

Development of Mini Sports Complex at Shiv Nagar, Jabalpur (M.P.)		
SUMMARY SHEET		
Sr No.	Item Description	AMOUNT
1	JOGGERS TRACK	2256656.67
2	BASKET BALL COURT	1852421.31
3	VOLLEY BALL COURT	1039291.10
4	BOUNDARY WALL	4686476.24
5	LANDSCAPE	1404594.00
6	GYMNASIUM and BEDMINTON BUILDING	26933836.90
	TOTAL CIVIL WORKS	38173276.22
10	ELECTRICITY & OTHER ALLIED WORKS @ 10%	3817327.62
	Total	41990603.84

ESTIMATE OF JOGGERS TRACK

SN		DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT
1		2	3	4	5	6	7
1		Surface dressing of the ground including removing vegetation and in-equalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m. All kinds of soil.	1117.50	100 Sqm	663.00	596.70	6668.12
2		Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	335.25	Cum	530.00	477.00	159914.25
		Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	47.00	Cum	2715.00	2443.50	114844.50
	Vol III 5.15	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 100°C, protruding 1 mm to 4 mm over mastic surface complete in all respect and as per relevant clauses of section-515.	476.00	SqM	503.00	452.70	215485.20
3	11.49	Providing and laying at or near ground level factory made kerb stone of M- 25 grade cement 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).	40.00	CuM	5098.00	4588.20	183528.00
	NON SOR	Providing and finxing ready made matt of sythetic rubberised material 7 to 8 mm thick for Jogging area	476.00	SqM	2540.00	2540.00	1209040.00
4		Providing and fixing peddler light@3.00 c/c (NON SOR Item)	106.25	No.	350.00	315.00	33468.75
5		Providing and fixing G.I. chain link fabric fencing of required width in mesh size 25x25mm made of G.I.wire of dia.3mm including strengthening with 3mm dia.wire or nuts,bolts and washers as required complete as per the direction of Engineer-in-charge.	670.50	Sqm	553.00	497.70	333707.85
		Total					2256656.67

BASKET BALL COURT							
SN		DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT
1		2	3	4	5	6	7
1	4.1	Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory roller to achieve the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	272.30	Cum	614.00	552.60	150470.22
2	Vol III 6.1	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	90.72	Cum	2715.00	2443.50	221674.32
3	Vol III 5.15	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface complete in all respect and as per relevant clauses of section-515	136.08	Cum	4044.00	3639.60	495276.77
4	Non Sor	Supply and installation of Bergo Multi-sports Interlocking modular PP tiles or equivalent having material composition of environmentally friendly recyclable UVstabilized 100% polypropylene with ISO2076 standards. Each tile should have thickness of 14.1mm (EN 428 standards), size of 303.3mm*303.3mm (EN427 standards), weight of 0.356kg (EN 430 standards), slip resistance of 108 PTV (EN13036-4), Impact resistance of 20kJ/sqm, shock absorption of 6% (EN14808), vertical deformation of 0.3mm (EN14809), vertical ball behavior of 98% (EN12235), resistance to wear of 0.1g/1000cycles (EN ISO-54701). The flooring work should have material defects warranty of 10 years.	500.00	m.sq	1670.00	1670.00	835000.00
5	Non SOR	Providing and fixing net postFixed Basketball Court- Providing fixed basketball outdoor posts with 3.2 mtr. umbrella projection with 200 mm square mild steel pipe powder coated of approved make with front side safety padding of 5.5" thick foam blue colour and 23 mm transparent outdoor acrylic board 180x105x 25 mm of approved make with international standard double die frame aluminium anodized/steel powder coated with built in Pair 196950.00 brackets for mounting including dunking rim solid 20mm thick with three spring mechanism box packing of approved make with nets of regulation size 45 cm, cup shape of heavy duty nylon silky mix white coloured cord. (The cost of earthwork, concrete, labour for installation of the posts to be included in the rate). Including Marking the required lines as per specifications of Sports Authority of India	2.00	No	75000.00	75000.00	150000.00
Total							1852421.31

