

PROJECT: MULTI SPORTS FACILITY FOR JABALPUR SMART CITY, MADHYA PRADESH, INDIA

CLIENT: JABALPUR SMART CITY LIMITED

SUMMARY OF COST - ATHLETIC TRACK & FOP

SL NO.	DESCRIPTION	FOOTBALL GROUND WITH NATURALTURF		AMOUNT
		SOR AMOUNT	NON SOR AMOUNT	
1	FIELD OF PLAY	₹ 3,29,453	₹ 2,94,66,915	₹ 2,97,96,368
2	ATHLETIC TRACK	₹ 1,42,37,913	₹ 3,89,13,851	₹ 5,31,51,764
3	DRAINAGE WORK	₹ 53,53,537		₹ 53,53,537
TOTAL COST		₹ 1,99,20,902	₹ 6,83,80,766	₹ 8,83,01,668

12% gst
total amount including GST ₹ 10596200
₹ 9,88,97,868


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TECHNICAL SANCTION
FOR RS. 988.97.....LACKS


SUPT. ENGR.
JSCL


05/01/22
TEAM LEADER
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Letter Reference No: - REPL-LEC/PDMC-JSCL/0122 104/A.

Date: 05/01/2022

To
The Chief Executive Officer
Jabalpur smart city Limited
Jabalpur, Madhya Pradesh

Subject: - For the approval of the Estimates of Athletics Track, Field of Play and Drainage Work of the Multi Sports Facility for Jabalpur Smart City, M.P.

Respected Madam,

Please find herewith the Estimates of Athletics Track, Field of Play and Drainage Work of the Multi Sports Facility for Jabalpur Smart City, for the approval please.

Thanking you,
Your's faithfully

Satyendra Kumar

Satyendra Kumar
Team Leader, PDMC, REPL JV with Lion Engineering Consultant Private Limited
Jabalpur Smart City Ltd, Jabalpur



Attachments: -

- The Estimates of Athletics Track, Field of Play and Drainage Work of the Multi Sports Facility for Jabalpur Smart City, M.P.

BILL OF QUANTITIES

Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
CONSTRUCTION OF NATURAL TURF FOOTBALL PITCH WITH DRAINAGE SYSTEM							
Sub Surface drainage Systems to be installed in the Football Pitch							
1	18.2.1 Vol I, 2021	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth,) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil	Cum	624.00	₹ 151.00	₹	₹ 94,224.00
2	MR-02	Supply & Laying Spiral ribbed perforated corrugated 100mm pipe(B S 4962:1989)OR ASTM equivalent in the trench close one end of the pipe and connect the other to periphery Drain	Mtr	1980.00	₹ 677.00	₹	₹ 13,40,460.00
3	MR-03	uPVC pipe connection for 100mm spiral Pipe to Drain	Set	1.00	₹ 34,832.00	₹	₹ 34,832.00
4	MR-04	Spiral ribbed perforated corrugated 100mm pipe(B S 4982:1989)end caps	nos	40.00	₹ 473.00	₹	₹ 18,920.00
5	MR-05	Spiral ribbed perforated corrugated 100mm pipe(B S 4982:1989)end Cuppliers	nos	10.00	₹ 1,394.00	₹	₹ 13,940.00
6	MR-06	Lay and back fill in the lateral drains to the surface by 10-20mm gauge,non-calcareous routine angular gravel	Cum	425.00	₹ 7,896.00	₹	₹ 33,55,800.00
7	MR-07	Supply & laying of 150 micron black poly ethylene sheet in the trenches with 50mm coverage on each side of the surfaces	sq.mt	3312.00	₹ 320.00	₹	₹ 10,59,840.00
8	18.2.1 Vol I, 2021	Earth work in excavation for foundation, trenches for pipes / cables or drains etc. by mechanical means / manual means (exceeding 30cm in depth,) including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil	Cum	150.00	₹ 151.00	₹	₹ 22,650.00
9	MR-09	250mm corrugated pipe with couplers	mtrs	166.00	₹ 1,672.00	₹	₹ 2,77,552.00
Sump tank							
10	2.6.1 Vol II, 2021	Earthwork excavation for foundation, trenches for pipes/cables or drains etc. by mechanical means/manual means(exceeding 30cm in depth,)including ramming of bottom, dressing of sides, disposal of excavated earth including of all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil	Cum	48.00	₹ 151.00	₹ 7,248.00	
11	4.1.3 Vol II, 2021	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work upto plinth level. Cement concrete grade M-15 (Nominal Mix) with 20mm maximum size of stone aggregate	Cum	2.59	₹ 4,755.00	₹ 12,315.45	

