

Sl No	Description	Unit	Quantity	Rate
1	<b>Ordinary Soil:</b> KSRB 2-2 : Earthwork excavation by Manual means for foundation of buildings, water supply and sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in 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 m. including breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5	Cum	2735.01	328.9
2	<b>Hard Soil:</b> KSRB 2-2 : Earthwork excavation by Manual means for foundation of buildings, water supply and sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in 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 m. including breaking of clods complete as per specifications. specification. No. KBS 2.1(a) / 2.3.5	Cum	43.6	492.8
3	KSRB 2-2 : Earthwork excavation by Manual means for foundation of buildings, water supply and sanitary lines and electrical conduits etc., either in pits or in trenches 1.5m and above in width, in soft rock/ordinary rock not exceeding 1.5 m. in depth including , stacking the excavated stuff clear from edges of excavation with lead upto 50 m. including cost of explosives ,labour HOM complete as per specifications. specification. No. KBS 2.1.c/ 2.9.4/2.18/2.19 KSRB 2-2.4: in soft rock ordinary rock without blasting	Cum	154.18	1563.1
4	KSRB 4-1.2 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC @ 220 kgs, with 40mm and down size graded granite metal course aggregates @ 0.892 cum and fine aggregates @ 0.465 cum machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications. Specification No. KBS 4.1, 4.2	Cum	856.23	6175.4
5	KSRB 5.2-3 : Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammered dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum	161	5883.9
6	KSRB 2.3 : Filling available excavated earth ( excluding rock ) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	Cum	6765.29	221.1
7	KSRB 5-14: Providing and constructing load bearing wall with solid concrete block having block density not less than 1800kg/m <sup>3</sup> having a minimum average compressive strength of 4.00 N/mm <sup>2</sup> conforming to IS 2185(Part 1):2005 and constructed with CM 1:4 as per IS 2572:2005 including cost of all material, labour charges,scaffolding,curing,hire charges of machinery etc.,complete as per specifications.KBS No.5.4	Smt	618	1059.3
8	KSRB 6-7:Construction of partition wall 11.2cms thick with non modular ground moulded burnt brick of class designation with CM 1:4 including providing and fixing plaster mesh manufactured out of hot dipped galvansised iron of nominal thickness 0.35mm 100mm wide as per IS 2212/1991 st 7.5c/c including cost of materials,labours charges,scaffolding,curing complete as per specification	Smt	231	1147.3
9	KSRB15-3.11 : Providing 20mm thick cement plaster in single coat with cement mortar 1:4, to stone masonry / concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm	5220	300.3
10	Providing and installing of pre painted Galvalume iron Trapezoidal profiled sheet of approved make 1060mm width(1000mm cover width)28-30mm crest height with crest distance of 200mm c/c with 2 ribs at the center for the stiffening.The total thickness(TCT) of the sheet will be .47mm +/- 0.02 mm tolerance.Zinc - Alu Alloy coating AZ150 gsm as per the ASTM 1397/A755-550 mpa steel grade, 5-7 microns epoxy permier on both side of sheet and polyster top coat 20-22 microns using self drilling/self tapping screws of 25mm length, to be over the existing purlins,raffters,channels and trusses.Page No 299	Sqm	1213.5	756.8
11	Fabrication supplying and erecting M.S tubular truses of all spans as per approved drawing and design prefebricated steel applications using quality material are durable,reliable and corrsion and abrasion resistant.Weldin shall confirm to structural welding code.Quality shall be on various parameters like shape,size,design guage and polish.The entire struss is anchored in RCC column by using 4nos of MS anchor bolts at each support with 10mm thick base plate and shoe plate. The work includes cutting,straightning,placing in position of MS pipes and welding where ever necessary and applying one coat of redoxide primer coat to all the members including coat of all material,labour charges and hire charges of machinaries for cutting,welding,grinding	Kgs	20097.6	122.10

12	Providing applying two coats of wall putty to inside plastered 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 material, cost of labour and scaffolding etc complete as per completion. Page No 128 & SI No 15.106 : Area to be considered- a) 100% for fresh surface	Sqm	927.15	85.8
13	KSRB 15-15.2: Do with Primer Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost material, labour, complete as per specification.	Sqm	927.15	99
