

**CONSTRUCTION OF INDOOR SPORTS BUILDING AT SHIVNAGAR, JABALPUR**

<b>ABSTRACT</b>			
<b>S. No</b>	<b>SUBHEAD</b>	<b>Description</b>	<b>Amount</b>
1.0	I	CIVIL WORKS (UADSR)	4837057
2.0	II	CIVIL WORKS (NON SR)	3390876
3.0	III	CIVIL WORKS (DSR)	5177430
4.0	IV	PRE -FAB ENGINEERED STRUCTURE FABRICATION NON SR	6149098
5.0	V	PRE -FAB ENGINEERED MPSR	6779376
6.0	VI	Other ITEMS OF SITE DEVELOPMENT AND SPORTS UTILITY	600000
<b>TOTAL</b>			<b>26933837</b>

**CONSTRUCTION OF INDOOR SPORTS COMPLEX AT KARIYAPATHAR SHIVNAGAR & PHOOTAL,  
JABALPUR,JSCL**

**SUBHEAD - I : CIVIL WORKS (UADSR)**

Sr. No.	UADD SR 2012 Ref.	Description	Unit	Qty	UADD Rate	Amount
		<b>EARTH WORK EXCAVATION</b>				
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 including 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 Chlorpyrifos/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 II nd 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		1563.30	0
16.0	20.1	<b>Centering and shuttering including strutting, propping etc. and removal of form for :</b>				
	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
		<b>A. ARCHITECTURAL FINISHES</b>				
		<b>Masonry and Plaster</b>				
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
		<b>Plaster</b>				

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
		<b>Flooring</b>				
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 cement: 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
		<b>Door, Windows, Ventilators, Shutters</b>				
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 patterns	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	Rectangular 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 <b>chlorinated polyvinyl Chloride (CPVC) pipes</b> , 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.				
		<b>Concealed work including cutting chases and making good the walls etc.</b>				
	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
<b>TOTAL OF SUBHEAD-I</b>						<b>4837057</b>

**CONSTRUCTION OF INDOOR SPORTS COMPLEX AT KARIYAPATHAR SHIVNAGAR & PHOOTAL, JABALPUR,JSCL**

**Subhead-II : CIVIL NON SR**

Sr. No.	SOR Ref.	Description	Unit	Qty	Rate	Amount
<b>A. ARCHITECTURAL FINISHES</b>						
		<b>Skirting/Partitions / Railing/plumbing</b>				
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	190.00	23940
		<b>PART TOTAL</b>				<b>23940.00</b>
		<b>PART-B: WATER PROOFING</b>				
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	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	350.00	177800
		<b>PART TOTAL</b>				<b>209000</b>
		<b>PART-C: Outer EIFS Cladding And Sports Flooring</b>				
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	100	2700.00	270000
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	6787.00	2029313
9.0	Non DSR	Supply, installation & finishing of fitness center floor with synthetic rubber coating	sqm	72	1241.00	89352
		<b>PART TOTAL</b>				<b>2388665</b>
		<b>PART D SOIL , WASTE, VENT &amp; RAIN WATER PIPES AND FITTINGS - SWR</b>				
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, cowl, 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	534.60	21384
		75 mm dia	RM	70	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, cowl, 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	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	959.20	237882
		32 mm dia.	RM	164	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	1122.00	29172

16.0	Non DSR	Providing and fixing uPVC Clean Out Plug comprising UPVC extension piece, reducer/adaptor/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	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	70.40	282
		110 mm dia	Nos	12	40.70	489
		75 mm dia	Nos	21	30.80	647
		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	9281.80	37128
		160 mm dia	Nos	2	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	31040.63	124163
		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	3712.50	55688
		<b>PART TOTAL</b>				<b>769271</b>
<b>TOTAL OF SUBHEAD-II</b>						<b>3390876</b>



