



Talkatora Indoor Stadium, Boxing

GOVERNMENT OF INDIA, MINISTRY OF YOUTH
AFFAIRS AND SPORTS

INFRASTRUCTURE
DETAILS

| Commonwealth Games 2010 |



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LIST OF COMPETITION VENUES

S.No	DISCIPLINE	VENUE	STATUS	AGENCY
1.	Aquatics	S.P. Mukherjee Swimming Pool	Existing (Renovation/Upgradation)	SAI ¹ /CPWD ²
2.	Archery	Yamuna Sports Complex - Prelims	New Outdoor Ranges	DDA ³
3.	Athletics	J.N. Stadium	Existing (Renovation/Upgradation)	SAI/CPWD
4.	Badminton	Siri Fort Sports Complex	New Indoor Hall	DDA
5.	Boxing	Talkatora Indoor Stadium	Existing (Renovation/Upgradation)	NDMC ⁴
6.	Cycling	Velodrome, I.G. Sports Complex	New Indoor Hall	SAI/CPWD
7.	Gymnastics	I.G. Indoor Stadium	Existing (Renovation/Upgradation)	SAI/CPWD
8.	Hockey	MDC National Stadium	Existing (Renovation/Upgradation)	SAI/CPWD
9.	Lawn Bowls	J.N. Sports Complex	New Outdoor Greens	SAI/CPWD
10.	Netball	Thyagaraj Sports Complex	New Indoor Hall	GNCTD ⁵
11.	Rugby	Delhi University	New Outdoor Greens	DU ⁶
12.	Shooting	Dr. Karni Singh Shooting Range	Existing (Renovation/Upgradation)	SAI/CPWD
13.		CRPF Centre, Kaderpur - Big Bore Shooting	New Ranges	CPWD/CRPF ⁷
14.	Squash	Siri Fort Sports Complex	New Indoor Hall	DDA
15.	Table Tennis	Yamuna Sports Complex	New Indoor Hall	DDA
16.	Tennis	R.K. Khanna Tennis Complex	Existing (Renovation/Upgradation)	AITA ⁸
17.	Weightlifting	J.N. Sports Complex	New Indoor Auditorium	SAI/CPWD
18.	Wrestling	I.G. Sports Complex	New Indoor Hall	SAI/CPWD

1 Sports Authority of India

2 Central Public Works Department

3 Delhi Development Authority

4 New Delhi Municipal Corporation

5 Government of National Capital Territory of Delhi

6 Delhi University

7 Central Reserve Police Force

8 All India Tennis Association



LIST OF TRAINING / PRACTICE VENUES

S.No	DISCIPLINE	TRAINING VENUE	STATUS	AGENCY
1.	Aquatics	Siri Fort Sports Complex	Existing (Renovation/Upgradation)	DDA
2.		Yamuna Sports Complex	Existing (Renovation/Upgradation)	DDA
3.		Games Village	New	DDA
4.	Athletics	Thyagraj Sports Complex	New	GNCTD
5.		Chhatarsal Stadium	Existing (Renovation/Upgradation)	GNCTD
6.		Games Village	New	DDA
7.		DU – Polo Ground	New	DU
8.	Archery	Yamuna Sports Complex	New	DDA
9.	Badminton	Siri Fort Sports Complex	Existing (Renovation/Upgradation)	DDA
10.		Saket Sports Complex	New Indoor Hall	DDA
11.	Boxing	Delhi University	New Indoor Stadium	DU
12.	Cycling	Velodrome, IG Indoor Stadium	New Indoor Hall	SAI/CPWD
13.	Gymnastics	I.G Indoor Stadium	Existing (Renovation/Upgradation)	SAI/CPWD
14.		Yamuna Sports Complex (Rhythmic)	Existing (Renovation/Upgradation)	DDA
15.	Hockey	MDC National Stadium Complex	Existing (Renovation/Upgradation)	SAI/CPWD
16.		Yamuna Sports Complex	New	DDA
17.	Lawn Bowls	Delhi Public School, R. K. Puram	New Outdoor Greens	DPS ⁹ /CPWD
18.		Yamuna Sports Complex	New Outdoor Greens	DDA
19.	Net Ball	Thyagraj Sports Complex	New Indoor Hall	GNCTD
20.		Delhi University	New Indoor Hall	DU
21.	Rugby 7s	St. Stephen's College	New Outdoor Greens	DU
22.		Hindu College	New Outdoor Greens	DU
23.		Khalsa College	New Outdoor Greens	DU
24.		Ramjas College	New Outdoor Greens	DU
25.		Kirorimal College	New Outdoor Greens	DU

