

Development of Mini Sports Complex at Foota Taal, Jabalpur (M.P.)**SUMMARY SHEET**

Sr No.	Item Description	AMOUNT
1	JOGGERS TRACK	20,11,839.37
2	BASKET BALL COURT	18,48,713.62
3	VOLLEY BALL COURT	17,71,242.10
4	BOUNDARY WALL	35,31,325.54
5	LANDSCAPE	11,02,270.50
6	GYMNASIUM and BADMINTON BUILDING	2,80,35,031.00
	TOTAL CIVIL WORKS	3,83,00,422.14
10	ELECTRICITY & OTHER ALLIED WORKS @ 10%	38,30,042.21
	Total	4,21,30,464.35

ESTIMATE OF JOGGERS TRACK

SN	SOR item	DESCRIPTIONS	QTY	UNIT	RATE	Reduced Rate as per Order	AMOUNT
1		2	3	4	5	6	7
1	2.28.1 UADD	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	4.1 UADD	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	335.25	Cum	600.00	540.00	181035.00
3	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.	47.00	Cum	2715.00	2443.50	114844.50
4	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
5	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.	350.00	SqM	503.00	452.70	158445.00

6	NON SOR	Supply and installation of Play flex EPDM rubberized flooring in insitu form with top layer of 6mm 100% EPDM (Ethylene Propylene Diemonomer) and bottom layer of 9mm Styrene-Butadiene Rubber (SBR). The EPDM granules ranging from 1mm to 4mm should have granules distribution such as <1mm – 2%, <2mm ->1mm – 10-20%, <3mm- >2mm – 30- 40%, <4mm- >3mm – 38-48% >4mm – 3%. The EPDM granules should have specific gravity – 1.5+/-0.0, Hardness (Shore A) – 62-67, Density – 700-730 kg/cu.mtr, Tensile strength > 4.0 MPa, Elongation @ BREAK > 400% and curing system – Peroxide cured. The SBR granules should be primarily in the range of 1- 4mm size and to be used primarily to create cushion effect. PU binder quality should be from company like BASF for insitu application to be done. The flooring work should have material defects warranty of 3 years.	350.00	SqM		3100.00	1085000.00
7		Providing and fixing peddler light@3.00 c/c (NON SOR Item)	106.25	No.	350.00	315.00	33468.75
8		Providing and fixing G.I. chain link fabric fencing of required width in mesh size25x25mm 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.	500.00	Sqm	553.00	497.70	248850.00
		Total					2011839.37

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 rolar to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	272.30	Cum	600.00	540.00	147039.30
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	Non Sor	Supply and installation of Suspended structure Interlocking modular all weather non toxic Poly Proplene tiles having minimal maintence, ecofriendly, 100% recyclable material. Each tile should have thickness of 15.8mm, shock absorption 28%, weight not less than 3.82 kg per sqm provided with side edges. Size of tile 304.8mm X 304.8mm.	500.00	m.sq	2660.00	2660.00	1330000.00
4	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					1848713.62

CONSTRUCTION OF VOLLEY BALL COURT

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 rollar to achive the desired density, complete in all respect and as per relevant clauses of section-400. For grade III Material	323.00	Cum	600.00	540.00	174420.00
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	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.	360.00	SqM	503.00	452.70	162972.00
4	NON SOR	Supply and installation of Play flex EPDM rubberized flooring in insitu form with top layer of 6mm 100% EPDM (Ethylene Propylene Diemonomer) and bottom layer of 9mm Styrene-Butadiene Rubber (SBR). The EPDM granules ranging from 1mm to 4mm should have granules distribution such as <1mm – 2%, <2mm ->1mm – 10-20%, <3mm->2mm – 30-40%, <4mm->3mm – 38-48% >4mm – 3%. The EPDM granules should have specific gravity – 1.5+/-0.0, Hardness (Shore A) – 62-67, Density – 700-730 kg/cu.mtr, Tensile strength > 4.0 MPa, Elongation @ BREAK > 400% and curing system – Peroxide cured. The SBR granules should be primarily in the range of 1- 4mm size and to be used primarily to create cushion effect. PU binder quality should be from company like BASF for insitu application to be done. The flooring work should have material defects warranty of 3 years.	360.00	SqM	3230.00	3100.00	1116000.00
4	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					1771242.10

ESTIMATE OF BOUNDARY WALL

S. No	SOR Item No.	Item of Work	Quantity	Unit	10% Reduced Rate as per UADD Orders	Reduced Amount in Rs.
Excavation						
1	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 m.2.8.1 All kinds of soil				
		For pile cap, (.65 x .65 x .35 m)	82.37			
			82.37	CuM	116.10	9562.58
Concrete						
2	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	10.98			
		Total	10.98	CuM	3738.60	41057.31
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).						
3	16.9, Vol. 2, Pg 187					
		(16.9.1) 300 mm dia piles	760.00			
		Total	760.00	Rm	1048.50	796860.00
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 :						
4	5.1, Vol. 2, Pg 46	5.1.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate.				
		Pile Cap	22.48			
		Column	3.99			
		Total	26.47	Cum	4255.20	112622.38
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	5.2.1, Vol. 2, Pg 46	5.2.1 Cement concrete grade M-20 (Nominal Mix) with 20 mm maximum size of stone aggregate				
		Plinth beam				
		Boundry wall Periphery beam	31.46			
		Column above plinth	33.52			
		Total	64.98	Cum	4545.00	295334.10
Reinforcement						
6	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	4027.05			
		Reinforcement for R.C.C. work @160kg/cum of foundation concrete	3596.32			
		Reinforcement for R.C.C. work @120kg/cum of column concrete	478.80			
		Reinforcement for R.C.C. work @120kg/cum of column concrete	4021.92			
		Reinforcement for R.C.C. work @100kg/cum of beam concrete	3146.40			
		Total	15270.49	Kg	54.00	824606.46
Back Filling & Water Proofing						
7	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)	82.37			
		Deduction for foundation concrete (volume from concrete item above)	-37.45			
		Total	44.92	CuM	53.10	2385.04
8	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	96.84			
		Total	96.84	Sqm	203.40	19697.09
9	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	6746.74	Per 50 kg cement	54.90	370395.93
Centering & Shuttering						
10	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	136.19			
		Total	136.19	Sqm	124.20	16915.05
11	20.1.6, Vol. 2, Pg 209	Centering & shuttering propping and removal of form for Columns, Pillars, Piers, Abutments, Posts, Struts.				
		Column	49.40			
		Column above plinth	414.96			
		Total	414.96	Sqm	253.80	105316.85
12	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	378.48			
		Total	378.48	Sqm	182.70	69148.30
Brick Work						
13	6.27.2 UADD	Brick work with modular fly ash lime bricks (FALG Bricks) conforming to IS:12894-2002, class designation 100 average compressive strength in superstructure above plinth level up to floor 2 level including the cost of scaffolding : Cement mortar 1:6 (1 cement : 6 coarse sand)				
		Boundry wall (each unit length for brick = 2.77m side)	54.23			
		Total	54.23	CuM	3546.90	192348.22