CONSTRUCTION OF VOLLEY BALL COURT including buffer zone 34 x 19 M							
SN		DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT
1		2	3	4	5	6	7
1	Vol III 4.1	Construction of Granular Sub-base by providing coarse graded material, spreading in uniform layers with on prepared surface, mixing by in placed method at OMC, and compacting with vibratory roller to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	323.00	Cum	614.00	552.60	178489.80
2	6.1	Construction of dry lean cement concrete Sub-base over a prepared sub-grade with coarse and fine aggregate conforming to IS: 383, the size of coarse aggregate not exceeding 25mm, aggregate cement ratio not to exceed 15:1, aggregate gradation after blending to be as per table of MORTH Specifications 600-1, cement content not to be less than 200 kg/cum, optimum moisture content to be determined during trial length construction, concrete strength not to be less than 10 Mpa at 7 days, mixed in a batching plant, transported to site, laid with paver with electronic sensor/mechanical paver, compacting with 8-10 tonnes vibratory roller, finishing and curing and as per relevant clauses of section-603.	64.60	Cum	2715.00	2443.50	157850.10
3	5.15	Providing and laying 25 mm thick mastic asphalt wearing course with paving grade bitumen meeting the requirements given in table 500-29, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including providing antiskid surface with bitumen precoated fine-grained hard stone chipping of 13.2 mm nominal size at the rate of 0.005cum per 10 sqm and at an approximate spacing of 10 cm center to center in both directions, pressed into surface when the temperature of surfaces not less than 1000C, protruding 1 mm to 4 mm over mastic surface complete in all respect and as per relevant clauses of section-515	646.00	SqM	503.00	452.70	292444.20
4	NoN SOR	Supply and installation of Bergo Multi-sports Interlocking modular PP tiles or equivalent having material composition of environmentally friendly recyclable UVstabilized 100% polypropylene with ISO2076 standards. Each tile should have thickness of 14.1mm (EN 428 standards), size of 303.3mm*303.3mm (EN427 standards), weight of 0.356kg (EN 430 standards), slip resistance of 108 PTV (EN13036-4), Impact resistance of 20kJ/sqm, shock absorption of 6% (EN14808), vertical deformation of 0.3mm (EN14809), vertical ball behavior of 98% (EN12235), resistance to wear of 0.1g/1000cycles (EN ISO-54701). The flooring work should have material defects warranty of 10 years.	150.00	SqM	1670.00	1670.00	250500.00
5	NoN SOR	Supply & Installation of Volleyball Poles with Net including the Marking the required lines as per specifications of Sports Authority of India	1.00	No	160000.00	160000.00	160000.00
		Total					1039291.10

ESTIMATE OF BOUNDARY WALL

S. No	SOR Item No.	Item of Work	Measurement	Quantity	Unit	10% Reduced Rate as per UADD Orders	Reduced Amount in Rs.
			No.				
	Excavation						
	2.8.1, Vol. 2, Pg 16	Earth work in excavation by mechanical means (Hydraulic avator) / manual means in foundation enches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus xcavated soil as directed, within a lead of 50 m2.8.1 All kinds of soil					
		For pile cap, (.65 x .65 x .35 m)	152.00	82.37			
				82.37	CuM	116.10	9562.58
	Concrete						
	4.1.2, Vol. 2, Pg 34	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work up to plinth level					
		4.1.2 Cement concrete grade M-15 with 20 mm max.size of stone agg.					
		For pile cap Base	152.00	10.98			
		Total		10.98	CuM	3738.60	41057.31
	16.9, Vol. 2, Pg 187	Boring, providing and installing bored cast-in-situ reinforced cement concrete pile of specified diameter and length below the pile cap M 20 in cement concrete, to carry a safe working load not less than specified, excluding the cost of steel reinforcement but including the cost of boring with, bentonite solution and temporary casing of appropriate length for setting out and removal of same and the length of the pile to be embedded in the pile cap etc. all complete, including removal of excavated earth with all lifts and leads (Length of pile for payment shall be measured upto bottom of pile cap).					
		(16.9.1) 300 mm dia piles	152.00	760.00			
		Total		760.00	Rm	1048.50	796860.00
	5.1, Vol. 2, Pg 46	Providing and laying in position specified grade of reinforced cement concrete excluding the cost of centering, shuttering, finishing and reinforcement - All work up to plinth level : 5.1.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.					
		Pile Cap	152.00	22.48			
		Column	152.00	3.99			
		Total		26.47	Cum	4255.20	112622.38
	5.2.1, Vol. 2, Pg 46	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. up to floor two level excluding cost of centering, shuttering, finishing and reinfor cement 5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate					
		Plinth beam					
		Boundry wall Periphery beam	152.00	31.46			
		Column above plinth	152.00	33.52			
		Total		64.98	Cum	4545.00	295334.10
	Reinforcement						
	5.20.6, Vol. 2, Pg 49	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding including cost of binding wire upto floor two level including all wastage etc. complete.					
		5.20.6 Thermo-Mechanically Treated bars.					
		Reinforcement for R.C.C. work @75kg/cum of column concrete	53.69	4027.05			
		Reinforcement for R.C.C. work @160kg/cum of foundation concrete	22.48	3596.32			
		Reinforcement for R.C.C. work @120kg/cum of column concrete	3.99	478.80			