⁹ Delhi Public School



26.		Sri Ram College	New Outdoor Greens	DU
27.		Daulatram College	New Outdoor Greens	DU
28.		Jamia Millia Islamia University	New Outdoor Greens	JMI ¹⁰
29.	Shooting	Dr. Karni Singh Shooting Range	Existing (Renovation/Upgradation)	SAI/CPWD
30.	Squash	Siri Fort Sports Complex	New Courts	DDA
31.	Table Tennis	Yamuna Sports Complex	New Indoor Hall	DDA
32.		Jamia Millia Islamia University	Existing (Renovation/Upgradation)	JMI
33.	Tennis	R. K. Khanna Stadium	Existing (Renovation/Upgradation)	AITA/DLTA ¹¹
34.		Siri Fort Sports Complex	Existing (Renovation/Upgradation)	DDA
35.	Weight Lifting	Games Village	New Indoor Hall	DDA
36.		Games Village	New Indoor Hall	DDA
37.	Wrestling	Sri Ram College Hall (Women)	Existing (Renovation/Upgradation)	DU
38.		Ludlow Castle Hall (Men)	Existing (Renovation/Upgradation)	GNCTD

In addition to these sports disciplines, competitions will also be held for Elite Athletes with Disability (EAD) in four disciplines viz. (i) Athletics, (ii) Powerlifting, (iii) Table Tennis and (iv) Swimming.

¹⁰ Jamia Millia Islamia University

¹¹ Delhi Lawn Tennis Association



LIST OF MAIN NON-COMPETITION VENUES

ACTIVITY	VENUE	STATUS	AGENCY
1. CWG Delhi 2010 Central Warehouse and Logistics Coordination Centre	Hall No. 2, 3, 4 & 5, ITPO, Pragati Maidan, New Delhi	Existing (Renovation/Upgradation)	OC ¹²
2. Games Family Hotel	Hotel Ashok and Hotel Samrat	Existing (Renovation/Upgradation)	OC / ITDC ¹³
3. Games Operation Centre	7 th Floor, NDMC Tower – II, Opp. Jantar Mantar, Connaught Place, New Delhi	Existing (Renovation/Upgradation)	OC
4. GTCC ¹⁴	Palika Kendra, Near Gole Market, New Delhi	Existing (Renovation/Upgradation)	OC
5. HBC ¹⁵	IBC ¹⁶ , Hall No. 8, 9, 10 & 11, ITPO, Pragati Maidan, New Delhi	Existing (Renovation/Upgradation)	Prasar Bharati & Mo I&B ¹⁷
6. Main Accreditation Centre and Uniform Distribution Centre	Hall No. 7 A-H, ITPO, Pragati Maidan, New Delhi	Existing (Renovation/Upgradation)	OC
7. Press Operations	MPC ¹⁸ , Hall No. 12 & 12-A, ITPO, Pragati Maidan, New Delhi	Existing (Renovation/Upgradation)	PIB ¹⁹ & Mo I&B
8. Residential	Games Village, Near Akshardham Temple, Delhi	New	DDA
9. Volunteers Operation Centre	NDMC Building, Baraat Ghar, Moti Bagh, New Delhi	Existing (Renovation/Upgradation)	OC & GNCTD

¹² Organizing Committee

¹³ Indian Tourist Development Corporation

¹⁴ Games Technical Conduct Centre

¹⁵ Host Broadcasting Centre

¹⁶ International Broadcasting Centre

¹⁷ Ministry of Information And Broadcasting

¹⁸ Main Press Centre

¹⁹ Press Information Bureau



GAMES VILLAGE

Competition Venue	Nil
Training Venue	Athletics, Swimming, Wrestling, Weightlifting
Agency	Delhi Development Authority



Figure 1 : DDA - Games Village Residential

Distance Chart:

Distance from	
Indira Gandhi International Airport	26.4 Km
Approximate Drive Time	58 Mins
Distance from	
ISBT Kashmere Gate	9.4 Km
Approximate Drive Time	22 Mins
Distance from	



Connaught Place	7.6 Km
Approximate Drive Time	18 Mins
Distance from	
JN Stadium	9.5 km
Approximate Drive Time	21 Mins
Distance from	
JN Stadium (Over Barapulla Nalah)	6 km
Approximate Drive Time	13 Mins
Located near Akshardham Temple	



Figure2: DDA Games Village Residential (Night View)



GAMES VILLAGE - PRACTICE AREAS



Figure3: DDA -Games Village Practice Areas

A picturesque site selected on the banks of the river Yamuna. To be created at a cost of ₹ 1034.82 Crores, the Games Village has been underwritten by the government. It has been developed in a Public Private Partnership Mode. Within its immediate vicinity are heritage monuments and historical landmarks. Combined with the dense green natural cover on the sides, it was a relaxing and soothing environment for the athletes and officials. Athletes and Officials from all sports stayed at this one village.

Area : 11.00 Hect.

No. of Flats : 1168

No. of Rooms : 4008

No. of Towers : 34 Towers varying from 6 stories to 9 stories

The Games Village was divided in three main zones, namely, the Residential zone, the International zone and the Operational zone.