14	Providing and finishing external wall in two coats over one coat of 100% acrylic silicon glazed primer with antifungal paint for top coat of approved brand and shade to give an even shade after thoroughly brooming the surface to remove all the dirt and loose powered material, free from mortar drops and other foreign matter cost of material, labour, complete as per specification. Page No 127 & SI No 15.104	Sqm	3146.07	198
15	KSRB:15-18.1 Applying red lead readymix primer coat over new steel or other metal surface including preparing the surface after thoroughly cleaning oil grease, dirt and other foreign matter, and scoured with wire brushes, fine steel wool, sand paper including cost of materials, labour complete as per specifications. Page No 123	Sqm	1558.53	45.1
16	KSRB 7.5: Providing and fixing Pull and push type roofing shutter of approved make of 18 gauge, 75mm wide cold rolled steel laths of convex corrugation, with side guides and bottom rail, with interlocking arrangements for steel laps by means of alternate clips, suspension shaft with high tension coil type springs two numbers, mounted on specially designed pipe shaft, with bracket plates, guide channels, ball bearing arrangements, for inside and outside locking with pull and push operation complete including pulling hooks 4nos. Handles with all fittings and accessories, painted with coat of red lead paint (Without top cover) coat of materials, labours, HOM complete as per specifications. Shutter size 3.00m x 2.8m . Page No 33	Sqm	392.8	2867.7
17	KSRB 7.6: Providing and fixing top covers made out of 20 gauge M.S sheet over pull and push roofing bent to shape including cost of red lead primer coat of painting, material, labour, HOM complete as per specifications .Page No 34.	Rmt	104	530.2
18	Providing & Laying platform using prepolished, water cut/gang saw 40mm thick telephonic black grinite, laid on existing vertical supports and fixing in CM 1:3 proportion. Including cutting to required shape pattern with paper joints including full rounding for nosing, finishing with cement mortar, pointed with color pigments to match the color of slab making through jointing with sealant making holes 25mm x 12mm grooves in joints including cost of materials, mortar, labor curing etc, as per specification Page No 110 & SI No 14.52	Rmt	21	3877.5
19	KSRB 15-14.1 : Providing and applying two coats with oil bound washable distemper of approved brand and shade on wall surface including priming coat with distemper primer after thoroughly brooming the surface free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour, complete as per specifications. Page No 119	Sqm	41	121
20	KSRB 15-18.2: Providing and supplying Enamel paint 02 coats (excluding primer coat) over new steel or other material surface brushing to give an even shade after cleaning oil, grease, dirt and other foreign matter, including coat of materials, labour complete as per the specification. Page No 123	Sqm	778	104.5
21	KSRB 4.2.1: Providing and laying in position reinforced cement concrete of design mix M25 with OPC at 340kgs with 20mm and down size graded grinite metal coarse aggregate at 0.70 cum and fine aggregates at 0.47 cum, super plasterised at 3lts confirming to IS 9103-1999 reaffirmed-2008 at machine mix, concrete laid in layers 15cms thick, vibrated for all works in foundation for footings, pedestals, retaining walls, return walls, walls (any thickness including pilasters, columns, pillars, posts, struts, buttresses, bed blocks, anchor blocks and pins etc, including cost of material, labour, HOM curing complete but excluding cost of reinforcement as per specification. Page No 14	Cum	189	6817.8

22	Fabricating,providing and erecting in position of Hot dip galvonised MS ornamental security grill using 75X12mm MS flat for all round frame work with verticals at the center and horizontal center support MS square of 20X20mm of different heights as shown in the drawing are to be fixed at 16cms C/C for square bars of full height and at 8cms C/C for bottom rods providing ornamental CI designs at the bottom and CI arrow in the middle and top the entire frame work is to be fixed by means of expansion bolts to the brick pillars with necessity drilling holes. The work includes providing two coats of Enamel painting over one coat of read lead ready mix primer coat etc complete cost of labour, painting,erection charges using hoist pulley cranes with all lead and lift,loading transporting and unloading using the hoist pullycranes,scaffoldings charges and all other incidental charges required to the successfull completion of the work as per specification and drawings.Page No 44 & SI No 7.34	KG's	8000	196.9