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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
12	5.2.1.2 vol II 2021	Providing and laying in position machine batch and machine mixed and machine vibrated design mix concrete of M-25 grade mixed in concrete mixer of not less than 0.2 cum capacity and appropriate weight batch using approved mix design, for reinforced concrete work including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement. including Admixtures 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. Above Plinth upto floor 2 level	Cum	35.60	5701.00	₹ 2,02,955.60	
13	19.1 Vol -II 2021	Centering and shuttering including strutting, propping, stretching etc. complete for and removal of formwork by sheet plate or plywood shuttering for:					
13.1	19.1.1	Foundations, footings, bases of columns, etc. For mass concrete.	Sqm	5.76	160.00	₹ 921.60	
13.2	19.1.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	Sqm	128.00	289.00	₹ 36,992.00	
14	5.11.4 Vol-II, 2021	Reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding upto floor level including cost of binding wire, wastage and overlaps upto 12mm horizontal/inclined position of reinforcement bars in slab and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over lap shall be provided as per requirement IS:13920; IS456&SP.34) etc. complete. Thermo-Mechanically Treated bars. (Fe 500 D or more)	Kg	1190.00	58.00	₹ 69,020.00	
15		Irrigation System to be installed (Fully Automatic Programmable) complete with pop-up sprinklers Solenoid valves, electric pump and panel					
15.1	5.1.2 Vol-I, 2021	Supreme/Finolux PVC Make Pipe Net work Providing, laying, jointing & testing of following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. <small>cost of solvents in all cases except 110 mm dia. 10 kg/cm²</small>	mitr	84.00	₹ 306.00	₹ 25,704.00	
15.2	5.1.2 Vol-I, 2021	Providing, laying, jointing & testing of following P.V.C. pipes with solvent cement joint for 6, 8 and 10 kg/ sq. cm. pressures including testing of joints, cost of jointing materials etc. <small>cost of solvents in all cases except 90 mm dia. 10 kg/cm²</small>	mitr	420.00	₹ 206.00	₹ 86,520.00	
15.3	MR-12	75MM 10 kg/cm ² PVC Pipe	mitr	360.00	₹ 455.00	₹ 1,63,800.00	
15.4	MR-13	63MM 10 kg/cm ² PC Pipe Pi	mitr	426.00	₹ 335.00	₹ 1,42,710.00	

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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
15.5	MR-14	32MM 10 kg/cm2 PVC Pipe	mtr	230.00	₹ 93.00		₹ 21,390.00
15.6	MR-15	Heavy Duty PN 16 PVC Fitting & Accessories	Lot	1.00	₹ 1,56,207.00		₹ 1,56,207.00
16		Pop up Sprinkler System					
16.1	MR-16	Toro (U.S.A) make TS 90 Series Sprinkler	Nos	35.00	₹ 40,305.00		₹ 14,10,675.00
16.2	MR-17	1" Size Lasco Make Swing joint (Imported)	Nos	35.00	₹ 3,889.00		₹ 1,36,115.00
16.3	MR-18	2" Size lateral isolation Valve	Nos	9.00	₹ 7,813.00		₹ 70,317.00
16.4	MR-19	2" Size Air Release Valve	Nos	1.00	₹ 4,635.00		₹ 4,635.00
16.5	MR-20	90mm x2"Size Services Saddle	Nos	11.00	₹ 1,188.00		₹ 13,068.00
16.6	MR-21	1" Size Brass QCV Key with Swing joint	Nos	6.00	₹ 4,635.00		₹ 27,810.00
16.7	MR-22	1"Size QCV Key	Nos	2.00	₹ 1,188.00		₹ 2,376.00
16.8	MR-23	1" Brass Swivel Elbow	Nos	2.00	₹ 1,365.00		₹ 2,730.00
16.9	MR-24	90mm x 1" Size services Saddle	Nos	6.00	₹ 1,102.00		₹ 6,612.00
16.10	MR-25	12" Size Rectangular Plastic Valve Box (Imported)	Nos	9.00	₹ 5,616.00		₹ 50,544.00
16.11	MR-26	7" Size Round Valve Box(Imported)	Nos	8.00	₹ 2,275.00		₹ 18,200.00