Cement Plaster					
14	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)	724.19		
		Column sides	414.96		
		Total	1139.15	Sqm	134.10
					152759.85
Stone Work					
15	11.29 Vol.2, Pg 130	40 mm thick fine dressed stone flooring over 20 mm (average) thick base of cement mortar 1:5 (1 cement : 5 coarse sand) including pointing with cement mortar 1:2 (1 cement : 2 stone dust) with an admixture of pigment to match the shade of stone. (minimum size of kota stone 0.25 m)			
		Boundry wall top	138.94		
		Boundry wall column top	27.36		
		Total	166.30	SqM	429.30
					71393.96
16	10.25 Vol. 2, Pg 116	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.			
		10.25.2 In gratings, frames, guard bar, ladder, railings, brackets, gates and similar works.			
		Gate No-1,2 &3			
		Gate (area 5.814 sqm)	17.44		
		Total (sqm)	17.44		
		(A)Weight (37.9 kg per Sqm, as per design)	661.01	Kg	60.30
					39858.68
17	10.26 Vol 2 Pg 117	Providing and fixing Railing of approved size by welding etc. To steel ladder railing balcony railing staircase railing and similar works, including applying a priming coat of approved steel primer			
		10.26.1 MS Tube, Boundry wall work three square hollow tubes at top 50 X50 mm size	520.37		
		Total (sqm)	520.37		
		(B) Weight (4.34 kg per Rm, total 3 rows at top	2214.00	Kg	75.60
					167378.40
Painting					
18	13.48.3 Vol. 2, Pg 162	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @0.90 ltr/10 sqm over an under coat of primer applied @ 0.80 ltr/ 10 sqm of approved brand or manufacture			
		Measurement as above			
		Grill as above	520.37		
		Gate (Area -5.814 sqm)	17.44		
		Total	537.81	sqm	58.50
					31461.93
19	13.26 Vol. 2, Pg 159	Providing and applying 1.5 mm thick (in two coat) white cement based wall putty of best quality, over plastered surface to prepare the surface even and smooth complete.			
		Quantity as above in Plaster (External)	1139.15	SqM	73.80
					84069.18
20	13.45. Vol. 2, Pg 161	Finishing walls with textured exterior paint of required shade :			
		New work (Two or more coats applied @ 3.28 ltr/10 sqm) over and including base coat of water proofing cement paint applied @ 2.20kg/10 sqm.			
		Quantity as above in External Plaster	1139.15	SqM	112.50
					128154.24
TOTAL					3531325.54

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 trcnchcd area to propr 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)	900.00	cum	207.00	186.30	167670.00
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)	300.00	cum	568.00	511.20	153360.00
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.	1500.00	100 sqm	495.00	445.50	6682.50
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).	180.00	cum	18.00	16.20	2916.00
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	500.00	cum	12.00	10.80	5400.00
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):	1500.00	100 sqm	4002.00	3601.80	54027.00
	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.	50.00	each	645.00	580.50	29025.00
	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)	600.00	each	33.00	29.70	17820.00
	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)	60.00	each	1784.00	1605.60	96336.00
	23.15.9	Ficus Varicated or Equivalent (1.80mtrs to 2.10 mtrs height)	50.00	each	994.00	894.60	44730.00

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
16	23.25 MP PWD SOR	Providing Circular Cement Concrete pots of specificd size, cast with cement concrete of nominal mix 1:2:4 (1 cement: 2 sand; 4 graded stone aggregate 6 mm nominal size), reinforced With 7 Nos (3 nos. horizontal and 4 nos. vertical "U" shape) M.S. wires of 3.5 mm dia as per design, including required form work, finishing with cement punning on exposed Surface, Curing for specified period and stacking in required rows and height, all complete as per direction of Officer-in-charge .					
	23.25.1	Top inside dia 35 cm, outer bottom dia 25 cm, total height 35 cm with wall thickness of 25.4 mm.	175.00	each	152.00	136.80	23940.00
17	17.4	Drilling of perfectly vertical bore hole of a diameter suitable to receive 150mm nominal diameter casing pipe upto desired depth below ground level inclusive of the labour charges for transporting, lowering and fixing of 150mm nominal diameter M,S./G.I./U.P.V.C. casing pipe inside the bore hole including all works pertaining to drilling such as transportation, installation and removal of drilling machine etc. complete.					
	17.4.1	in all types of collapsible strata consisting of soils, clays, sand, moorum, gravel, boulders etc.	75.00	mtr	335.00	301.50	22612.50
	17.4.2	in all types of rocks.	25.00	mtr	429.00	386.10	9652.50
TOTAL							1102270.50

CONSTRUCTION OF INDOOR SPORTS BUILDING AT Foota Taal, JABALPUR

ABSTRACT			
S. No	SUBHEAD	Description	Amount
1.0	I	CIVIL WORKS (UADSR)	4837057
2.0	II	CIVIL WORKS (NON SR)	5434425
3.0	III	CIVIL WORKS (DSR)	3817250
4.0	IV	PRE -FAB ENGINEERED STRUCTURE FABRICATION NON SR	6149098
5.0	V	PRE -FAB ENGINEERED MPSR	7197201
6.0	VI	Other ITEMS OF SITE DEVELOPMENT AND SPORTS UTILITY	600000
TOTAL			28035031

