desired density, complete as per specifications and directions of Engineer-in-Charge.	CMT	131.95	2,803.65	5,10,124.12		
14	NONO- SOR	Providing and spreading 40 mm down metal in layer of 75 mm thickness	SQM	1,553.00	120.00	1,87,560.00		
15	5.9	Centering and shuttering including strutting, propping etc. and removal of form for :		-		-		
	5.9.1	Foundations, footings, bases of columns, etc. for concrete M.S plates with high quality shuttering oil (For concrete surface which is either hidden from view or is specified to be separately finished with plaster)	SQM	3,197.50	307.95	9,84,668.94		
	5.9.2	Walls (any thickness) including attached pilasters, buttresses, plinth beams and string courses etc. With plywood (formwork required for concrete surfaces which may show some joint mark which should not be objectional and is presentable without any further treatment) using good quality water proof ply & high quality shuttering oil.Ply thickness will be 12 mm only .	SQM	3,300.04	669.55	22,09,541.78		
	5.9.3	Suspended floors, roofs, landings, balconies and access platform With plywood (formwork required for concrete surfaces which may show some joint mark which should not be objectional and is presentable without any further treatment) using good quality water proof ply & high quality shuttering oil.Ply thickness will be 12 mm only .	SQM	331.47	766.55	2,54,089.25		
	5.9.5	Lintels, beams, girders, bressumers and cantilevers. With plywood (formwork required for concrete surfaces which may show some joint mark which should not be objectional and is presentable without any further treatment) using good quality water proof ply & high quality shuttering oil.Ply thickness will be 12 mm only .	SQM	248.64	608.35	1,51,260.14		



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	5.9.6	Columns, Pillars, Piers, Abutments, Posts and Sills With plywood (formwork required for concrete surfaces which may show some joint mark which should not be objectional and is presentable without any further treatment) using good quality water proof ply & high quality shuttering oil.Ply thickness will be 12 mm only.	SQM	542.03	804.25	4,35,929.24		
	5.9.7	Stairs, (excluding landings) except spiral Staircases. With plywood (formwork required for concrete surfaces which may show some joint mark which should not be objectional and is presentable without any further treatment) using good quality water proof ply & high quality shuttering oil.Ply thickness will be 12 mm only.	SQM	-	657.75	-		
		Providing and laying in position ready mixed or site batched design mix cement concrete for plain cement concrete work, using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana/Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength, including pumping of concrete to site of laying, curing, cartage for all leads, but excluding the cost of centering, shuttering and finishing as per direction of the engineer-in-charge, for the following grades of concrete.		-		-		
16	4.20	Note: Extra cement up to 10% of the minimum specified cement content in design mix shall be payable separately. In case the cement content in design mix is more than 110% of the minimum specified cement content, the contractor shall have discretion to either re-design the mix or bear the cost of extra cement.		-		-		
	4.20.1	All works upto plinth level :						
	4.20.1.3	Concrete of M20 grade with minimum cement content of 270 kg /cum	Cum.	24.00	8,387.15	2,01,291.60		
		Providing and laying in position ready mixed or site batched design mix cement concrete for reinforced cement concrete work, using coarse aggregate and fine aggregate derived from natural sources, Portland Pozzolana / Ordinary Portland /Portland Slag cement, admixtures in recommended proportions as per IS: 9103 to accelerate / retard setting of concrete, to improve durability and workability without impairing strength, including pumping of concrete to site of laying, curing, cartage for all leads, but excluding the cost of centering, shuttering, finishing and reinforcement as per direction of the engineer-in-charge, for the following grades of concrete		-		-		
17	5.33			-		-		
	5.33.1	All works upto plinth level						
	5.33.1.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	CMT	-		-		
	5.33.1.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	CMT	2,429.20	7,997.30	1,94,27,063.83		
	5.33.2	All works above plinth level and upto floor V level.		-	8,599.35	-		
	5.33.2.1	Concrete of M25 grade with minimum cement content of 330 kg /cum	CMT	302.27	10,080.15	30,47,982.53		