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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
17	MR-27	Pumping System Pump Set suitable to deliver 11.2 LPS with 74 Mtr. Head 20HP Monobloc Pump, Pressure Gauge, G.I Pipe & Fitting Control Panel having MCB, Indicating Lamps, Single Phasing preventer, Star-delta Starting etc (1W+15)	Nos	1.00	₹ 4,90,479.00		₹ 4,90,479.00
18	MR-28	3HP Pump with starter with G.I fitting & NRV for QCV	Nos	4.00	₹ 1,10,180.00		₹ 4,40,720.00
19	MR-29	Cable (2.5 sqmm) for submersible pumps	mtr	800.00	₹ 410.00		₹ 3,28,000.00
20	MR-30	Laying of one number PVC insulated and PVC sheathed / XLPE power cable of 1.1 KV grade of following size direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required.	mtr	800.00	₹ 460.00		₹ 3,68,000.00
21	MR-31	Electrical panel erection for submersible pumps	Nos	4.00	₹ 16,719.00		₹ 66,876.00
22	MR-32	Sensors for automatic operations	Nos	4.00	₹ 5,255.00		₹ 21,020.00
23	MR-33	G I Section and delivery header with G.I Pipe & fittings with fabrication	Set	1.00	₹ 16,719.00		₹ 16,719.00
24	MR-34	3" Size Disc Fitter with Fitting	NOS	1.00	₹ 5,255.00		₹ 5,255.00
25	MR-35	Automation items					
26	MR-36	TORO (USA) make 8 situation Irrigation Controller	Nos	1.00	₹ 66,997.00		₹ 66,997.00
27	MR-37	2" Size TORO (USA) make P220 Solenoid Valves	Nos	9.00	₹ 30,922.00		₹ 2,78,298.00
28	MR-38	14 AWG White Direct Burial Wire	Feet	1500.00	₹ 40.00		₹ 60,000.00
29	MR-39	16 AWG Red Direct Burial Wire	Feet	3000.00	₹ 35.00		₹ 1,05,000.00
		Miscellaneous Items, DBY, DBR, electric tape etc	L/S	1.00	₹ 12,362.00		₹ 12,362.00