CONSTRUCTION OF INDOOR SPORTS COMPLEX AT FOOTA TAAL, JABALPUR,JSCL

SUBHEAD - I : CIVIL WORKS (UADSR)						
Sr. No.	UADD SR 2012 Ref.	Description	Unit	Qty	UADD Rate	Amount
		EARTH WORK EXCAVATION				
1.0	Item 2.8	Earthwork in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10sqm 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 excavated soil as directed, within a lead of 50m.				
	2.8.1	All kinds of soil.	Cum	560.00	116.10	65016
2.0	Item 2.11	Extra for excavating trenches for pipes, cables etc. in all kinds of soil for depth exceeding 1.5 m, but not exceeding 3 m. (Rate is over corresponding basic item for depth upto 1.5 metre).	Cum	130.00	137.80	17914
3.0	Item 2.25	Filling 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	Cum	1573.00	53.10	83526
4.0	Item 2.27	Supply and Filling in plinth and under floors includeing watering ramming consolidating and dressing complete with				
	2.27.1	Crusher stone dust	Cum	706.00	565.20	399031
5.0	Item 2.6	Earth work in excavation by mechanical means (Hydraulic excavator)/manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including disposal of excavated earth lead upto 50 m and lift upto 1.5 m, disposed earth to be levelled and neatly dressed				
	2.6.1	All kinds of soil	cum	95.00	114.30	10859
6.0	Item 2.28 (Volume 1)	Surface dressing of the ground including removing vegetation and inequalities not exceeding 15 cm deep and disposal of rubbish, lead up to 50 m and lift up to 1.5 m.				
	2.28.1	All kinds of soil.	sqm	1500.00	5.97	8951
7.0	Item 2.34.3	Treatment of soil under existing floors using chemical emulsion @ one litre per hole, 300 mm apart including drilling 12 mm diameter holes and plugging with cement mortar 1 :2 (1 cement : 2 Coarse sand) to match the existing floor:				
	Item 2.34.3.1	With Chlorpyriphos/Lindane E.C. 20% with 1% concentration	sqm	900.00	55.80	50220
8.0	Item 4.1	Providing and laying in position cement concrete of specified grade excluding cost of centring and shuttering All works upto plinth level				
	4.1.3	Cement concrete grade M-15 (Nominal mix) with 40 mm maximum size of stone aggregate	cum	13.00	3684.60	47900
9.0	4.16	Making Plinth protection 50mm thick with Cement concrete of grade M-10 (Nominal Mix with 20mm size stone aggregate) over 75mm bed by dry brick ballast 40mm nominal size well rammed and consolidated and grouted with fine sand including finishing top surface smooth.	sqm	116.00	377.10	43744

10.0	Item 5.31	Providing and laying in position machine batched, machine mixed and machine vibrated design mix cement concrete of specified grade for reinforced cement concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures in recommended proportions as per IS 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per direction of Engineer-in-charge. M-25 grade reinforced cement concrete by using 410 kg. of cement per cum of concrete.				
		All works upto floor llnd level	cum	201.00	4720.50	948821
12.0	Item 5.3	Reinforced cement concrete work in beams suspended floors roofs having slopes of 15° landings balconies shelves chajjas lintels band plain window sills staircases up to floor two and spiral stair casees upto floor two level excluding the cost of centring shuttring finishing and reinforcement with cement concrete grade M-20 (Nominal mix with 20mm maximum size of stone aggregate).	cum	52.00	4608.00	239616
14.0	5.20	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 of grade Fe-500D or more.	Kg	12800.00	54.00	691200
15.0	16.3	Boring, providing and installing bored cast-in-situ single under reamed pile of specified diameter and length below the pile cap M 35 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).				
	16.3.1	300 mm dia piles	meter	0.00	1563.30	0
16.0	20.1	Centering and shuttering including strutting, propping etc. and removal of form for :				
	20.1.1	Foundations, footings, bases of columns, etc. for mass concrete	Sqm	114.00	124.20	14159
	20.1.5	Lintels, beams, plinth beams, girders, bressumers and cantilevers	Sqm	193.00	182.70	35261
	20.1.6	Columns, Pillars, Piers, Abutments, Posts and Struts	Sqm	194.00	253.80	49237
		A. ARCHITECTURAL FINISHES				
		Masonry and Plaster				
17.0	6.2	Brick work with well burnt chimney bricks in bulls patent trench klin, crushing strength not less than 25 kg/sqcm and water absorption not more than 20% in foundation and plinth				
	6.2.2	With Cement mortar 1:6(1cement: 6 coars sand)	Cu.m	19.50	3431.70	66918
		Plaster				

18.0	13.4.1	12 mm cement plaster of mix : (1 cement : 4 fine sand)	Sq.M.	58.00	96.30	5585
19.0	13.46	Finishing walls with Acrylic Smooth exterior Paint of required shade				
	13.46.1	New work (Two or more coat applied @ 1.67 lit/ 10 sqm over and including base coat of water proofing cement paint applied @ 2.20 kg/10sqm)	Sq.M.	3580.00	57.60	206208
21.0	13.48	Finishing walls with Deluxe Multi surface paint system for interiors and exteriors using primer as per manufacturers specification				
22.0	13.48.1	Two or more coat applied @ 1.25 lit/ 10 sqm over and including one coat of Special primer applied @ 0.75 kg/10sqm)	Sq.M.	1350.00	67.50	91125
		Flooring				
23.0	11.39	Providing and laying Vitrified tiles in different sizes (thickness to be specified by the manufacturer), with water absorption less than 0.08% and conforming to IS: 15622, of approved brand & manufacturer, in all colours and shade, in skirting, riser of steps, laid with cement based high polymer modified quick set tile adhesive (water based) conforming to IS: 15477, in average 6 mm thickness, including grouting of joints with white cement and matching pigments etc.				
	11.39.3	Size of Tile 80x80 cm	Sq.M.	422.00	1409.40	594767
24.0	11.38	Providing rectified ceramic glazed floor tiles 300X300mm or more (8mm to 10mm thick) of 1st quality confirming to IS15622 of approved make and colours, shades except white, ivory , grey, fumed red brown, laid over bed of 20mm thick cement mortar 1:4 (1cement:4 coarse sand) including pointing the joints with white cement and matching pigment etc complete	Sq.M.	70.00	902.70	63189
26.0	11.34	Providing and fixing 1st quality ceramic glazed wall tiles(6mm to 7mm thick) confirming to IS 15622 of approved make in all colours,shades except burgandy, bottle green, black of any size as approved by Engineer-in-charge in skirtings risers of steps and dados over 12mm thickbed of cement mortar 1:3(1 cembrnt: 3 Corse sand) and jointing withgrey cement slurry @ 3.3 kg/sqm including pointing in joints with white cement mixed with matching pigment shade complete	Sq.M.	124.00	617.40	76558
28.0	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).	Cum	40.00	4588.20	183528