		Reinforcement for R.C.C. work @120kg/cum of column concrete	33.52	4021.92			
		Reinforcement for R.C.C. work @100kg/cum of beam concrete	31.46	3146.40			
		Total		15270.49	Kg	54.00	824606.46
		Back Filling & Water Proofing					
	2.25, Vol. 2, Pg 19	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.					
		For foundation (volume of earth from excavation item)	1.00	82.37			
		Deduction for foundation concrete (volume from concrete item above)	-1.00	-37.45			
		Total		44.92	CuM	53.10	2385.04
	4.10. Vol. 2, Pg 36	Providing and laying damp-proof course 50mm thick with cement concrete grade M-15 (Nominal Mix) with 20 mm maximum size of stone aggregate					
		Boundry wall Periphery beam	152.00	96.84			
		Total		96.84	Sqm	203.40	19697.09
	4.11. Vol. 2, Pg 36	Extra for providing and mixing water proofing material in cement concrete work @ 1 kg per 50kg of cement.					
		in concrete upto plinth Measurement as above)		786.47			
		in concrete upto plinth measurement as above) Peripheri Beam		31.46			
		DPC (5% of Beam)		4.84			
		Volume of Concrete		822.77			
		Nos of Bag@410 kg or 8.2bags per cum			Per 50 kg cement		
				6746.74		54.90	370395.93
		Centering & Shuttering					
	20.1.1, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for					
		20.1.1 Foundations, footings, bases of columns, etc. For mass concrete.					
		PILE CAP	152.00	136.19			
		Total		136.19	Sqm	124.20	16915.05
	20.1.6, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for Columns, Pillars, Piers, Abutments, Posts, Struts.					
		Column	152.00	49.40			
		Column above plinth	152.00	414.96			
		Total		414.96	Sqm	253.80	105316.85
	20.1.5, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for					
		20.1.5 Lintels, beams, plinth beams, girders, bressumers and cantilevers.					
		Beam					
		Boundry wall Periphery beam	152.00	378.48			
		Total		378.48	Sqm	182.70	69148.30
		Brick Work					
	6.38, Vol. 2, Pg 62	Brick work with well burnt open bhatta bricks crushing strength not less than 25kg/cm² and water absoption not more than 20% in foundation and plinth In cement mortar 1:4.					
		Boundry wall (each unit length for brick = 2.77m side)	152.00	54.23			
		Total		54.23	CuM	2822.40	153058.62
		Cement Plaster					
	13.11, Vol. 2, Pg 157	18 mm cement plaster in two coats under layer 12 mm thick cement plaster 1:5 (1 cement: 5 coarse sand) finished with a top layer 6 mm thick cement plaster 1:6 (1 cement: 6 fine sand).					
		On Vertical faces in following araes					
		Boundry wall (each unit length for brick = 2.77m side)	152.00	724.19			
		Column sides	152.00	414.96			
		Total		1139.15	Sqm	134.10	152759.85
		Stone Work					

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ESTIMATE OF LANDSCAPE							
S.No	Item No. / SOR Vol	PARTICULARS	Quantity	UNIT	Rate (in Rs)	Reduced Rate As per Order	Amount
1	23.1 MP PWD SOR	Trenching in ordinary soil up to a depth of 60cm including removal and stacking of serviceable materials and then disposing of surplus soil, by spreading and neatly leveling within a lead of 50m and making up the trenchcd area to proper levels by filling with earth or earth mixed with sludge or/and manure before and after flooding trench with water (excluding cost of imported earth, sludge or manure)					
			1000.00	cum	207.00	186.30	186300.00
2	23.2 MP PWD SOR	Supplying and stacking of good earth at site including royalty if any and carnage (earth measured in stacks will be reduced by 20% for payment)					
			500.00	cum	568.00	511.20	255600.00
3	23.3 MP PWD SOR	Supplying and stacking sludge at site including royalty and carriage (sludge measured in stacks will be reduced b 8% for payment)					
			300.00	cum	715.00	643.50	193050.00
4	23.4 MP PWD SOR	Supplying and stackmg at site dump manure from approved source, including carriage (manure measured in stacks will be reduced by 8% for payment):					
			300.00	cum	816.00	734.40	220320.00
5	23.5 MP PWD SOR	Rough dressing the trenched ground including breaking clods.					
			1000.00	100 sqm	495.00	445.50	4455.00
6	23.6 MP PWD SOR	Uprooting weeds from the trenched area after 10 to 15 days of its flooding with water including disposal of uprooted vegetation.					
			1500.00	100 sqm	168.00	151.20	2268.00
7	23.7 MP PWD SOR	Fine dressing the ground					
			1500.00	100 sqm	126.00	113.40	1701.00
8	23.8 MP PWD SOR	Spreading of sludge, dump manure and / or good earth in required thickness as per direction of Officer-in-charge (Cost of sludge, dump manure and /or good earth to be paid separately).					
			300.00	cum	18.00	16.20	4860.00
9	23.9 MP PWD SOR	Mixing earth and sludge or manure in the required proportion specified or directed by the Officer-in-charge					
		Adding the quantity of earth and sludge manure	1100.00	cum	12.00	10.80	11880.00
10	23.1 MP PWD SOR	Grassing with selected type of grass including watering and maintenance of the lawn for 30 days or more till the grass forms a thick lawn, free from weeds and fit for mowing including supplying good earth. if needed (the good earth shall be paid for separately):					
	23.10.3	In rows 5 cm apart in both directions.	1500.00	100 sqm	4002.00	3601.80	54027.00

