RAVI URBAN DEVELOPMENT AUTHORITY
UPGRADATION / REHABILITATION OF INFRASTRUCTURE DEVELOPMENT AT NATT VILLAGE
MAIN SUMMARY

Bill No	Description of Work	Amount in (Rs.)
1	Earthwork and Allied Activities	
2	Sub-Base & Base Course	
3	Surface Courses & Pavement	
4	Tuff Pavers & Ancillary Works	
5	Drainage works	
6	Construction of Dispensary (P.S)	
7	Rehabilitation of School (P.S)	
8	Rehabilitation of filteration plant & Tube well	
9	Electrical Works (Road/Street Lighting Network based on LED Road Lighting Fixtures)	
10	Entry Gate (P.S)	
11	Horticulture works (P.S)	
12	Waste management works (P.S)	
13	Pre-Cast Boundry Wall	
	TOTAL CONSTRUCTION COST	
	PST @ 5% of Construction Cost	
	TOTAL COST	

RAVI URBAN DEVELOPMENT AUTHORITY
NOT FOR USE OF BID SUBMISSION
RUDA

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 1	**Earthwork and Allied Activities**				
1	Jungle clearance and removing within 100 ft. (30 m) (Clearing and Grubbing)				
	a) Light	SM	1,336.00		
2	Compaction of earthwork with power road roller, including ploughing, mixing, moistening earth to optimum moisture content in layers, etc. complete:				
	i) 95% to 100% maximum modified AASHTO dry density.	CM	1,002.00		
3	Earthwork excavation undressed lead upto a single throw of Kassi, phaorah or shovel:-				
	b) In ordinary soil.	CM	912.00		
4	Transportation of surplus earth all types when the total distance, including the lead covered in the item of work, is more than 1000 ft. (300 m).	CM	912.00		
5	Making Embankment With Local earth in ordinary soil for embankments, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, including all lead and lift complete in all respects:-				
	i) With 95% to 100% Compaction of AASHTO dry density.	CM	353.00		
6	Making Embankment With Borrow in ordinary soil for embankments, including ploughing and mixing with blade grade or disc harrow or other suitable equipment, and compaction by mechanical means at optimum moisture content and dressing to designed section, including all lead and lift complete in all respects:-				
	With 95% to 100% Compaction of AASHTO dry density.	CM	4,071.00		
7	Providing and laying good quality / local sand cushion from approved source (compacted in layers not exceeding 6" thickness) by mechanized means including the cost of front end loader, viberatory roller and all lead and lifts,dressing,watering complete in all respect as approved and directed by the Engineer Incharge	CM	912.00		
TOTAL BILL No. 1					

RAVI URBAN DEVELOPMENT AUTHORITY
NOT FOR USE OF BID SUBMISSION
RUDA

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 2	**Sub-base & Base Course**				
1	Providing and laying Sub-Base course of crushed stone product of approved quality and grade at project site, including placing, mixing, spreading and compaction of sub-base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density(Including all Lead & Lift)				
	ii) Crushed stone aggregate	CM	1,096.00		
2	Providing and laying Base Course WBM (Sikhanwali) at project site of crushed stone product of approved quality and grade, including placing, mixing, spreading and compaction of base material to required depth, camber, grade to achieve 100% maximum modified AASHO dry density	CM	535.00		
TOTAL BILL No. 2					

RAVI URBAN DEVELOPMENT AUTHORITY
RUDA
NOT FOR USE OF BID SUBMISSION

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No.3	**Surface Courses & Pavement**				
1	Providing and laying bituminous priming coat, using 10 lbs. kerosene oil and 10 lbs. binder per 100 Sft. or 0.5 Kg kerosene and 0.5 Kg binder per square metre.	SM	3,564.00		
2	(Asphaltic Wearing Course) Providing and laying plant premixed bituminous carpet at project site, including compaction and finishing to required camber, grade and density with 4.5% Bitumen.	CM	178.00		
TOTAL BILL No. 3					