30.0	12.45	Providing and fixing false ceiling at all height including providing and fixing of frame work made of special sections, power pressed from M.S. sheets and galvanized with zinc coating of 120 gms/sqm (both side inclusive) as per IS : 277 and consisting of angle cleats of size 25 mm wide x 1.6 mm thick with flanges of 27 mm and 37mm, at 1200 mm centre to centre, one flange fixed to the ceiling with dash fastener 12.5 mm dia x 50mm long with 6mm dia bolts, other flange of cleat fixed to the angle hangers of 25x10x0.50 mm of required length with nuts & bolts of required size and other end of angle hanger fixed with intermediate G.I. channels 45x15x0.9 mm running at the spacing of 1200 mm centre to centre, to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having lips of 10.5 mm, at 450 mm centre to centre, shall be fixed in a direction perpendicular to G.I. intermediate channel with connecting clips made out of 2.64 mm dia x 230 mm long G.I. wire at every junction, including fixing perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall/partition with the help of rawl plugs at 450 mm centre, with				
	12.45.1	12.5 mm thick tapered edge gypsum plain board conforming to IS: 2095- Part I	Sqm	845.00	646.20	546039
		Door, Windows, Ventilators, Shutters				
32.0	9.20	Providing and fixing ISI marked flush door shutters conforming to IS : 2202 (Part I) decorative type, core of block board construction with frame of 1st class hard wood and well matched commercial 3 ply veneering with vertical grains or cross bands and face veneers on both faces of shutters using following hinges:				
	9.20.1	35 mm thick including ISI marked butt hinges with necessary screws	Sq.M.	22.00	1890.00	41580
34.0	9.22	Extra for providing and fixing flush door with decorative veneering				
	9.22.1	On one side in item no 9.21	Sqm	44.00	334.80	14731
35.0	9.23	Extra for providing lipping with 2nd class teak wood batterns	Sqm	22.00	315.90	6950
36.0	9.24	Extra for providing vision panel not exceeding 0.1 sqm in all types of				
	9.24.1	Ractangular or square shape	Sqm	2.00	108.00	216
37.0	9.26	Extra for cutting rebate in flush door shutters (Total area of the shutter should be measured).	Sqm	4.20	71.10	299
38.0	9.88	Providing and fixing chromium plated brass 100 mm mortice latch and lock with 6 levers and a pair of lever handles of approved quality with necessary screws etc. complete.	Each	7.00	600.30	4202
40.0	9.74.2	Providing and fixing bright finished brass tower bolts (barrel type) with necessary screws etc. complete : Size 200x10 mm	Each	21.00	171.90	3610
42.0	9.81	Providing and fixing ISI marked brass handles with necessary screws etc. Complete				
	9.81.1	125 mm	Each	42.00	137.70	5783
44.0	9.82	Providing and fixing bright finished brass hanging floor stopper with necessary screws etc. Complete	Each	9.00	111.60	1004

46.0	9.83	Providing and fixing aluminium die cast body tubular type universal hydraulic door closer (having brand logo with ISI, IS : 3564, embossed on the body, door weight upto 35 kg and door width upto 700 mm),with necessary accessories and screws etc. complete.	No.	7.00	715.50	5009
48.0	9.122.2	30 mm thick Fiberglass Reinforced Plastic (F.R.P.) flush door shutter in different plain and wood finish made with fire retardant grade unsaturated polyester resin, moulded to 3 mm thick FRP laminate all around, with suitable wooden blocks inside at required places for fixing of fittings and polyurethane foam (PUF)/ Polystyrene foam to be used as filler material throughout the hollow panel, casted monolithically with testing parameters of F.R.P. laminate conforming to table - 3 of IS: 14856, complete as per direction of Engineer-in-charge. (2 hours Fire Rating)	Sq.M.	19.00	2786.40	52942
50.0	9.121	Providing and fixing Fiber Glass Reinforced plastic (FRP) Door Frames of cross-section 90 mm x 45 mm having single rebate of 32 mm x 15 mm to receive shutter of 30 mm thickness .The laminate shall be moulded with fire resistant grade unsaturated polyester resin and chopped mat. Door frame laminate shall be 2 mm thick and shall be filled with suitable wooden block in all the three legs. The frame shall be covered with fiber glass from all sides. M.S. stay shall be provided at the bottom to steady] the frame.	metre	60.00	471.60	28296
51.0	23.70	Providing, fixing chlorinated polyvinyl Chloride (CPVC) pipes , having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipes with clamps at 1.00 m spacing. This includes jointing of pipes & fittings with one step CPVC solvent cement and the cost of cutting chases and making good the same including testing of joints complete as per direction of Engineer in charge.				
		Concealed work including cutting chases and making good the walls etc.				
	23.7.2	20mm nominal outer dia pipes	R.M.	80.00	100.80	8064
	23.7.3	25mm nominal outer dia pipes	R.M.	45.00	126.00	5670
	23.7.4	32mm nominal outer dia pipes	R.M.	70.00	167.40	11718
52.0	8.2	Providing and fixing 16mm thick gang saw cut mirror polished premoulded and prepolished) machine cut for kitchen platforms, vanity counters, window sills , facias and similar locations of required size of approved shade, colour and texture laid over 20mm thick base cement mortar 1:4 (1 cement : 4 coarse sand) with joints treated with white cement, mixed with matching pigment, epoxy touch ups, including rubbing, curing, moulding and polishing to edge to give high gloss finish etc. complete at all levels.				
	8.2.8.2	Area of slab over 0.50 sqm	sq.m	47.00	2289.60	107611
TOTAL OF SUBHEAD-I						4837057