**CONSTRUCTION OF INDOOR SPORTS COMPLEX AT KARIYAPATHAR SHIVNAGAR & PHOOTAL, JABALPUR,JSCL**

**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 grooves 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.	1074.00	2783.65	2989640

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 / tapping 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.	539.00	1738.45	937025
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
<b>Total SUBHEAD-III</b>						<b>5177430</b>

**CONSTRUCTION OF INDOOR SPORTS COMPLEX AT KARIYAPATHAR SHIVNAGAR & PHOOTAL, JABALPUR,JSCL**

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

It. No.		Item Description	Unit	Quantity	Rates in Rs	Amount in Rs.
		<b>Structural Steel Work</b>				
1.0	NON DSR	<b>Supply, fabricating, steel structural</b> 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	<b>Supply, fabricating, steel structural</b> 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 <b>0.7mm thick and crest depth 50-55mm steel sheet</b> 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
		<b>TOTAL SUBHEAD VII</b>				<b>6149098</b>

**CONSTRUCTION OF INDOOR SPORTS COMPLEX AT KARIYAPATHAR SHIVNAGAR & PHOOTAL, JABALPUR,JSCL**

**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 customed 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 comples 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	173	3929116
2	MPSR. 24.3	Providing and fixing Trims for Window and Door 1mm thick with Zinc coating not less than 275gm/m <sup>3</sup>	metre	64.0	532.8	34099
3	MPSR 24.4	Providing and fixing nuprene rubber in between wall frame and foundation	meter	275.0	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/m <sup>3</sup> 50mm thick, wrapped in 200G virgin poythere bags fixed to ceiling with metalic cleats (50X50X3) @ 60 cm and wire mesh of 12.5mmX24 gauge wire mesh, for top most ceiling of building.	Sqm.	963.0	516.6	497486
4	MPSR 12.45	Providing and fixing thermal insulation with resin bonded rockwool conforming to IS 8183 having density 48kg/m <sup>3</sup> 50mm thick wrapped in 200G virgin poythere bags fixed to walls with screws ,rawl plug and washers and held in position by criss cossing 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 avoid 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	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
<b>PART-B: SANITARY FIXTURES, ACCESSORIES AND BATHROOM FITTINGS</b>						
8.0	MPSR 25.2	Providing & fixing white vitreous china <b>pedestal type Anti germ Floro polymer coated water closet European W.C.</b> 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	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 <b>health faucet</b> with 8mm dia long flexible tube and wall bracket with NRV .	each	5	1728.00	8640
10.0	MPSR 25.7.1	Providing & Fixing of white vitreous china <b>type Anti germ Fluoro polymer coated wash basin</b> 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	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	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	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) <b>soap dispenser with metallic bottle</b>	each	12	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	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	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	2700.00	48600

17.0	<b>MP SR 25.20</b>	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	1080.00	21600
18.0	<b>MP SR 25.31</b>	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	1404.00	9828
19.0	<b>MP SR 25.33</b>	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	3780.00	26460
20.0	<b>MP SR 19.28</b>	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	4419.00	17676
21.0	<b>MP SR 26.23</b>	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	10215.90	153239
22.0	<b>MP SR 9.182</b>	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	509.40	15282
		9.182.3.2 sliding window sash (60MMX44MM)	metre	30	476.10	14283
		9.182.3.4 Sliding glazing bead (35MMX18MM)	metre	86	160.20	13777
		9.182.3.3 sliding interlock for window 45.5mmx28mm)	metre	15	125.10	1877
23.0	<b>MP SR 21.3</b>	Providing and fixing glazing in window door ventilator shutters and partition with epdm rubber gasket complete as per direction of engineer incharge				
		withfloat glass panes of 4.0 mm thickness	sqm	11	764.10	8405
24.0	<b>MP SR 24.5</b>	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 glavanized 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	450	1026.90	462105
		<b>Total SUBHEAD VIII</b>				<b>6779376</b>

### Indoor Sports Complex at Kariyapathar, Shivnagat and Phootatal Jabalpur

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