RAVI URBAN DEVELOPMENT AUTHORITY
RUDA
NOT FOR USE OF BID SUBMISSION

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 4	**Ancillary Works**				
1	Providing and laying Tuff pavers, having 7000 PSI, crushing strength of approved manufacturer, over 2" to 3" sand cushion i/c grouting with sand in joints i/c finishing to require slope . complete in all respect (50% Grey / 50% Coloured)				
	b) 60-mm thick	SM	8,976.00		
2	Painting Traffic Lanes 6" wide, (1.5 mm thick), with thermoplastic (TP) Paint including Glass Beads, complete in al respect. (6" wide)	LM	1,702.00		
3	Painting Arrows & Zebra crossings (1.5mm thick),with thermoplastic (TP) Paint including Glass Beads, complete in al respect.	SM	25.50		
4	Providing & fixing Cat Eyes of size 4" x 4" x 3/4" duly casted with specified material having plastic strip containing mini retro-reflective glass beads of color white/ red/ yellow having specifid reflections, quality & shape i/c the cost of self built in 12mm dia x 120mm long steel zinc plated nail, fixing to road with epoxy/ hammering with separate nail complete. a) Acrylic material Dual-Directional (ii) 19*2=38 Glass beads a side	Nos	729.00		
5	Providing & fixing Road Studs of aluminium alloy (raised profile) of specified size with Diamond grade reflectors on both sides etc complete. b) Dual- Directional (ii) 6" x 4" x 1.75"	Nos	150.00		
6	Brick on Edging	RM	1,461.00		
7	Providing, fabrication and fixing pole mounted Direction Board/ road delineator of any shape and size, with 3 mm thick Aluminium sheet, supported with G.I Channel, (excluding the cost of vertical post and painting) etc complete in all respect. (A) G.I Sheet 14 SWG **i) CIRCULAR/TRIANGULAR**				
	a) 3-4 ft size	SM	3.00		
8	Providing, fabrication and fixing pole mounted Direction Board/ road delineator of any shape and size, with 3 mm thick Aluminium sheet, supported with G.I Channel, (excluding the cost of vertical post and painting) etc. Complete in all respect. **ii) RECTANGULAR SHAPE**				
	(a) 12 -48 sft	SM	3.00		
9	If 3 mm thick Aluminium sheet is used,increase composite rate by Rs 630/- Psft or Rs 6778.80/- Per Sq.Mtr	SM	6.00		
10	Providing, fabrication and fixing Vertical Post comprising of medium quality G.I Pipe of specified diameter, including the cost of clamping arrangements, top cover, hold fasts embeded in PCC 1:2:4 etc. Complete in all respect.				
	3 inch diameter	M	10.00		
	4 inch diameter	M	5.00		

NOT FOR USE OF BID SUBMISSION

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
11	Lettering and printing of signage/ direction boards/ road delineators of any colour by machine i/c cost of Digital Lettering, Lamination & pasting etc. Complete in all respect. b) Diamond Grade Tape	SM	6.00		
TOTAL BILL No. 4					

RAVI URBAN DEVELOPMENT AUTHORITY
RUDA
NOT FOR USE OF BID SUBMISSION

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
Bill No. 5	**Drainage, Erosion Works & Culverts**				
1	Earthwork excavation in open cutting upto 5'-0" (1.5 m) to depth for storm water channels, drains, sullage drains in open areas, roads, streets, lanes, including under pinning of walls and shoring to protect existing works, shuttering and timbering the trenches, dressed to designed level and dimensions, trimming, removal of surface water from trenches, back filling and surplus excavated material disposed of and dressed within 50 ft. (15 m) lead:-				
	i) Ordinary Soil	CM	504.00		
2	Supplying and filling sand under floor; or plugging in wells.	CM	213.00		
3	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	CM	396.00		
4	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 2: 4	CM	172.00		
5	Pacca brick work other than building upto 10ft. (3 m) height. Ratio (1:3)	CM	1,046.00		
6	Cement plaster 1:3 upto 20' (6.00 m) height:- c) ¾" (20 mm) thick	SM	4,578.00		
7	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge.				
8	**(a)** Reinforced cement concrete in roof slab, beams, columns lintels, girders and other structural members laid in situ or precast laid in position, or prestressed members cast in situ, complete in all respectsinforcement, its fabrication and placing in position, etc.):-				
	(iv) 4000 PSI	CM	515.00		
9	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement. The rate includes wastage, overlaps and steel chairs, etc. complete in all respect (also includes removal of rust from bars):-				
	(c) Deformed bars (Grade-60)	Ton	82.40		
10	Providing, laying, cutting, jointing, testing and disinfecting pipe line in trenches with PVC/ uPVC pipes of B.S.S. with `D' Class working pressure complete in all respects:-				
	6" i/d (150 mm)	M	381.00		
11	Providing and fixing 6" thick R.C.C. manhole cover with tee shaped C.I. frame of 22" I/d (frame weighing 37.324 Kg. or one maund as per Standard Drawing STD/PD No. 6, of 1977, complete in all respect.	Set	193.00		