CONSTRUCTION OF INDOOR SPORTS COMPLEX AT FOOTA TAAL, JABALPUR,JSCL

Subhead-II : CIVIL NON SR

Sr. No.	SOR Ref.	Description	Unit	Qty	Rate	Amount
A. ARCHITECTURAL FINISHES						
Skirting/Partitions / Railing/plumbing						
1.0	Non DSR	Providing and fixing skirting with medium density fibre Skirt Board, 12 mm thick of approved brand with necessary fixing arrangements and screws, including drilling necessary holes for rawl plugs etc. all complete. 12 mm thick 100mm wide skirt board.	Rm	126.00	190.00	23940
PART TOTAL						23940.00
PART-B: WATER PROOFING						
4.0	Non DSR	Providing and laying water proofing treatment for sealing the corner of wet area by WPM 300 and fiber mesh tape	RMT	48.00	650.00	31200
5.0	Non DSR	Providing and laying water proofing treatment in Roof RCC over deck sheet, by applying cement slurry mixed with water proofing cement compound Kryton Kim	Sqm	508.00	350.00	177800
PART TOTAL						209000
PART-C: Outer EIFS Cladding And Sports Flooring						
6.0	Non DSR	Providing and fixing EIFS finishing system on external face of building consisting of Expanded Polystyrene (EPS) 25mm thick fixed to FCB both mechanically and with adhesive. Base Coat with modified polymer based synthetic cement compound reinforced with synthetic fibre mesh. Top Coat stuccos applied in two coats, the scratch and brown coats applied with Acrylic finishes to provide protection and beauty to the finished wall system.	sqm	856.87	2700.00	2313549
7.0	Non DSR	Supply, installation & finishing of Air-Gush wooden sports flooring system confirming the requirement of BWF (world Badminton Federation) consisting of: Maple wood surface board finished with 21 mm thick, 60 to 70 mm width and in random length in tongue and groove shape.The edges of the boards will have a finger lock groove and the bottom side with air pass groove and applied with polyurethane lacquer.	sqm	299.00	6787.00	2029313
9.0	Non DSR	Supply, installation & finishing of fitness center floor with synthetic rubber coating	sqm	72.00	1241.00	89352
PART TOTAL						4432214
PART D SOIL , WASTE, VENT & RAIN WATER PIPES AND FITTINGS - SWR						
12.0	Non DSR	Supplying, Fixing and Testing uPVC soil, waste and vent pipes (SWR) conforming to IS: 13592 - 2013, and IS: 14735 Type B with rubber ring confirming to IS: 5382) joint inclusive of all necessary specials like bends, tees, offsets, doorbends, junctions, cowls, etc., laid under floor/ fixed on walls, hung under the ceiling, and in pipe shafts, etc., complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps and making good the openings, etc. The rate should include supplying and fixing GI slotted angle iron brackets, hangers, supports with necessary drilling holes to suit the insertion of pipe clamps, deburring, etc., as per detailed drawing for supporting soil, waste and rain water pipes and water supply pipes in shafts with suitable fabricated GI clamps, GI bolts, GI anchor bolts, GI nuts and GI washers fixed on shaft walls, outer walls, brick work/ concrete supports, including all kind of supports etc. The brackets shall be galvanised with zinc alloy of 0.08 mm thick confirming to IS: 1239, etc. complete.				
		110 mm dia	RM	40.00	534.60	21384
		75 mm dia	RM	70.00	394.90	27643
13.0	Non DSR	Supplying, Fixing and Testing uPVC rain water pipes (SWR) conforming to IS: 13592 - 2013, and IS: 14735 Type A with rubber ring conforming to IS: 5382) joint inclusive of all necessary specials like bends, tees, offsets, doorbends, junctions, cowls, etc., laid under floor/ fixed on walls, hung under the ceiling, and in pipe shafts, etc., complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps and making good the openings, etc.				
		110 mm dia	RM	163.00	534.60	87140
14.0	Non DSR	Supplying, fixing and testing uPVC pressure pipes (6 Kg/sq cm) conforming to IS 4985 for anti syphonage/ vent pipe with solvent cement joints, including all the fittings, laid above false ceiling concealed in wall etc, the work shall include wall chase and making good the same in cement mortar etc., complete. The quoted rate should include necessary supports like hanger supports, grip bolts and clamps etc., in false ceiling area as well as supplying and fixing GI slotted angle iron brackets, hangers, supports with necessary drilling holes to suit the insertion of pipe clamps, deburring etc., complete as per detailed drawing & specified.				
		50 mm dia.	RM	248.00	959.20	237882
		32 mm dia.	RM	164.00	797.50	130790
15.0	Non DSR	Providing, fixing and testing unplasticised PVC deep seal floor drain / MFT / NT of self cleansing design with arm with provision for connection G.I. / PVC inlet fitting complete including cost of cutting and making good the walls and floors wherever required.				
		Nhani Floor Trap 110 x 110 mm	Nos	26.00	1122.00	29172