	5.33.2.2	Concrete of M30 grade with minimum cement content of 350 kg /cum	CMT	-	10,221.70	-		
18	5.22	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete. (rate is including laps, chairs, spacers, etc.)		-		-		
	5.22.6	Thermo-Mechanically Treated bars (TMT/MX) FE 500 D or more conforming to IS 1786	KG	2,08,805.02	89.65	1,87,19,369.75		
19	4.7	Providing and fixing up to floor five level precast cement concrete solid block, including hoisting and setting in position with cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering, curing complete. size of block : 200 mm		-		-		
	4.7.1	1:1½:3 (1 Cement : 1½ coarse sand:zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	CMT	233.05	15,762.45	36,73,445.28		



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20	6.13 6.13.2	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand)	SQM	-	1,018.05	-	-	-
21	13 13.1 13.1.1	Providing and rendering 12mm. thick smooth cement plaster in CM 1:4 on internal masonry work or concrete surfaces in plumb using fine sand but without using extra cement at all heights including scaffolding, racking of joints, finishing smooth with fine sand to correct level, line, plumb including curing, moulding, grooves in plaster where ever to different materials meet or as per drawing (Rate shall include finishing the edges of electrical boxes, fittings or inserts fixed by other agencies. 12 mm cement plaster of mix : 1:4 (1 cement : 4 sand) Providing and rendering 20mm. thick smooth cement plaster in two coats in CM 1:4 on internal masonry work in plumb using fine sand but without using extra cement at all heights including scaffolding, hacking joints, finishing smooth with fine sand to correct level, line, plumb including curing, moulding grooves in plaster where ever to different materials meet or as per drawing 20 mm cement plaster of mix 1:4 (1 cement : 4 sand)	SQM	1,394.88	294.85	4,11,279.54	-	-
	13.3 13.3.1 13.47	Finishing walls with Premium Acrylic Smooth exterior paint with Silicone additives of required shade. New work (Two or more coats applied @ 1.43 ltr/10 sqm over and including priming coat of exterior primer applied @ 2.20 kg/10 sqm)	SQM	924.98	402.15	3,71,980.71	-	-
	13.47.1		SQM	11,985.79	162.35	19,45,893.01	-	-
	13.41	Distempering with oil bound washable distemper of approved brand and manufacture to give an even shade :		-	-	-	-	-
	13.41.1	New work (two or more coats) over and including water thinable priming coat with cement primer	SQM	-	162.55	-	-	-
	13.48A	VOC less than 50 gm/litre and UV resistance as per IS 15498:2004, Alkali & fungal resistance, dirt resistance exterior paint of required shade (Company Depot Tinted) with silicon additives.		-	-	-	-	-
	13.48A.1	New work (Two or more coats applied @ 1.43 litre/10 sqm. Over and including priming coat of exterior primer applied @ 0.90 litre/10 sqm.	SQM	1,063.09	154.45	1,64,193.82	-	-
	NON SOR 13.60 13.60.1	Providing & applying one coat of primer in interior wall. Wall painting with acrylic emulsion paint of approved brand and manufacture to give an even shade : Two or more coats on new work	SQM	25.79	120.00	3,094.80	-	-
	13.6	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	SQM	25.79	137.85	3,555.15	-	-
	13.8		SQM	25.79	123.85	3,194.09	-	-
22	22.22	Providing and mixing integral crystalline admixture for water proofing treatment to RCC structures like basement raft, retaining walls, reservoir, sewage & water treatment plant, tunnels / subway and bridge deck etc. at the time of transporting of concrete into the drum of the ready-mix truck , using integral crystalline admixture @0.80% (minimum) to the weight of cement content per cubic meter of concrete) or higher as recommended by the manufacturer's specification in reinforced cement concrete at site of work. The material shall meet the requirements as specified in ACI-212-3R 2010 i.e. by reducing permeability of concrete by more than 90% compared with control concrete as per DIN 1048 and resistant to 16 bar hydrostatic pressure. The crystalline admixture shall be capable of self-healing of cracks up to a width of 0.50mm. The work shall be carried out all complete as per specification and the direction of the Engineer-in-charge. The product performance shall carry guarantee for 10 years against any leakage	KG	2,460.24	332.40	8,17,783.78	-	-

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S.NO	SOR ITEM NO.	DESCRIPTION OF ITEM	UNIT	TOTAL QUANTITY	SOR RATE	AMOUNT	PERCENTAGE	PERCENTAGE IN WORDS