23	Providing and fixing M.S. Gate as per Chief Architect drawing, using 50 mm x 50 mm 14 guage M.S. Hollow pipe frame work bent to ornamental shape as shown in the drawing and 35 mm x 6 mm and 16 mm x 16 mm square rods for verticals alternatively spaced at 4 cms c/c in two halves and 40 mmx 6 mm M.S. flats for horizontal member and at the top cast iron spikes are provided at alternative vertical members as shown in the drawing etc., complete. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint ( shop paint) etc., complete. The work includes cost of all materials, about charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, with lead and lift, loading and unloading charges, etc., complete as per S.R. specifications. Page No 45 & SI No 7.37	Sqm	30.24	3313.2
24	Providing and fixing 304 - grade stainless steel hand rails of 14 - guage pipes for ramps staircase made out of stainless steel hollow pipes, using 50 mm dia for verticals @ 1.60 mtr c/c fixed to the ramps or steps by drilling with bolts and 100 mm dia MS base plates 10 mm guage for fixing of vertical pipes -4 Nos.anchor bolts and 40 mm dia pipes fixed horizontally for two - rows top, one pipe fixed with vertical pipes, another one fixed with elbows and 25 mm dia pipes are fixed horizontally for two rows below top measure at equal intervals including cutting, welding, bending, wherever necessary with suitable gaps at tops, bottoms and corners finishing with matt or shining etc., complete including cost and conveyance of all materials, labour for all items of work, capital HOM with lead and lift, loading and unloading , transportation charges and all other incidental charges etc, complete as per specification and directions of the engineers incharge of the work. Page No 45 & 7.39	Sqm	135	5910.3
25	KSRB 4-1.2 : Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 320 kgs, with 20mm and down size graded granite metal course aggregates @ 0.69 cum and fine aggregates @ 0.46 cum with superplasticiser @ 3 Ltrs conforming to IS9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms. thick, vibrated for beams, columns of all sizes in foundation, plinth and superstructure ground floor level for roof slabs, staircase, lintels, columns including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1. 4.6	Cum	533.93	6642.9
26	KSRB 4.9.2 : Providing TMT 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. Specification No. KBS 4.6.3.Page No 18	Tonne	45.96	77860.2
27	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifcaitions. Specification No. KBS 4.6.2 Page No 16	Sqm	144.5	289.3
28	KSRB 4-6.4 : Providing and removing centering, shuttering, propping etc.,and removal of form work for vertiical surface such as walls at any thickness including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifcaiton. Specification No. KBS 4.6.2 Page No 16	Sqm	4083.5	397.1
29	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifcaitions For Heights Upto 3.50 Metre from ground level.Specification No. KBS 4.6.2. Page 16	Sqm	850.2	495
30	KSRB 4-6.9 :Providing and removing centering, shuttering, strutting, propping removal of form work etc, for edges of slabs and breaks in floor, cills, plinth including cost of all materials, labour complete as per specifcaiton. Specification No. KBS 4.6.2.Page No 17	Sqm	285.9	910.8
31	Providing and laying/fixing cement base, precast, pre polished cement concrete, designer tiles 25 mm thick for flooring conforming to IS 1237 heavy duty tiles for flooring, treads of steps and landing, laid on a bed of 12mm thick cement mortar 1:3 mix finished with flush pointing using white cement, including cost of materials, mortar, including cutting, grinding the edge to half/full round wherever required, labour, curing complete as per specification.Page No 112 & SI No 14.62	Sqm	1246.5	1356.3
32	KSRB15-3-13 : Providing 12mm thick cement plaster in single coat with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.Page No 116	Sqm	19.2	259.6

33	Providing & constructing laterite size stone masonry including cost and conveyance of all materials curing etc complete as per specifications IS 3620-1979 having compressive strength not less 3.5N/mm <sup>2</sup> for saturated dry samples. 42.5.3: For superstructure in CM 1:6(Cement 45kg/m <sup>3</sup> )	Cum	339	3729.9
34	KSRB15-4.6 Extra for providing and mixing waterproofing compound in cement plaster for brick masonry work at one kg per bag or in the proportion recommended by the manufacturers, for cement mortar 1:3, 20mm thick cost of materials complete as per specifications. Page No 116	Sqm	399	12.1