16.0	Non DSR	Providing and fixing uPVC Clean Out Plug comprising UPVC extension piece, reducer/adopter/connector fittings matching pipe material, upvc female threaded socket matching pipe material caulked/joined to pipe and cast brass plug with suitable arrangement to open with inlet key/ wrench to open male threaded joint, complete as shown in drawing & specified.				
		110 mm dia	Nos	4.00	1122.00	4488
17.0	Non DSR	Supplying, Installing, testing & Commissioning UPVC Vent cowl as per IS 14735 inclusive of all fittings etc for installation as specified & shown in drawings complete				
		160 mm dia	Nos	4.00	70.40	282
		110 mm dia	Nos	12.00	40.70	489
		75 mm dia	Nos	21.00	30.80	647
18.0	Non DSR	Supplying and fixing of approved make scupper drain through CI body including aluminium grating with SS screw type rain water Khurra.inclusive of all fittings required for complete installation as specified & shown in drawings complete				
		200 mm dia	Nos	4.00	9281.80	37128
		160 mm dia	Nos	2.00	6187.50	12375
19.0	Non DSR	Providing and constructing catch pits of size as below for collecting storm water of following depth in First class B.B. masonry in C.M. 1:6 including excavation laying PCC (1:4:8) bedding 150mm thick foundation and bedding projection 75mm, providing 20mm thick cement plaster (1:3) from inside and outside and Pre-cast factory manufactured RCC perforated cover with frame (medium class) and finishing with cement punning etc all complete as per drawings, specifications and directions of the engineer in charge.(inclusive of installation cost with all taxes)				
		450mm x 450mm (upto 1.2m depth)	Nos	4.00	31040.63	124163
20.0	Non DSR	Providing, Laying, Testing and Commissioning in position buried HDPE pipework, pipes shall conform to IS: 14333, PN-6 pressure rating, PE - 80 material grade for external drainage system. The pipe joining shall be done with electrofusion welding. The Cost shall be inclusive of all required fittings, accessories, flanges, tools and tackles, pipe identification tapes, etc. all complete as specified and directed by Engineer.				
		160mm OD	RM	15.00	3712.50	55688
			PART TOTAL			769271
			TOTAL OF SUBHEAD-II			5434425

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SUBHEAD - III : CIVIL WORKS (DSR)

S.No.	DSR 2016 Ref.	Description	Unit	Qty	Rate	Amount
1	DSR 10.28	Providing and fixing stainless steel (Grade 304) railing made of Hollow tubes, channels, plates etc., including welding, grinding, buffing, polishing and making curvature (wherever required) and fitting the same with necessary stainless steel nuts and bolts complete, i/c fixing the railing with necessary accessories & stainless steel dash fasteners , stainless steel bolts etc., of required size, on the top of the floor or the side of waist slab with suitable arrangement as per approval of Engineer-in charge, (for payment purpose only weight of stainless steel members shall be considered excluding fixing accessories such as nuts, bolts, fasteners etc.).	kg	245	472.4	115738
	25.8	Design supply & installation of suspended Spider Glazing system designed to withstand the wind pressure as per IS 875 (Part-III). The Suspended System held with Spider Fittings of SS-316 Grade Steel of approved manufacturer with glass panel having 12 mm thick clear toughened glass held together with SS- 316 Grade Stainless steel Spider & bolt assembly with laminated glass fins 21 mm thick. The Glass fins and glass panel assembly shall be connected to Slab/ beams by means of SS- 316 Grade stainless steel brackets & Anchor bolts and at the bottom using SS channel of 50x25x2mm using fastener & anchor bolts, non staining weather sealants of approved make, Teflon/ nylon bushes and separators to prevent bi-metallic contacts, all complete to perform as per specification and approved drawings. The complete system to be designed to accommodate thermal expansion & seismic movements etc. The joints between glass panels (6 to 8 mm) and gaps at the perimeter & in U channel of the assembly to be filled with non staining weather sealant, so as to make the entire system fully water proof & dust proof. The rate shall include all design, Engineering and shop drawing including approval from structural designer, labour, T&P, scaffolding, other incidental charges including wastage, enabling temporary services all fitting fixers nut bolts, washer, Buffer plates, fastener, anchors, SS channel laminated glass etc. all complete. For the purpose of payment, actual elevation area of Glazing including thickness of joints and the portion of Glass panel inside the SS channel shall be measured	Sqm.	114	6928.55	789855
1	DSR 26.42	Providing and fixing of external wall system on Light gauge steel frame work with . Outer face having 6mm thick heavy duty fiber cement board fixed on 9mm thick heavy duty fiber cement board confirming to IS 14862:2000, category IV type A (High pressure steam cured) as per standard sizes fixed with self drilling / tapping screws / fasteners @ 60cm c/c of approved make. A groove of 2 mm to 3mm shall be maintained and groves shall be sealed with silicon based sealant. The board shall be fixed in a staggered pattern.Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm and internal face 12.5mm thick gypsum plaster board fixed on 8mm thick fiber cement board confirming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with selfdrilling / tapping screws / fasteners @ 60cm c/c of approved make, proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately).	Sqm.	250.00	2783.65	695913

2	DSR 26.43	Providing and fixing internal wall panels on Light gauge steel frame work with 12.5mm thick gypsum plaster board conforming IS 2095:2011 fixed on 8mm thick fiber cement board conforming to IS 14862:2000 of category III type B (High pressure steam cured) as per standard sizes fixed with self-drilling / taping screws / fasteners @ 60cm c/c of approved make, Screws shall be of counter sunk rib head of 1.60mm to 4 mm thick of 8 to 10 gauge of length varying from 25 to 45 mm. Proper taping and jointing to be done using fiber mesh tape and epoxy and acrylic based jointing compound for seamless finish.(cost of frame work to be paid for separately)	Sqm.	1076.00	1738.45	1870572
4	DSR 26.44	Providing and fixing in all exterior face panels breathable vapour barrier underneath the cement fiber board as per National Building Code 2009 complete as per direction of Engineer-in-charge.	Sqm.	1450.00	238.05	345173
Total SUBHEAD-III						3817250

CONSTRUCTION OF INDOOR SPORTS COMPLEX AT FOOTA TAAL, JABALPUR, JSCL

SUBHEAD - IV : PRE-ENGINEERED STRUCTURE FABRICATION (NON SR)

It. No.		Item Description	Unit	Quantity	Rates in Rs	Amount in Rs.
		Structural Steel Work				
1.0	NON DSR	Supply, fabricating, steel structural for columns, rafter, , beams, mezzanine, brackets including cutting, wastage, rolling margin, making holes, bolted connections, welding (shop and site) if required, welding electrode of supply and fixing of pre galvanized bolts, nuts, check nuts & washers of high strength 8.8 grade bolts for primary wherever necessary etc. complete as directed.	MT	34.20	144496.00	4941763
2.0	NON DSR	Supply, fabricating, steel structural for staircase and Gate including cutting, wastage, rolling margin, making holes, bolted connections, welding (shop and site) if required, welding electrode of supply and fixing of pre galvanized bolts, nuts, check nuts & washers of high strength 8.8 grade bolts for primary members wherever necessary etc. complete as directed.	MT	3.90	144496.00	563534
4.0	NON DSR	Providing & fixing in position DECK Sheet 0.7mm thick and crest depth 50-55mm steel sheet of approved equivalent make, for concrete slab, sheet shall be hot deep Zinc coated high strength steel with 345 MPa yield strength and zinc coating on both sides as per structural details including cutting welding etc. complete as directed by Engineer-In-Charge at all levels.	Sq M	580.00	1110.00	643800
		TOTAL SUBHEAD VII				6149098