33	11.46	Providing and laying Vitrified tiles in different sizes (thickness to be specified by manufacturer), with water absorption less than 0.08 % and conforming to I.S. 15622, of approved make, in all colours & shade, in skirting, riser of steps, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand), jointing with grey cement slurry @ 3.3 kg/ sqm including grouting the joint with white cement & matching pigments etc. complete.		-	-	-		
	11.46.2	Size of Tile 600x600 mm	SQM	-	1,466.50	-		
34	8.31	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS: 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement: 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm, including pointing in white cement mixed with pigment of matching shade complete.	SQM	-	1,063.45	-		
35	NON-SOR	Providing and laying 4.5mm thick PU flooring including screed (Flow crete, U-crete BASF, Sikka, Fosrock/ BERGER or equivalent)	SQM	-	2,150.00	-		
36	NON-SOR	Providing and laying 250 micron PU Coating in Floor	SQM	-	450.00	-		
37	NON-SOR	Epoxy coving made with epoxy mortar with resin, hardener & talc powder to give smooth finish to epoxy coving with high viscous paint.		-	-	-		
		Junction of floor to wall	R.mt	-	550.00	-		
		size upto 3" to 4" radius	R.mt	-	425.00	-		
		2.5" radius	R.mt	-	375.00	-		
		pencil coving upto 1" radius	R.mt	-	310.00	-		
38	NON-SOR	Providing and applying anticorrosive epoxy/ FRP lining 1 mm Thick in Effluent Treatment Tank and in Manholes/ inspection chambers of effluent drain lines.	SQM	-	825.00	-		
39	NON-SOR	Providing & Fixing 45 mm thick GI flush door with frame having 1.2 mm GI sheet and rock wool 98 kg/m3 sandwiched sheet, shutter of 1.0 mm thick GI sheet including 5 mm thick toughened glass both side for view panel and all fittings, fixtures and hardware complete. (Make Shakti Hormann/ GMP or equivalent).		-	-	-		
	a)	D-0 1800X2100mm	Nos.	-	56,700.00	-		
	b)	D-1 1500X2100 mm	Nos.	-	47,500.00	-		
	c)	D-2 1200X2100 mm	Nos.	-	40,500.00	-		
	d)	D-3 900X2100 mm	Nos.	1.00	31,000.00	31,000.00		
	e)	D-4 750X2100 mm	Nos.	-	26,500.00	-		
	f)	D-5 2000X2400 mm	Nos.	-	77,500.00	-		
	g)	D-6 2400X3000 mm	Nos.	-	1,16,000.00	-		
	h)	D-7 3000X3000 mm	Nos.	-	1,50,000.00	-		
	i)	ED (EMERGENCY DOOR) 1500X2100 mm with panic Bar.	Nos.	-	51,975.00	-		
40	NON SOR	Providing and fixing 20 mm thick and 200/300 mm wide mirror polished Kota Stone slab at sill level below windows over 12 mm thick bed of cement mortar (1:3).	R.mt	4.60	710.00	3,266.00		
41	NON-SOR	Providing and fixing view panel / window/ ventilator with 15 micron anodised heavy aluminium section and 5mm thick clear single glass pane (float glass) as per drawing.		-	-	-		
42	NON-SOR	Providing 100 mm average thickness Brick bat coba on the terrace as per following:	Sqm	1.32	3,800.00	5,016.00		
	a)	Cleaning of the surface to be treated so that it is free from dust, dirt and other foreign matter.		-	-	-		
	b)	Wetting of the surface with water and laying the bed of cement mortar 1:5 maintaining the required slope.		-	-	-		
	c)	Embedding of brick bats of average thickness 100 mm, in Mortar bedding & filling of the joints with cement mortar 1:4 mixed with Pidiliter/ Dr. Fixit or equivalent make as approved by consultants water proofing chemical (proportioning to be done as per the recommendation of the manufacturer).		-	-	-		



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50	NON SOR	Providing & fixing of Y-shaped angle iron post 50x50x6, 2 m long angle post @ 3.0 m c/c in boundary at site including all necessary, labour, tools & tackles, scaffolding with one coat of primer and 2 coat of synthetic enamel paint etc complete.	Kg	424.80	110.00	46,728.00		
51	16.53	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre operable length (total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apart and with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	Rmt.	91.00	303.65	27,632.15		
52	16.70	Providing and fixing G.I. chain link fabric fencing of required width in mesh size 50x50 mm including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per the direction of Engineer-in-charge.		-	-	-		
	16.70.1	Made of G.I. wire of dia. 4 mm.	SQM	739.20	859.50	6,35,342.40		
	16.70.2	Made of G.I. wire of dia. 4 mm, PVC coated to achieve outer dia not less than 5 mm in required colour and shade	SQM	254.00	901.65	2,29,019.10		
53	1.00	Providing, Fabricating & fixing of M.S. structure made up of square/round pipes of different dia. Including bottom rail wheels, top guide rail etc complete in line & level with one coat of primer and 2 coat of synthetic enamel paint.		-	-	-		