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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
30	MR-40	Development of Football Pitch Supply and laying the Geo-Fabric textile 120GSM over the entire field Supply & apply 8-10 mm gravel upto 50mm from surface (choker layer) Supplying and laying of 200 mm medium fine top dressing sand:screened with all grit removed(root zone mix as per the specifications)	Sq.mt	11520.00	₹ 160.00		₹ 18,43,200.00
31	MR-41		Cum	580.00	₹ 7,896.00		₹ 45,79,680.00
32	MR-42		Cum	1404.00	₹ 1,500.00		₹ 21,06,000.00
33	MR-43	Supply of Special Organic feed imported water soluble fertilizers& slow release fertilizers good for the seeding of coated Bermuda grass seed,its development and retention of color in all season.This include Vermii compost,Cocopeat,Neem cake & other Components to be mixed in the top 150mm layer of root zone.	kgs	3200.00	₹ 927.00		₹ 29,66,400.00
34	MR-44	Rotivate the field from both the directons reversed action to de-weed the entire area and to achieve the final desired levels for the crowned Pitch	Nos	4.00	₹ 1,03,499.00		₹ 4,13,996.00
35	MR-45	Irrigate the proposed area for development so as to encourage the weed to emerge before seedings procedure starts. The irrigation process to be followed by De- Weeding of the field manually/mechanically by the power driven rig weed collector till de-weeding process completes	Nos	90.00	₹ 5,308.00		₹ 4,77,720.00
36	MR-46	Soil testing of different sites to be done for macro,micro & trace element with their recommendations for the grass turf development. Add basal fertilizer does as prescribed by the agronomist or suggested Lab after the test report of the soil, suitable for the seeding process of the coated grass seeds	Nos	8.00	₹ 6,635.00		₹ 53,080.00
37	MR-47	Supply and Seeding with ARDEN - 15 and OECD Blue Tag Certified seed at desired depth and distance	kgs	140.00	₹ 24,287.00		₹ 34,00,180.00
38	MR-48	Cover the seeded area with thin jute fabric roles;irrigate the field while covered with jute fabric.Remove the jute fabric after 2-3 weeks.	sq.mt	11520.00	₹ 84.00		₹ 9,67,680.00
39	MR-49	Growing of grass & feeding the grass with Foliar sprays	Nos.	16.00	₹ 68,004.00		₹ 10,88,064.00
40	MR-50	Spraying herbicides during mid growth of grass and deweeding manually	L/s	1.00	₹ 2,05,670.00		₹ 2,05,670.00
41	MR-51	Potash(only for Seeding)	kgs	656.00	₹ 73.00		₹ 47,888.00
		Football Goal Post : Supply and installation of imported Uprights & Crossbars made from 102mm x 112mm reinforced aluminium with double recess for flush fitting fixings. Reinforced welded aluminium corner joints for improved aesthetics and superior strength, with laser cut internal fixing for exceptionally accurate joints. Injection moulded toughened nylon net clips that won't deteriorate over time. Lock-in T-bar to allow for easy storage of the bottom net bar against upright for pitch maintenance. Reinforced net support system prevents bowing under intense tension. New, heavy duty ratchet winch and webbing strap allows for high-class net shape with the inclusion of a failsafe wire providing 100% security during matches. Lock-in bottom net bar 38mm diameter aluminium bar with ground secure key lock mechanism complete with 4 sockets and whitePolyester powder coated of size 7.32m x 2.44m Set = 2 Goals with 4 x 460mm deep sockets, and net APPROVED BY FIFA.	Pair	1.00	₹ 5,00,000.00		₹ 5,00,000.00
B		TOTAL COST OF FOP SUPPLY AND INSTALLATION OF SYNTHETIC ATHLETIC TRACK (400M) SANDWICH TYPE IAAF CERTIFIED				₹ 3,29,453	₹ 2,94,66,915