35	Providing and fixing 20mm thick gang saw cut Lakared grinite for cladding in CM 1:4 proportion with a coat of rough plastering using CM1:4 cut to required shape, pattern with paper joints, finished with cement mortar using white cement and color pigments to match the color of slab making through jointing with sealant, grooves in joints including cost of curing etc. complete including cost and conveyance of all materials, mortar, labor for all items of work, HOM etc., complete as per specification. Page No 111, SI No 14.60	Sqm	133	3820.3
36	KSRRB M300-14: Excavation for road work in all types of soil by mechanical means including cutting and loading to tipper, trimming bottom and side slopes in accordance with requirements of lines, grades and cross section and transportation with a lead of 1.00KM and complete as per specifications. MORTH Specification No.301, Page No 143	Cum	2461	45.1
37	Providing and fixing Pre cast solid cement concrete kerb stones made out of C.C. 1:2:4 with top and bottom width 114 and 165 mm respectively, 400 mm high and 450 mm in length finished with CM 1:3, plastering and finishing cutting, including formwork, curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc., complete. Page No 27	Nos	3382	463.1
38	KSRB 14.6-1 : Providing and laying heavy duty cobble stones 60mm thick interlock pavers, using cement and coarse sand for manufacture of blocks of approved size, shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed ( average thickness ) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to come up in between joints, final compaction of paver surface joints into its final level, including cost of materials, labour and HOM of machineries complete as per specifications. Page No 103	Sqm	3873	1161.6
39	KSRRB M800-6, Painting two coats on new concrete surface: Painting two coats after filling the surface with synthetic enamel paint in all shades on new plastered concrete surfaces complete as per specification: MORTH specification No.803, Page 181	Sqm	1206	90.2
40	KSRRB M300-49: Scarifying bituminous course 50mm to 75mm thick along with premix carpet/surface dressing by manual means without disturbing the base and stacking of the debris materials including cost of all labour charges as per specifications. MORTH/Chapter 3, Page No 146	Sqm	5255.3	99
41	KSRRB 300.2: Earth work excavation by manual means for roads, drains & similar works in ordinary soil excavated surface levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH/Chapter 3, Page No 143 - In hard soil	Cum	3153.18	196.9
42	KSRRB M600-1. Providing and constructing dry lean cement concrete mix CC 1:5:10 base with OPC 25mm and down size graded grinite metal coarse aggregate at 0.86cum and fine aggregate @0.58 cum over a prepared sub-base, coarse and fine aggregate conforming to IS:383-2016, aggregate cement ratio not to exceed 15:1, Aggregate gradation after blending to be as per Table 600-1, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10Mpa at 7days, mixed in batching plant transported to site, laid with the paver, compacting with 8-10 tonnes vibratory roller, finishing and curing complete as per specifications. Clause 601 of MORTH V revision and IS 456 Table -5. with OPC at 150 kg/cum and coarse aggregates 0.86cum, fine aggregate 0.58cum using concrete batch mix plant at 75 cum/hr capacity with slip from paver with electric sensor, Page No 174	Cum	525.53	4452.8
43	Providing groove cutting of width of 5mm to 10mm and depth of 80-100mm including cost of cutting machine generator and HOM including cost of blade coolant etc. Including cleaning of groove and providing sand and hot bitumen fillers and filler metal etc. including conveyance of all material labour lead and lift charges and all other incidental charges as per drawing and as per specification. Page No 176 - For Concrete pavement	Rmt	2145	148.5
44	Retro-Reflectorised Traffic Signs- Providing and fixing of retro reflectorised cautionary, mandatory and informative signs as per IRC 67 made of high intensity grade sheeting vide clause 801.3, fixed over aluminium sheeting, 1.5mm thk supported on mild steel angle iron post 75mmX75mmX6mm firmly fixed to the ground by means of properly design foundation with M15 grade cement concrete 45cmX45cmX60cm, 60cm below Ground level as per approved drawing. Page No 180 - 600MM Equilateral triangle - Type XI	Nos	8	2768.7
45	KSRRB M800-13. Road Marking with hot Applied Thermoplastic compound with Reflecting Glass Beads on Concrete Surface: Providing and laying of hot Applied thermoplastic compound 2.5mm thick including reflectorising glass beads at 250 gms and 2Ltr of Primer per sqm area, thickness of 2.5mm is exclusive of surface, applied glass beads as per IRC:35. The finished surface to be level, uniform and free from Streaks and holes complete as per specifications. MORTH Specification No.803. Page No 182	Sqm	50	471.9