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SUBHEAD - V : CIVIL WORKS (MPSR)

S.No.	MP SR 2014 Ref.	Description	Unit	Qty	Rate	Amount
1	MPSR 24.1	Design, Supply and fixing of factory finished customized designed Cold Form light Gauge steel Framed super structure manufactured out of minimum 0.75 thick (Load bearing members shall not be less than 1.2mm thick) Pre-treated factory finished Bare Galvalume/hot dipped GI hi-tensite steel sheet (AZ150 gsm-Aluminim Zinc alloy coated steel and 550 Mpa yield strength) conforming to AISI specifications and IBC 2009 for cold formed steel framing & construction and shall also be as per IS : 8750-1987, IS:800-1984 and kKIS 861:1975. The wind load shall be as per provisions of IS 875 (part-III) The framing section kshall be cold form C-type having minimum depth of (89mm depth x 39 mm flange x 11mm lip) in required length as per structural design requirements, duly punched with complies lot at required locations as per approved drawings, the slots will be along centre the of the webs and shall be spaced minium 250mm away from both ends of the members. The frame can be supplied in Pannelized or knock down condition in specified kdimensions and fastened with designed screws (minimum 4 mm Dia. galvanized wafer head steel screws. Add extra for each kg of structural frame for providing approved uplift connector, extra bracings & SS expandable anchor bolts for building in seismic zone III, IV and V or wind spead in excess of 90 Km per hours as per design.	Kg.	22738.00	173	3929116
2	MPSR. 24.3	Providing and fixing Trims for Window and Door 1mm thick with Zinc coating not less than 275gm/m3	metre	64.00	532.8	34099
3	MPSR 24.4	Providing and fixing nuprene rubber in between wall frame and foundation	meter	275.00	262.8	72270
	MPSR 12.43	Providing and fixing thermal insulation of ceiling (under deck insulation) with resin bonded rockwool conforming to IS 8183 having density 48kg/m³ 50mm thick, wrapped in 200G virgin poythere bags fixed to ceiling with metallic cleats (50X50X3) @ 60 cm and wire mesh of 12.5mmX24 gauge wire mesh, for top most ceiling of building.	Sqm.	963.00	516.6	497486
4	MPSR 12.45	Providing and fixing thermal insulation with resin bonded rockwool conforming to IS 8183 having density 48kg/m³ 50mm thick wrapped in 200G virgin poythere bags fixed to walls with screws ,rawl plug and washers and held in position by criss crossing gi wire	Sqm.	1405.00	403.20	566496
5	MPSR 12.57	Providing and fixing plain multipurpose cement board (High pressure steam cured) as per IS:14862 with suitable screws for fiber cement board in ceiling etc complete (frame work to be paid seperately):				
	MPSR 12.57.1	6mm thick fiber cement board	Sqm.	125.00	385.20	48150
6	MPSR 24.9	Providing and fixing silicon modified polymer precoated galvanised steel sheets (size , shape and pitch of corrugation as approved bt Engineer-in-charge) 0.50 mm +/- 5% total coated thickness (TCT) thick Zinc coating 120gsm as per IS:277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns.Sheets should have protective guard film of 25 microns minimum to avoide scratches while transportation and should be supplied in single length upto12meter or as desired by Engineer-in-charge. The sheet shall be fixed using self drilling/ self tapping screws of size (5.5X55mm) with EPDM seal, complete upto any pitch in horizontal/vertical or curved surfaces excluding the cost of purlings, rafters and trusses and including cutting to size wherever required.	Sqm.	457.00	586.80	268168