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Sl. No.	Ref.	Description of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
43	2.2 vol - III, 2021	2.2 Cleaning and grubbing road including uprooting rank vegetation, grass, bushes, shrubs, saplings and trees girth upto 300mm, removal of stump of tree cut earlier and disposal of service cable materials and stacking of serviceable material to be used or auctioned upto a lead of 1000 meter including removal and disposal of top organic soil not exceeding 150mm in thickness if required and as per relevant clauses of section-200. (a) In area of light jungle	Hectare	0.74	₹ 47,725.00	₹ 35,316.50	
44	2.6.1 Vol II, 2021	Earthwork excavation for foundation, trenches for pipes/cables or in set. by mechanical means/manual means (exceeding 30cm in depth.) including ramming of bottom, dressing of sides, disposal of excavated earth including all lift and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil	Cum	4,440	₹ 151.00	₹ 6,70,440.00	
45	2.16 Vol II, 2021	Filling by available excavated earth (excluding rock) in trenches, plinth, sides of foundation set. in layers not exceeding 20cm in depth, consolidation of each deposited layer by ramming and watering, lead upto 50m and lift upto 1.5 m.. COMPACTED HARD WITH PROCTOR DENSITY 95%)	Cum	4,440	₹ 89.00	₹ 3,95,160.00	
46	3.12 Vol - III 2021	Construction of embankment/subgrade/earth shoulders, as per clause 305 & its sub-clauses, where required but with approved materials/soil like memorandum CBR value not less than 7%/call lead & lifts/c/excavation, cost of watering, compaction by vibratory roller/heavy pneumatic type roller and maintenance of surface during construction to ensure shedding & preventing ponding of water (clause 305.3.6) shaping & dressing (clause 305.3.7), finishing etc. complete but excluding scarifying existing granular/bituminous road surface vide clause 305.6.	Sqmt	7,400	₹ 410.00	₹ 30,34,000.00	
47	4.3 Vol - III 2021	Water Bound Macadam - Providing, laying, spreading and compacting stone aggregate of specific size to water bound macadam including spreading in uniform thickness, hand packing, rolling with vibratory roller 8-10 tonnes in stages to proper grade and camber, applying and brooming requisite type of screening/binding material to fill up the interstices of coarse aggregate, watering and compacting to the required density and as per relevant clauses of section-404 of specifications.					
47.1		(i) Grading - I (63 to 45mm). (a) Using Screening Type-A (13.2mm Agg.)	Cum	925	₹ 1,226.00	₹ 11,34,050.00	
47.2		(ii) Grading - II (53 to 22.4mm). (a) Using Screening Type-B (11.2mm Agg.)	Cum	925	₹ 1,251.00	₹ 11,57,175.00	

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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
48	4.4 Vol- III 2021	Providing,laying ,spreadingand compacting graded stone aggregate to wet mix macadam including premixing the Material with water at OMC in mechanical mix plant carrying mixed Material by tipper to site, laying in uniform layers with pavers in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density and as per relevant clauses of section -406 of the	Cum	2,220	₹ 1,441.00	₹ 31,99,020.00	
49	5.1 Vol- III 2021	Providing and applying primer coat with cationic bitumen emulsion (SS1 grade) on prepared surface of granular base including clearing of road surface and spraying primer at the rate of 0.75kg/sq using mechanical/Manual means and as per relevant clauses of section-502	Sqmt	7,400	₹ 33.00	₹ 2,44,200.00	
50	5.2 Vol- III 2021 (ii)	Providing and applying tack coat with cationic bitumen emulsion (RS-1) using emulsion pressure distributor on the prepared bituminous/granular surface cleaned with mechanical broom and as per relevant clauses of section-503. @0.30kgpersqm (dry & hungry bituminous surfaces/granular surfaces treated with prime seal)	Sqmt	7,400	₹ 14.00	₹ 1,03,600.00	
51	5.12 Vol- III 2021 (i)	Providing and laying seal coat sealing the voids in bituminous surface laid to the specified levels, grade and cross fall using Type A and B seal coats and as per relevant clauses of section-513 with bitumen. Type A (Liquid Seal Coat)	Sqmt	7,400	₹ 55.00	₹ 4,07,000.00	
52	5.3 (ii) Vol- III 2021	Providing and laying bituminous macadam with hot mix plant using crushed aggregates of specified grading premixed with bituminous binder, transported to site, laid over previously prepared surface with mechanical paver finish to the required grade, level and alignment and rolled as per clauses 501.6 and 501.7 to achieve the desired compaction complete in all respects and as per relevant clauses of section-504. (ii) for Grading II(50-75mm	Cum	232	₹ 5,293.00	₹ 12,27,976.00	
53	5.6 (ii) Vol- III 2021	Providing and laying dense bituminous macadam with hot mix plant batch using crushed aggregates of specified grading, premixed with bituminous binder, transporting the hot mix to worksite, laying with mechanical paver finish to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem roller to achieve the desired compaction complete in all respects and as per relevant clauses of section-505. (Lime or cement will be used as filler) (ii) for Grading II(50-75mm thickness) bitumen content 4.5% (VG-30)	Cum	306.64	₹ 6,899.00	₹ 21,15,509.36	