46	KSRB 14.13-2: Providing precast chequered mosaic tiles light shade using white cement for steps and flooring, 20mm thick using marble chips of 7 to 10 nominal size laid in floors, steps and landings on a bed of 12mm thick cement mortar 1:3 mix, and jointed with neat cement slurry mixed with pigment to match the shade of tiles curing, rubbing, polishing, oxalic acid wash, wax polish, including cost of materials, labour, complete as per specifications. Specification No. KBS 14.13, 14.14 Page No 107	Sqm	1575	1293

47	KSRRB 500-11. Providing and laying bituminous macadam on prepared surface with crushed coarse aggregates as per design mix formula for base/ binding course including loadin of aggregates with F.E. Loader, hot mixing of stone aggregates and bitumen in hot mix plant, transporting the mixed material in tipper to paver and laying mixed materials with paver finisher to the required level and grade, rolling by smooth wheeled, vibratory & tandem rollers to achieve the desired density, but excluding cost of primer/ tack coat & including lead, lift and cost of all materials, labour, HOM complete as per specificaions. Clause 504 of MORTH V revision,Page No 159	Cum	70.85	7058.0
48	KSRRB M600-2.Providing and constructing un-reinforced,dowl jointed,plain cement pavement Quality concrete fo pavements using grade concrete M40 having Flexural strength not less than 4.50 Mpa over a prepared base with OPC.coarse aggregate at 0.64 cum,fine aggregates at 0.36cum,coarse and fine aggregates confirming to IS:383-2016 and Table 600-3 of MORTH V revesion, with superplastizer at 3 its confirming to IS 9103-2008,loading materials to batch mix plant as per approved mix design,transported to site in transist truck agitator 5cum capacity, laid with paver, compacted cost for providing contraction,expansion construction and longitudinal joints,joint filler,separation membrane of imperable plastic sheet of 125micron,groove cutting sealent primer joint,sealent de bomding strip,dowel bars at 9kg/cum, tie rods at 1.15 kg/cum admixures as approved, curing compound finishing to lines and grades.Textured with texturing machine and curing including ost of all maters, labour,hire charges of Machinaries all lead and lift etc complete as per specifications. Clause 601 of MORTH V Revision and IS 456 Table-5. S R Item No 22 2 Page 174 & 175	Cum	1051.06	6285.4
49	KSRRB M200- 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.Page No 139	Cum	110	499.4
50	KSRRB M200-17.1 -do-v) Steel work in all types of sections upto a height of 5 m above plinth level excluding cutting of rivet. - A. Including dismembering,Page No 140	Tonne	1.5	2082.3
51	KSRRB 300-3. Earthwork excavation and forming in embankment by manual means in ordinary soil (When earth is taken from bank cutting or from borrow pits) including breaking of clods, spreading to required lines and level, forming, and cost of all labour complete as	Cum	1800	180.4
52	KSRRB M300-1. Spreading of sludge farm yard manure or/ and good earth in required thickness ( cost of sludge, farm yard manure or/nd good earth to be paid for seperately) completes as per sepecifications. MORTH Specification No. 307,Page No 149	Cum	900	113.3
53	KSRRB M300- 2.1. Grassing with Doobs grass including watering and maintenance of the lawn for 30 days or more till the grass forma a thick lawn free from weeds and fit for moving including supplying good earth if needed complete as per specifications. MORTH Specification No. 07 i)In rows 15cm apart in either direction.Page No 148	Sqm	1500	50.6
54	KSRRB M300-3. Making lawns including ploughing and breaking of clod, removal of rubbish, dressig and supplying doobs grass roots and planting at 15cm apart, including supplying ans spreading of farm yard manure at rate of 0.18 cum per 100 sqm completes as per specification. MORTH Specification No. 307,Page No 148	Sqm	1500	17.6
55	KSRRB M300-7.1. Planting permanent hedges including digging of trenches, 60cm wide and 45cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.56 cum per 100 meters and supplying and planting hedge plants at 30cm apart completes as per specifications. A) Planting permanent hedges including digging of trenches. MORTH Specification No.307,Page No 149	Nos	250	325.6
56	KSRRB M300-7.1. Planting permanent hedges including digging of trenches, 60cm wide and 45cm deep, refilling the excavated earth mixed with farmyard manure, supplied at the rate of 4.56 cum per 100 meters and supplying and planting hedge plants at 30cm apart completes as per specifications. Maintenance of hedge for one year,Page No 149	Nos	250	228.8