	(a)	Do but with sliding MS gate of required size including wicket gate (Gandhi automation or equivalent).	Sam.	6.00	22,000.00	1,32,000.00		
54	NON SOR	Providing Fabricating & fixing of G.I. chain linked fencing sliding gate size (4.5 x 2 m) made up of square/round pipes with 50x50x6 mm angle of different dia. etc complete in line & level. As per attached drawing	Sqm.	6.30	5,722.00	36,048.60		
55	10.25	supplying and fixing steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required.		-	-	-		
	10.25.1	In stringers, treads, landings etc. of stair cases, including use of chequered plate wherever required, all complete	KG	-	102.00	-		
	10.25.2	In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works	KG	29,082.38	142.30	41,38,422.64		
56	2612	Providing and fixing Anchor Fastner - M10	each	-	11.00	-		
57	16.91	Providing and laying factory made chamfered edge Cement Concrete paver blocks in footpath, parks, lawns, drive ways or light traffic parking etc, of required strength, thickness & size/ shape, made by table vibratory method using PU mould, laid in required colour & pattern over 50mm thick compacted bed of sand, compacting and proper embedding/laying of inter locking paver blocks into the sand bedding layer through vibratory compaction by using plate vibrator, filling the joints with sand and cutting of paver blocks as per required size and pattern, finishing and sweeping extra sand, complete all as per direction of Engineer-in-Charge.		-	-	-		
	16.91.1	60mm thick cement concrete paver block of M-35 grade with approved colour, design & pattern.	SQM	12,921.00	932.35	1,20,46,894.35		
	16.91.2	80 mm thick C.C. paver block of M-30 grade with approved color design and pattern	SQM	928.00	1,011.20	9,38,393.60		



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58	13.52	Supplying and Finishing with Epoxy paint (two or more coats) at all locations prepared and applied as per manufacturer's specifications (Berger/ Iscor/ sikk) including appropriate priming coat, preparation of surface, etc. complete.	-	-	-	-	-	-
	13.52.1	On steel work	-	-	-	-	-	-
	13.52.1	On steel work	SCM	570.00	201.70	1,14,959.00	-	-
59	NON SOR			-	-	-	-	-
	1	Providing and fixing 14 gauge barbed wire, fixed with U-Clamp in 5 rows, straight	mt	300.00	250.00	75,000.00	-	-
	(a)	Same as above item no 1 but including removing and refixing of angle.	Rmt	-	300.00	-	-	-
	2	Providing and fixing 25 X 5 M.S. plate welded diagonally in every alternate way.	kg	900.00	130.00	1,17,000.00	-	-
	(b)	Same as above item no 2 but including removing and refixing of angle.	kg	-	180.00	-	-	-
	3	Providing and fixing 50 X 50 X 6 mm M.S. angle	kg	3,348.00	130.00	4,35,240.00	-	-
	c	Same as above item no 3 but including removing and refixing of angle.	kg	-	180.00	-	-	-
60	16.69	Providing and laying at or near ground level factory made kerb stone of M-25 grade cement concrete in position to the required line, level and curvature, jointed with cement mortar 1:3 (1 cement: 3 coarse sand), including making joints with or without grooves (thickness of joints except at sharp curve shall not to more than 5mm), including making drainage opening wherever required complete etc. as per direction of Engineer-in-charge (length of finished kerb edging shall be measured for payment). (Precast C.C. kerb stone shall be approved by Engineer-in-charge).	CUM	405.00	8,613.55	34,88,487.75	-	-
61	16.48	Painting road surface marking with adequate nos of coats to give uniform finish with ready mixed road marking paint conforming to IS : 164, on CONCRETE surface in white/yellow shade, including cleaning the surface of all dirt, scales, oil, grease and foreign material etc. complete	-	-	-	-	-	-
	16.48.1	New Work (Two or more coats)	SQM	5,400.00	239.95	12,95,730.00	-	-