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54	5.21.2 vol II 2021	Providing and laying in position machine batched and machine mixed and machine vibrated design mix concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weight batcher using approved mix design, 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 the Engineer-in-Charge	Cum	2	₹ 5,701.00	₹ 11,402.00	
55	MR-53	IAAF Approved Synthetic Athletics Track SANDWICH system with including line marking and attaining class II certification from IAAF. Supply and installation of European IAAF approved seamless, water impermeable Full PUR running track system. The system should consist of application of 3 in situ installed self levelling layers broadcasted with rubber granules. This system offers athletes maximum comfort and highest available performance and globally used in competitions. The particularity of this system lies in the application of a primer on the asphalt substrate, bottom and middle layers of liquid PU mixed with SBR granules, top layer of Liquid PU mixed as per manufacturer instructions and EPDM broadcasted on top. The system consumption ratio consists of application of primer layer of 0.25 kg/sqm, base layer of SBR granules (1-4mm) with 3kg/sqm mixed with binder 2.2 kg/sqm, middle layer of SBR granules (1-4mm) with 2kg/sqm mixed with binder 2.2 kg/sqm, top wear coat of liquid PU binder with consumption of 2.80 kg/sqm and EPDM granules of 1-4mm broadcasted in the range of 2.6 kg/sqm net. The system should be approved as IAAF class 2 with a certificate and line marking should be done as per the IAAF norms. 8 Lane	Sqmt	7,106	₹ 5,213.00	₹ 3,70,43,578.00	
55.1		(i) Normal Stress Areas surface with a minimum thickness of 13mm minimum of finished track	Sqmt				
55.2		(ii) High Stress Areas with a minimum thickness of 20 mm of finished Track Surface.	Sqmt	269	₹ 5,213.00	₹ 14,02,297.00	
55.3		(iii) High Stress Areas with a minimum thickness of 25 mm of finished Track Surface.	Sqmt	25	₹ 5,213.00	₹ 1,30,325.00	
56	MR-54	Construction of Sand filling in jumping pits; including cost and conveyance of all materials and labour charges to the site to fill the sand in pits and complete finished item as per drawing and as directed by Engineer-in-Charge.	No	4	₹ 77,008.00	₹ 3,08,032.00	
57	MR-55	Construction of Steeplechase pit inside North D portion as per IAAF drawing and as directed by Engineer-in-Charge.	No	1	₹ 29,619.00	₹ 29,619.00	
58		Supplying and fixing of sports equipment material for conducting various event as per IAAF approved.					
58.1	MR-56	Pole vault boxes with cover	Nos	2			
58.2	MR-57	Take off board for long jump and triple jump plus wooden board	Nos	12			
58.3	MR-58	Short put rings	Nos	2			

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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
58.4	MR-59	Hammer cum Discuss RING	Nos	1			
58.5	MR-60	Discuss Ring	Nos	1			
58.6	MR-61	Aluminum Kerbing	set	1			
58.7	MR-62	Water jump hurdle for steeple chase	Nos	1			
58.8	MR-63	hammer cage with socket	set	1			
58.9	MR-64	discuss cage with socket	set	1			
		PATHWAY					
59	11.43 Vol II 2021	Providing and laying 60mm thick factory made cement concrete interlocking paver block of M-30 grade made by block making machine with strong vibratory compaction and of approved size and design/shape laid in required colour and pattern over and including 50mm thick compacted bed of stone dust sand, filling the joints with coarse sand etc. all complete as per the direction of Engineer-in-charge.	Sqmt	822	₹ 612.00	₹ 5,03,064.00	
TOTAL COST OF SYNTHETIC ATHLETIC TRACK						₹ 1,42,37,913	₹ 3,89,13,851