57	KSRRB M300- 8.1. Planting and Maintaing of Flowering Plants and Shrubs A) Planting flowering plants and shrubs in central verge MORTH Specification No. 307,Page 149	Rmt	600	50.6
58	KSRRB M300-8.2-do- Maintainence of flowering plants and shrubs in central verge for one year - for 1 km,Page 149	Km	0.85	240617.3
59	KSRRB M300-9. Planting of trees by the road side (Avenue trees) in 0.60m dia holes, 1m deep dug in the ground, mixing the soil with decayed farmyard/ sludge manure, planting the saplings, backfilling the trench, watering, fixing the tree guard and manintaing the plants for one year complete as per specifications. MORTH Specification No. 07,Page No 149	Each	80	1155
60	KSRRB 200 Cutting of Trees KSRRB 200-1. Cutting of trees girth from 300 mm to 600 mm including cutting of trunks, branches and removal of stumps roots stacking of serviceable materials earth filling in the depression/ pit, labour charges complete as per specifications. MORTH specification clause 201/ Chapter 2 ,Page No 138	Each	22	328.9
61	KSRRB M200-8 Clearing and grubbing road land including uprooting rank vegetation, grass, bushes , shrubs, saplings and trees girth up to 300 mm, by manual means, in area of light jungle, removal of stumps, disposal of unserviceable materials, stacking of serviceable materials, labour charges complete as per specifications.MORTH/Chapter 2	Sqm	100	11
62	Construction of Granular sub base grading -V as sub base and drainage layer by providing coarse graded crushed stone aggregates of grinate/trap/basalt material, mixing in a mechanical mix plant at OMC,carriage of mixed material to wotk site,spreading in uniform layers with mortar grader or prepared surface and compacting with vibratory power rooler to achieve the 98% proctor density, complete as per the specification clause 401 of MORTH V Revesion.,Page No 153,SI No 20.4	Cum	525.53	2382.6
63	Stamped concrete, Cooling of Concrete, Placing, Vibration & curing of concrete	Sqm	5502	1657.04
64	Planting of Tall plants/shrubs as per the approved list attached	Each	1100	400
65	Planting of Medium height plants/shrubs as per the approved list attached	Each	2250	100
66	Planting of Small height plants/shrubs as per the approved list attached	Each	2400	150
67	Mexican grass lawn	Sqm	1000	410

68	Tree (Minimum 3 Years old)	Each	80	9000
69	Cost of transport, Replanting using JCB	Ls		
70	Granite work - 10' Karkala stone Pergola set	Each	12	145000
71	Granite work - Coping stone 2" thick x 1'0" wide	Each	200	1333.3
72	Granite pillars - East plaza Pergola - 0.45 m dia x 5.75 m dia height	Rmt	57.5	16696
73	Granite pillars - East plaza Pergola - 0.45 m dia x 4.75 m dia height	Rmt	47.5	16526.32
74	<b>Irrigation:</b> Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem 2.5"	Rmt	1200	184
75	<b>Irrigation:</b> Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem 2"	Rmt	150	97
76	<b>1.5" Irrigation:</b> Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem	Rmt	1300	85
77	<b>1" Irrigation:</b> Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem	Rmt	100	55
78	<b>3/4" Irrigation:</b> Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem	Rmt	100	45
79	<b>1/2" Irrigation:</b> Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem	Rmt	200	35
80	PVC fittings Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem	Ls		
81	Earth work excavation and refilling 300x450mm Pipes Work: Supply, laying & commissioning in position PVC pipe-6 kg/cm <sup>2</sup> conforming to IS:4985:2000 and suitable for the respective working pressures without all fittings and accessories e.g. couplings, tees, bends, reducers, screwed adapters, flanged tail pieces etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. Finolex/supreem	Rmt	3050	70
82	<b>DRIP &amp; ACCESSORIES:</b> Supply, Fixing & Commissioning of flexible,kink resistant 16mm inline tubing ( XFD) with pressure compensating, self flushing mechanism , Flat emitter and resistance to UV damage, algae growth brown in colour, Longer lateral run length with flow rate 2.3lph to 3.4 lph, pressure rating 0.58 to 4.1 bar wall thickness 1.2mm etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Rmt	3648	45.00
83	<b>DRIP &amp; ACCESSORIES:</b> Supply, Fixing & Commissioning of flexible,kink resistant 16mm subsurface inline tubing ( XFSDI) and copper shield technology protects the root intrusion and self flushing emitter, brown in colour, UV damage and algae growth with flow rate of 3.4 lph pressure rating 0.58 to 4.14 bar with 100mm-150mm depth of earthwork etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Rmt	2888	65.00