NOT FOR THE PURPOSE OF BID SUBMISSION

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate (Rs.)	Amount (Rs.)
12	Desilting including disposal of sludge upto one Chain (30 Meters). b) Covered Drain	CM	523.00		
TOTAL BILL No. 5					

RAVI URBAN DEVELOPMENT AUTHORITY
RUDA
NOT FOR USE OF BID SUBMISSION

RAVI URBAN DEVELOPMENT AUTHORITY

UPGRADATION / REHABILITATION OF INFRASTRUCTURE DEVELOPMENT AT NATT VILLAGE

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
Bill No. 6	Construction of Dispensary (P.S)				
		P.S	1.00		29,200,000.00
TOTAL COST					**29,200,000.00**
Bill No. 7	Rehabilitation of School (P.S)				
		P.S	1.00		7,200,000.00
TOTAL COST					**7,200,000.00**
Bill No. 8	Rehabilitation of filteration plant & Tube well				
		P.S	1.00		9,000,000.00
TOTAL COST					**9,000,000.00**
Bill No. 9	Electrical Works (Road/Street Lighting Network based on LED Road Lighting Fixtures)				
		P.S	1.00		6,000,000.00
TOTAL COST					**6,000,000.00**
Bill No. 10	Entry Gate (P.S)				
		P.S	1.00		8,000,000.00
TOTAL COST					**8,000,000.00**
Bill No. 11	Horticulture works (P.S)				
		P.S	1.00		1,000,000.00
TOTAL COST					**1,000,000.00**
Bill No. 12	Waste management works (P.S)				
		P.S	1.00		2,000,000.00
TOTAL COST					**2,000,000.00**

NOT FOR USE OF BID SUBMISSION
RUDA

RAVI URBAN DEVELOPMENT AUTHORITY

UPGRADATION / REHABILITATION OF INFRASTRUCTURE DEVELOPMENT AT NATT VILLAGE

BILL OF QUANTITIES

Sr. No.	Item Description	Unit	Quantity	Rate	Amount (Rs.)
Bill No. 13	**BOUNDRY WALL**				
1	Excavation in foundation of building, bridges and other structures, including dagbelling, dressing, refilling around structure with excavated earth, watering and ramming lead upto one chain (30 m) and lift upto 5 ft. (1.5 m) b) By Excavator b) in ordinary soil.	CM	65.55		
2	Cement concrete plain including placing compacting, finishing and curing complete (including screening and washing of stone aggregate): (i) Ratio 1: 4: 8	CM	5.46		
3	Placing, compacting, finishing and curing of concrete using Ordinary Portland Cement / Sulphate resisting cement / Slag cement as may be required; including screening, washing of aggregates and mixing of constituents using batching plant, Transportation by transit mixer, pouring with pump in the required proportions to achieve a nominal cylindrical strength in the field as per ACI 214, with the specified consistency. i/c the cost of shuttering, compaction with Viberator, excluding the cost of Admixture, as approved and directed by the Engineer Incharge..				
	(c) Substructure (Foundations, Raft, Strip and Footing Beams) (vi) 3000 PSI	CM	56.19		
4	Fabrication of mild steel reinforcement for cement concrete including cutting, bending, laying in position, making joints and fastenings including cost of binding wire and labour charges for binding of steel reinforcement (also includes removal of rust from bars):-				
	(c) Deformed bars (Grade-60)	Ton	5.06		
5	Providing and Fixing of Precast Boundary wall with H type vertical precast column (6" x 6-1/2" x 10'-6") and Precast planks (2" x 12" x 8') embaded in concete foundation with column canopy fot clear height 8' of wall etc complete in all respect.				
		RM	152.00		
6	Supplying and filing sand under floor or plugging well	CM	43.70		
7	Bitumen coating to plaster or cement concrete surface, 20 lbs/100 sft	SM	204.30		
TOTAL COST					

NOT FOR USE OF BID SUBMISSION