11	23.13 MP PWD SOR	Preparation of beds for hedging and shrubbery excavating further 30cm deep of already prepared trench, refilling the excavated earth after breaking clods and mixing with sludge or manure in the ratio of 8:1 (8 parts of stacked volume of earth after reduction by 20% : one part of stacked volume of sludge or manure after reduction by 8%), flooding with water, filling with earth if necessary, watering and finally fine dressing, levelling etc. including stacking and disposal of materials declared unserviceable and surplus earth by spreading and levelling as directed, within a lead of 50m lift upto 1.5 m complete (cost of sludge, manure or extra earth to be paid for separately)					
			80.00	cum	75.00	67.50	5400.00
12	23.14	Digging holes in ordinary soil and refilling the same with the excavated earth mixed with manure or sludge in the ratio of 2:1 by volume (2 parts of stacked volume of earth after reduction by 20%: 1 part of stacked ' volume of manure after reduction by 8%) flooding with water, dressing including removal of rubbish and surplus earth. if any with all leads and lifts (cost of manure, sludge or extra good earth if needed to be paid for separately):					
	23.14.2	Holes 60 cm dia, and 60 cm deep.	50.00	each	68.00	61.20	3060.00
	23.14.3	holes 45 cm dia, and 45 cm deep.	100.00	each	21.00	18.90	1890.00
13	23.15 MP PWD SOR	Providing and planting different variety of plants of approved quality and sizes as mentioned including making pits of required size at site, refilled with B.C. Soil mixture manuring and pesticide etc complete (to be paid separately) including watering and 90 days maintenance from the date of final bill as per direction of engineer in charge complete in all respect (B.C Mixture paid separately).					
	23.15.1	Any of one from Plameriya alba, fycus benjameena. Malkikeya champa. Begnonia plumaric pudoca Plants or Equivalent (1.8 mtrs to 2.10 mtrs height.	300.00	each	645.00	580.50	174150.00
	23.15.2	Any of one from Lantana VAR Red, Lantana Blue White, Hemelia Mini. lantana varicated, ticoma Redicens, Spi Oala, Golden Dunanta or Equivalent. (height 0.3 m to 0.45m)	750.00	each	33.00	29.70	22275.00
	23.15.3	Any of one from Hibiscus Vice Rai, Gul Phinia. Bamboo Varicated. Chandani Vencated, Hamilia Pattern, Bouganvella. Canna Red/Yellow, Taqwamonasia or Equivalent. (height 0.3 m to 0.45 m)	75.00	each	54.00	48.60	3645.00
	23.15.4	Any Of one from Spathodia. Silver Oak, Thuja. Golden Bottle Brush, Exora Red or Equivalent (height 0.45 m to 0.60 m)	50.00	each	319.00	287.10	14355.00
	23.15.5	Any Of one from Glerodendron, Allamamala New, Allamanda Bail, Thima Bouganvella or Equivalent	100.00	each	96.00	86.40	8640.00
	23.15.7	Foxtail Palm or Equivalent (1.80mtrs to 2.10mtrs Height)	50.00	each	1784.00	1605.60	80280.00
	23.15.9	Ficus Varicated or Equivalent (1.80mtrs to 2.10 mtrs height)	100.00	each	994.00	894.60	89460.00
15	23.24 MP PWD SOR	Preparation of mounds of various size and shape by available excavated /supplied earth in layers not exceeding 20 cm in depth, breaking clods, watering of each layer, dressing etc lead upto 50 meter and lift upto 1.5 m complete as per direction Of Officer-in-charge .	100.00	cum	153.00	137.70	13770.00

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