84	<b>DRIP &amp; ACCESSORIES:</b> Supply,Fixing & commissioning of 1.5" Large Capacity Y Filters for submain filtration Have High Flow & Low Maintenance With a Solid Build,Maximum Flow Up to 110 gpm (25m <sup>3</sup> /hr), Maximum Pressure 116 psi (8 bar),Maximum Temperature Up to 140°F (60°C) etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	5	4000
85	<b>DRIP &amp; ACCESSORIES:</b> Supply,Fixing & commissioning of 1" Large Capacity Y Filters for submain filtration Have High Flow & Low Maintenance With a Solid Build,Maximum Flow Up to 110 gpm (25m <sup>3</sup> /hr), Maximum Pressure 116 psi (8 bar),Maximum Temperature Up to 140°F (60°C) etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	12	2500
86	Supply,Fixing & commissioning of 63mm/50mm/40mm dia self-closing flushing valves that are installed at the end of the irrigation line for effecting flushing of the line at the beginning of every irrigation cycle, thus avoiding the clogging of the emitters /sprinklers through removal of particles, sediments and other impurities from the water. etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	17	400
87	<b>DRIP &amp; ACCESSORIES:</b> Supply,Fixing & commissioning of 9 - Gauge Galvanized Steel Rod Comes Sharp tips provide easy insertion into all soil types, Staple Distribution Tubing , XF Drip Line or XBS Tubing to Finished Grade. Notched Sides. Corrosion -Resistant of TIE DOWN STAKE TDS 6050. etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	650	35
88	<b>DRIP &amp; ACCESSORIES</b> Supply,Fixing & commissioning of Gromatetake off Connects XF Series Drip Line and Blank Tubing to PVC Mainlines at Low Pressures. 17mm GTO etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	650	25
89	<b>DRIP &amp; ACCESSORIES</b> Supply,Fixing & commissioning of High Quality Barbs Grab Tubing for a Secure Fit. Unique Barb Design to Reduce Insertion Force. Non - Obtrusive Brown Colored Fittings of 17mm BARBX BARB TEE. etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	650	25
90	Supply,Fixing & commissioning of High Quality Barbs Grab Tubing for a Secure Fit. Unique Barb Design to Reduce Insertion Force. Non - Obtrusive Brown Colored Fittings of 17mm BARBX BARB COUPLING. etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	650	25
91	<b>DRIP &amp; ACCESSORIES:</b> Supply,Fixing & commissioning of High Quality Barbs Grab Tubing for a Secure Fit. Unique Barb Design to Reduce Insertion Force. Non - Obtrusive Brown Colored Fittings of 17mm BARBX BARB ELBOW. etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	650	22

92	<b>DRIP &amp; ACCESSORIES:</b> Supply,Fixing & commissioning of 17mm End cap S Type for dripline closure at the end of the dripline etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	nos	650	15
93	<b>DRIP &amp; ACCESSORIES:</b> Supply,Fixing & commissioning of PVC Single Union Ball Valve,security pivot to maintain lever in space,double water tight joint,direct injection stem, Stem O-Ring, non mechanical ,ball Seals with backing seals and a base which permits maximum penetration into the valve of size 50mm. with pressure rating PN 10 etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	5	1500

94	<b>DRIP &amp; ACCESSORIES</b> Supply,Fixing & commissioning of PVC Single Union Ball Valve,security pivot to maintain lever in space,double water tight joint,direct injection stem,Stem O-Ring, non mechanical ,ball Seals with backing seals and with a base which permits maximum penetration into the valve of size 40mm. with pressure rating PN 10 etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	12	1400
95	<b>DRIP &amp; ACCESSORIES</b> Supply,Fixing & commissioning of a double acting air and vaccum release 1/2 " Air release valve . The Air release valve shall be capable of both releasing and admitting air from and into the line. The working pressure shall be 5 bar. Only for Drip Irrigation etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	17	900
96	<b>DRIP &amp; ACCESSORIES</b> :Supply of a double acting air and vaccum release 2 " Air release valve . The Air release valve shall be capable of both releasing and admitting air from and into the line. The working pressure shall be 10 KSC etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.	Nos	8	1400
97	<b>DRIP &amp; ACCESSORIES</b> :Supply,Fixing & commissioning of 6"Round box with greenlid and corrugated structure with unique shovel access slot and bolt hole knockout & Having Dimensions @ Top Opening :6 1/8" Dia & Bottom Opening 8 5/8" Dia etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. PVB/VB	Nos	42	650
98	<b>DRIP &amp; ACCESSORIES</b> :Supply,Fixing & commissioning of 10" Round Valve Box with greenlid and corrugated structure with unique shovel access slot and bolt hole knockout & Having Dimensions @ Top Opening 10" Dia & Bottom Opening 12 13/16" Dia etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge.. PVB/VB	Nos	17	1700