62	16.59	Manufacturing, supplying and fixing retro reflective sign boards made up of 2 mm thick aluminium sheet, face to be fully covered with high intensity encapsulated type heat activated retro reflective sheeting conforming to Type - IV of ASTM-D 4956-D1 in blue and silver white or other colour combination including subject matter, message (bi lingual), symbols and borders etc. as per IRC : 67/2001, pasted on substrate by an adhesive backing which shall be activated by applying heat and pressure conforming to class -2 of ASTM-D-4956-D1 and fixing the same with suitable sized aluminium alloy rivets @ 20 cm c/c to back support frame of M.S. angle iron of size 25x25x3 mm along with theft resistant measures, mounted and fixed with 2 Nos. M.S. angles of size 35x35x5 mm to a vertical post made up to M.S. Tee section ISMT 50x50x6 mm welded with base plate of size 100x100x5 mm at the bottom end and including making holes in pipes, angles flats, providing & fixing M.S. message plate of required size, steel work to be painted with two or more coats of synthetic enamel paint of required shade and of approved brand & manufacture over priming coat of zinc chromate yellow primer (vertical M.S. Tee support to be painted in black and white colours) Backside of aluminium sheet to be painted with two or more coats of epoxy paint over and including appropriate priming coat including all leads and lifts etc. complete as per drawing, specification and direction of Engineer-in-charge.	-	-	-	-	-	-
	16.59.1	Mandatory/ Regulatory sign boards of 900 mm diameter with support length of 3750 mm	EACH	20.00	5,745.95	1,14,919.00	-	-
	16.59.2	Cautionary /warning sign boards of equilateral triangular shape having each side of 900 mm with support length of 3650 mm	EACH	20.00	4,209.20	84,184.00	-	-



KARNATAKA ANTIBIOTICS & PHARMACEUTICALS LIMITED
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ANNEXURE I - CIVIL WORKS BOQ PHASE- III

Date: 14.10.23

S.NO	SOR ITEM NO.	DESCRIPTION OF ITEM	UNIT	TOTAL QUANTITY	SOR RATE	AMOUNT	PERCENTAGE	PERCENTAGE IN WORDS
63	10.26	Providing and fixing hand rail of approved size by welding etc. to steel ladder railing, balcony railing, staircase railing and similar works, including applying priming coat of approved steel primer.		-	-	-		
	10.26.1	M.S. tube	KG	-	157.15	-		
64	NON SOR	Providing & fixing PVC pipe sleeves 300mm long for services in RCC at locations marked in the drawing or as per instructions of engineer in-charge.		-	-	-		
	a)	Up to 75 mm dia	Nos.	2,600.00	145.00	3,77,000.00		
65	NON SOR	Supply and fixing Anchor Bolts with required threads as per engineer in-charge up to 300 mm to 1200 mm in length		-	-	-		
66	NON SOR	same as above only fixing	QUINTAL	45.00	9,200.00	4,14,000.00		
			QUINTAL	45.00	3,000.00	1,35,000.00		
67	15.2	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in-charge.	CUM	50.00	2,928.10	1,46,405.00		
68	16.62	Providing and applying 2.5 mm thick road marking strips (retro reflective) of specified shade/ colour using hot thermoplastic material by tully/ semi automatic thermoplastic paint applicator machine fitted with profile shoe, glass beads dispenser, propane tank heater and profile shoe heater, driven by experienced operator on road surface including cost of material, labour, T&P, cleaning the road surface of all dirt, seals, oil, grease and foreign material etc. complete as per direction of Engineer-in-charge and accordance with applicable specifications	sqm	1,031.85	623.80	6,43,668.03		
69	16.50	Providing and fixing Glow studs of size 100x20 mm made of heavy duty body shall be moulded ASA (Acrylic styrene Acrylonitrile) or HIP (High impact polystyrene) or ABS having electronically welded micro- prismatic lens with abrasion resistant coating as approved by Engineer in charge. The glow stud shall support a load of 13635 kg tested in accordance with ASTM D4280. The slope of retro- reflective surface shall be 35 (+/-5) degrees to base. The reflective panels on both sides with at least 12 cm of reflective area up each side. The luminance intensity should be as per the specification and shall be tested as described in ASTM I: 809 as recommended in BS: 873 part 4 ; 1973. The studs shall be fixed to the Road surface using the adhesive conforming to IS, as per procedure recommended by the manufacturer complete and as per direction of Engineer-in-charge.	Nos	-	175.50	-		
70	NON SOR	Providing and fixing 3M stud solar blinker LED light dimension 90 mm X 100 mm including all necessary arrangement	Nos	764.33	2,463.00	18,82,553.00		
71	NON SOR	Providing and fixing 3M Breaker solar blinker LED light, including all necessary arrangement	Rmt	100.00	1,478.00	1,47,800.00		
72	NON SOR	Core cutting in RCC upto 250 mm thk	Nos.	-	-	-		
	a)	75 mm dia	Nos.	2,600.00	395.00	10,27,000.00		
	b)	100 mm dia	Nos.	20.00	591.00	14,200.00		
	c)	150 mm dia	Nos.	15.00	710.00	14,610.00		
	d)	200 mm dia	Nos.	20.00	974.00	19,480.00		
73	NON SOR	Rebaring gROUTING (with tully M/C) reinforcement dowels with epoxy chemicals		-	-	-		
	a)	25 mm Dia	Nos.	50.00	784.00	39,200.00		
	b)	20 mm Dia	Nos.	60.00	700.00	42,000.00		
	c)	16 mm Dia	Nos.	40.00	656.00	26,240.00		