7	MPSR 24.10	Providing and fixing silicon modified polymer precoated galvanised steel sheet roofing accessories 0.50 mm +/- 5% total coated thickness (TCT) thick Zinc coating 120gsm as per IS:277 in 240mpa steel grade, 5-7 microns epoxy primer on both side of the sheet and polyester top coat 15-18 microns using self drilling/ self tapping screws or with polymer coated J or hooks,bolts and nuts and or G.I. seam bolts and nuts, G.I. plain and bitumen washers complete :				
	24.10.1	Ridges Plain (500-600mm)	Meter	25.00	649.8	16245
	24.10.2	Flashings / Aprons (up to 600mm)	Meter	253.00	635.40	160756
	24.10.6	Gutter (600mm over all girth)	Meter	50.00	763.2	38160
PART-B: SANITARY FIXTURES, ACCESSORIES AND BATHROOM FITTINGS						
8.0	MPSR 25.2	Providing & fixing white vitreous china pedestal type Anti germ Floro polymer coated water closet European W.C. pan size 390X365X540mm with soft closing seat cover and 7.2 lit low level slim dual flushing , PP (polypropylene) made 80mm thick conseal flushing cistren flushing capacity 3 lit/6lit, with all fittings complete including all fittings and brackets, cutting and making good the walls and floors wherever required.	each	6.00	10760.40	64563
		25.2.1 Anti germ fluoro-polymer coated(neno coating) European W.C. size 390x365x540mm with solid poly propelyne made soft clasing seat cover				
9.0	MPSR 25.37	Providing and fixing in position best indian health faucet with 8mm dia long flexible tube and wall bracket with NR.V .	each	5.00	1728.00	8640
10.0	MPSR 25.7.1	Providing & Fixing of white vitreous china type Anti germ Fluoro polymer coated wash basin of size 160 x 580X 450 mm with CI brackets 15mm CP wall mounted pressmatic pillar cock auto closing sustem (decol technology), 15mm quarter turn angular stop cock 32mm C.P. brass waste coupling length 130mm and 32mm CP brass made bottle trap size 200X300mm fittings and fixtures, complete including all fittings and brackets, cutting and making good the walls and floors wherever required.	each	12.00	12168.00	146016
		25.7.1 White Vetrious china anti germ Fluoro -polymer caoted wash basin size 160x580x450mm with basin mounted pressmatic pillar cock auto closing system(decol technology)				
11.0	MP SR 25.11	Providing and fixing white vitreous china flat back anti germ fluoro polymer coated Urinal(inbuilt spresder,inbuilt bottle trap and inbuilt ceramic waste coupling)size 670x330x325mm with 15mm brass made presmatic auto closing consealed urinal flush valve with wall flange complete including painting of fitting and brackets,cutting and making good the wall and floors wherever required	Nos	4.00	12001.50	48006
		25.11.1 White vitreous china anti germ fluoro poymer coated urinal size 670x330x325mm with 15mm bras made presmatic auto cloasing consealed urinal flush valve with wall flange				
12.0	MP SR 25.36	Providing and fixing in position best indian(bonut size 24mm,ceramic disc size 19mm and min. body thickness 2mm,nickel plating 0.10 micron and chrome plating 0.3 micron,quarter turn) 2-way bib cock.	each	20.00	1836.00	36720
13.0	MP SR 25.55	Providing & Fixing in position best indian C.P. Brass made(0.3micron chrom and 10micron nickel plated) soap dispenser with metallic bottle	each	12.00	2646.00	31752
14.0	MP SR 25.57	Providing & Fixing in position best indian C.P. Brass made(0.3micron chrom and 10micron nickel plated) Toilet paper holder with Flap.	Nos	5.00	1458.00	7290
15.0	MP SR 25.60	Providing & Fixing in position best indian C.P. Brass made(0.3micron chrom and 10micron nickel plated) Double coat Hook	each	19.00	648.00	12312
16.0	MP SR 25.61	Providing & Fixing in position best indian C.P. Brass made(0.3micron chrom and 10micron nickel plated) Towel Rake 600mm	Nos	18.00	2700.00	48600
17.0	MP SR 25.20	Providing & fixing in position best indian(bonut size 24mm,ceramic disc size 19mm and min. body thickness 2mm,nickel plating,10 micron and chrome plating 0.3 micron,quarter turn)ANGULAR STOP COCK	Nos	20.00	1080.00	21600
18.0	MP SR 25.31	Providing & fixing in position best indian C.P brass made shower arm length 600mm (nickel plating,10 micron and chrome plating 0.3 micron,quarter turn)	Nos	7.00	1404.00	9828

19.0	MP SR 25.33	Providing & fixing in position best indian shower rose 150mm dia body and face chrome plated,brass made body,silicon based rubit cleaning nozzle	Nos	7.00	3780.00	26460
20.0	MP SR 19.28	Construction of Brick masonry road gully chamber 45x45x77.5cm with bricks in CM 1:4 mixed with precast R.C.C. vertical grating complete as per standard design with well burnt bricks	Nos	4.00	4419.00	17676
21.0	MP SR 26.23	Providing and fixing of carbon-di-oxide type fire extinguishers consisting of welded M.S. cylindrical body,Squeeze lever discharge valve fitted with pressure indicating guage internal discharge tube 30 cms long high presssure discharge hose,discharge no Capacity 4.5kg	each	15.00	10215.90	153239
22.0	MP SR 9.182	Providing and fixing ,Upvc factory made,white colour casement/sliding window and door made of extruded profiles. Profiles of frames and sash will be mitered cut and fusion welded at all corners including drilling of holes for fixing of hardware,EPDM gasket,1.2+_0.2mm thick galvanized steel profile to be inserted in required profile,frame will be fixed to the wall with 8mmx100mm long fasteners,all complete as per direction of engineer in charge(glazing,hardware hinges and fitting etc. to be paid seperately)				
		9.182.3.1 TWO TRACK SLIDING FRAME(67MMX52MM)	metre	30.00	509.40	15282
		9.182.3.2 sliding window sash (60MMX44MM)	metre	30.00	476.10	14283
		9.182.3.4 Sliding glazing bead (35MMX18MM)	metre	86.00	160.20	13777
		9.182.3.3 sliding interlock for window 45.5mmx28mm)	metre	15.00	125.10	1877
23.0	MP SR 21.3	Providing and fixing glazing in window door ventilator shutters and partision with epdm rubber gasket complete as per direction of engineer incharge withfloat glass panes of 4.0 mm thickness	sqm	11.00	764.10	8405
24.0	MP SR 24.5	Supply and Installation of Moisture/fire resistant cement fiber board(high pressure steam cured) category III type A conforming to IS 14862:2000 in wall panels on external faces of galvanized cold formed light guage steel frame structure to form wall/Partision wall on external faces of the frame fixed with self drilling/tapping screw/fasteners of approved make.The hollow wall space between two cement fiber board will be provided with 50mm thick resin bonded glass wool insulation conforming to IS 8183 and of density not less than 48kg/cum(glass wool insulation shall be paid sepaerately).All exterior faces of the wall/frame shall essentially be provided with breathable vapour barrier underneath the cement fiber board.The installation of the vapour barrier should conform to the provision of international building code 2009 and as per design.the joint of the cement board must be sealed with polymer modified thin set mortar conforming to ANSI A 118.4 standard and self adhseive alkali resistant dry wall fiber mesh tape of minimum 100 mm width.All exterior wall corner of cement fiber board wall panels must be reinforced with glvanized metal angles of 100mmx100mmx1.09mm thickness and fixed on both adjoining walla with self drilling/tapping fasteners of approved make as per design including providing silicon gel caulking complete in all respects.				
		24.5.2 10mm thick cement fiber board category 3 type A	sqm	856.88	1026.90	879930
		Total SUBHEAD VIII				7197201

Indoor Sports Complex at FOOTA TAAL Jabalpur

S. No.	Description	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	Sub Total (Rs.)
Part A Site Development Work						
1	Sewer	2000	Sqmt	110	2,20,000.00	
2	Storm water Drains	2000	Sqmt	85	1,70,000.00	
3	Badminton Hall Equipments with markings	2	Nos	65,000	1,30,000	
4	Signages Work	1000	Sqmt	80	80,000	
SUB TOTAL A					6,00,000	6,00,000
TOTAL A+B					6,00,000	6,00,000