99	<b>DRIP &amp; ACCESSORIES</b> :Supply,Fixing & commissioning of 18" Jumbo Rectangular Standard Valve Box with greenlid and corrugated structure with unique shovel access slot and bolt hole knockout & having Dimensions @ Top Opening:18 1/4" L X 13" W & bottom opening :21 1/4" L X 15 15/16"W X 12" H etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. PVB/VB	Nos	17	6600
100	<b>DRIP &amp; ACCESSORIES</b> :Supply,Fixing & commissioning of 3/4th Quick coupling valve made up of solid brass with locking cover corrosion resistant and stainless steel spring etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. 3RC	Nos	17	3600
101	<b>DRIP &amp; ACCESSORIES</b> :Supply,Fixing & commissioning of 3/4th Key threads into top of QCV to provide water access etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. 33DK	Nos	4	3000
102	<b>DRIP &amp; ACCESSORIES</b> :Supply,Fixing & commissioning of 3/4th Hose Swivel Made up of Solid Brass Swivels up to 360 degrees to allows hose to be pulled in any direction & Also to prevent Hose Damage etc., complete, as per the instructions of Architect/Landscape Architect/Engineer In Charge. SH-0	Nos	4	4000
103	<b>Automation Equipments</b> Supply,Fixing & Commissioning of Direct burial14 Awg x 2 Maxi cable with PVC insulated UL standard 493 with impregnated polyethene jacket and soft annealed tin coated copper conforming to ASTM B-33 for two way communication between decoder controller and decoders complete.	Rmt	1250	175.00
104	<b>Automation Equipments</b> :Supply,Fixing & Commissioning of PVC pipe 25mm-10 kg/cm <sup>2</sup> including fittings and accessories	Rmt	1250	60.00
105	<b>Automation Equipments</b> : Supply,Fixing & Commissioning of decoder control system outdoor rated, UV resistant,wall mount case, to support sensor decoder,turf decoders and line surgeprotectors (LSP) with options of program BACK UP AND RESTORE , cycle +soak,Raindelay,ET managers ,weather station, controlling upto 5 master valve(5water source)with diagnostic feature in wire shorttest ,voltage test at stations,ping test and with option to upgradable to IQ central control including , standard accessories complete ESP- LXD	Nos	1	1,05,000.00
106	<b>Automation Equipments</b> :Supply,Fixing & commissioning of 1" Solenoid globe angle inlet Valves with fabric reinforced Nitrile diaphragm Material and rugged PVC construction ,compatible and slow closing to prevent water hammer,pressure rating upto 10.4 KSC and maximum flow of 40GPM ,max water temp. upto 42degree centigrade, with 24AC solenoid,current rating 0.41A @60Hz,coil resistance 30ohm with provision to attach PRS-Dial PGA Pressure Regulation Optional PRS-D	Nos	12	2,750.00
107	<b>Automation Equipments</b> S: upply,Fixing & commissioning of 1.5" Solenoid globe angle inlet Valves with fabric reinforced Nitrile diaphragm Material and rugged PVC construction ,compatible and slow closing to prevent water hammer,pressure rating upto 10.4 KSC and maximum flow of 100GPM ,max water temp. upto 42degree centigrade, with 24AC solenoid,current rating 0.41A @60Hz,coil resistance 30ohm with provision to attach PRS-Dial PGA Pressure Regulation Optional PRS-D	Nos	5	6,000.00
108	<b>Automation Equipments</b> :Supply,Fixing & commissioning of 3" Solenoid globe Valves as central shut off valve with fabric reinforced diaphragm and rugged PVC construction ,compatible and slow closing to prevent water hammer,pressure rating upto 0,7 to 10 KSC and maximum flow of 10 to 100 m3/h ,max water temp. upto 60°C with 24 VAC - 50 Hz,coil resistance 30ohm with provision to attach PRS-Dial	Nos	1	25,000.00
109	<b>Automation Equipments</b> :Supply,Fixing & commissioning of PRS-DIAL to Maintain constant outlet pressure between 1.04 to6.9 KSC	Nos	17	3,200.00
110	<b>Automation Equipments</b> :Supply,Fixing & commissioning of direct bury -on wire connector,with strain relief ,UL486 D certified ,with waterproof silicon sealant ,fits wire from 22ga to6 ga as per specifications complete DBRY	Nos	102	150.00
111	<b>Automation Equipments</b> :Supply,Fixing & commissioning of automatic rain shut off device ,latching hinge with multiple rainfall settings 5mm to 20mm UL CUL listed and CE approved complete RSD BEX	Nos	1	5,000.00
112	<b>Automation Equipments</b> :Supply,Fixing & commissioning of Pump relay 24 AC PLA relay ,stabilizer 300watts	Nos	1	6,500.00
113	<b>Automation Equipments</b> :Submission of Shop drawing, As built drawing, Handing over documents, Training for maintenance team- 1 week after commissioning of the system and including Supervision, Transportation charges	Ls		



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