Prat
SITE ENGINEER
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Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
60	2.6.1 Vol II, 2021	DRAINAGE WORK FOR ATHLETIC TRACK Earthwork excavation for foundation, trenches for pipes/cables drains etc. by mechanical means/manual means (exceeding 30cm depth) including ramming of bottom, dressing of sides, disposal of excavated earth including fall and lead upto 50m. Disposed earth to be levelled and neatly dressed. All kinds of soil	M ³	1080.00	₹ 151.00	₹ 1,63,080.00	
61	4.1.3 Vol II, 2021	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work upto plinth level. Cement concrete grade M-15 (Nominal Mix) with 20mm maximum size of stone aggregate	M ³	124.00	₹ 4,755.00	₹ 5,89,620.00	
62	4.1.4 Vol II, 2021	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering All work upto plinth level. Cement concrete grade M-10 (Nominal Mix) with 20mm maximum size of stone aggregate	M ³	10.00	₹ 4,219.00	₹ 42,190.00	
63	5.2.1.2 vol II, 2021	Providing and laying in position machine batched and machine mixed and machine vibrated design mix cement concrete of M-25 grade mixed in a concrete mixer of not less than 0.2 cum capacity and appropriate weight batcher using approved mix design, 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. Above Plinth upto floor 2 level	M ³	160.00	₹ 5701.00	₹ 9,12,160.00	
64	19.1 Vol -II, 2021	Centering and shuttering including strutting, propping, stretching etc. complete for and removal of formwork by sheet plate or plywood shuttering for :					
64.1	19.1.1	Foundations, footings, bases of columns, etc. For mass concrete.	M ²	209.00	₹ 160.00	₹ 33,440.00	
64.2	19.1.2	Walls (any thickness) including attached pilasters, buttresses, plinth and string courses etc.	M ²	54.00	₹ 289.00	₹ 15,506.00	
64.3	19.1.3	Suspended floors, roofs, landings, balconies and access platform	M ²	709.00	₹ 305.00	₹ 2,16,245.00	
65	5.11.4 Vol-II, 2021	Reinforcement for R.C. work including straightening, cutting, bending, placing in position and binding up to floor level including cost of binding wire, wastage and overlaps upto 12mm horizontal/inclined position of reinforcement bars and beams, plinth, chajjas, lintels, upto 4.5m vertical length of reinforcement in wall columns (over lap shall be provided as per requirement of IS:13920) IS:456&SP:34.	Kgs	22000.00	₹ 58.00	₹ 12,76,000.00	

SITE ENGINEER
PDMC-JSCL

CONSTRUCTION MANAGER
PDMC-JSCL

Satyendra Kumar
TEAM LEADER
PDMC-JSCL

Sl. No.	Ref.	Description Of Work	Unit	Qty	Rate	SOR Amount	NON SOR Amount
66	6.1 Vol-II, 2021	Brickwork with well burnt chimney bricks in bullspatent trench kiln manufactured by hot process, crushing strength not less than 40 kg/sqcm and water absorption not more than 15% in foundation and plinth. Cement mortar 1:4 (1 cement : 4 coarse sand)	Cum	300.00	5030.00	₹ 15,09,000.00	
67	13.4.2 Vol-II, 2021	12mm cement plaster finished with floating coat of neat cement of mix : 1:4 (1 cement: 4 sand)	M ²	1906.00	169.00	₹ 3,22,114.00	
68	13.15 Vol-II, 2021	Neat Cement Punning	M ²	1906.00	30.00	₹ 57,180.00	
69	1.0, 1.1 Vol-II, 2021	Transportation By Mechanical means including loading, unloading and stacking where ever necessary: Excavated Earth 5km or Part thereof	Cum	1259.00	148.81	₹ 1,87,351.79	
70	22.6.4 Vol-II, 2021	Providing and laying non-pressure NP2 class (light duty) R.C.C. pipes with collars jointed with stiff mixture of cement mortar in the proportion of 1:2 (1 cement: 2 fine sand) including testing of joints etc. complete : 300 mm dia. R.C.C. pipe	Rmt	50.00	591.00	₹ 29,550.00	
		TOTAL COST OF DRAINAGE WORK				₹ 53,53,537	₹ -

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ENGINEER
PDMC-JSCL

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CONSTRUCTION MANAGER
PDMC-JSCL

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05/01/2022
TEAM LEADER
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