The Residential Zone primarily consisted of Residential Units for athletes; Sports Information Centre;



Chef de Mission Auditorium; Main Dining Hall; Casual Dining Hall; Polyclinic; Recreational Facilities: Fitness Centre and Religious Centre.

The Residential Zone was the largest Zone within the Commonwealth Games Village. It is a secure zone within the Village, where residents undertook their daily routine without interruption from Media or Guests. The Residential buildings provided accommodation for Athletes and Officials.



Figure4: Games Village Dining Hall

The accommodation had high standards of ambience and construction. The dining hall was a unique facility, providing suitable hot and cold food of good nutritional quality and variety. The Food selection will take into account, the cultural and ethnic groups at the Games (for example Indian, Asian, European and Pacific Basin nationalities)

The International Zone comprised mainly of Main Entry area; Village Media Centre; Entertainment Facilities; and the Welcome Ceremony Plaza.



The International Zone was the ‘gathering’ place within the Commonwealth Games Village. It accommodated Commercial and Recreational services for visitors and residents of the Village. The commercial area was for residents to purchase essential items without leaving the Village. Facilities for CGA Welcome Ceremonies and Media interviews were provided in the International Zone.

The Operational Zone housed the service areas like :

- ◁ Village Operations Centre; Security Command Centre; Logistics and Technology Centre; Athlete Transport Mall; and External Parking etc.
- ◁ The entire complex was designed in such a way so as to make it usable at the end of the games for residential purposes.
- ◁ The Games Village has set high standards of design and construction, based on best international practices.
- ◁ The sense of being part of a cohesive integrated community for the duration of the Games, the ease and efficiency of circulation, as well as the quality of accommodation, recreation, dining and support services made the stay of visitors a cherish able experience.
- ◁ In order to provide efficient, high quality facilities for a green legacy, the precinct was designed and constructed to maximize energy efficiency. The design incorporated passive design principles such as natural ventilation, natural light, insulation, energy efficient appliances, light fittings. These interventions will made the facilities of the Village energy efficient and environment friendly.

Room Analysis:

UNIT	TYPE OF	NO. OF UNITS	NO. OF ROOMS
2	Bedrooms	31	62
3	Bedrooms	765	2295
4	Bedrooms	209	836
5	Bedrooms	163	815
	Unit Total	1168	4008



Details:

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> ◁ Total area of the plot - 5,92,800 sq. m. ◁ Basement parking 45,000 sq. m. ◁ Total plinth area 2,15,000 sq. m. (2,10,000 for residential & 5,000 practice facilities) ◁ R.C.C– Framed structure for Residential & fitness centre and steel columns and trusses for the training hall . ◁ Flooring Work - Granite, Vitrified Tiles & Kota Stone ◁ Maple Wooden Flooring in the training hall for weightlifting and wrestling. ◁ HVAC– Centralized AC for Practice facilities and VRV system of AC for residential zone. ◁ Fire Detection & Fighting Work – Wet rising system for fire fighting with call back system.
Specification Of Play Areas	<p>COMPETITION AREAS:</p> <ul style="list-style-type: none"> ◁ Not applicable <p>TRAINING AREAS :</p> <ul style="list-style-type: none"> ◁ Maple Wood Flooring in the training hall for wrestling and weightlifting facilities. ◁ Synthetic Track 400 m X 8 lane ◁ Covered Swimming Pool of 50 mtrs. X 25 mtrs. X 1.35 mtr.
Seating Capacity	<ul style="list-style-type: none"> ◁ Spectator Seating 1000 ◁ VIP Seating (Grand Stand) Not applicable ◁ Press Seating Not applicable ◁ Provision for Temporary Seating Not applicable
Floor Wise Facilities	<ul style="list-style-type: none"> ◁ Basement – Car Parking for 2500 Vehicles but not to be used during Games Mode. It is for legacy use. ◁ Ground Floor (Plaza Level) Not applicable ◁ First Floor (Concourse Level) Not applicable



SPECIFICATION	DETAILS
	<ul style="list-style-type: none"> ◁ Second Floor Level (Upper Level) Not applicable
Facilities In Adjacent Blocks	<ul style="list-style-type: none"> ◁ Temporary Polyclinic in the Club Building in the Residential Zone
Parking Facilities	<ul style="list-style-type: none"> ◁ Basement parking Car parking for 2500 Vehicles but not to be used during Games Mode. It is for legacy use. ◁ Surface parking 600 Cars ◁ Temporary parking All surface parking shall be temporary.
Green Building Concept	<ul style="list-style-type: none"> ◁ Orientation North South. ◁ Rain water harvesting. ◁ Sewage Treatment plant with membrane technology. ◁ GridInteractive One Megawatt Solar energy. ◁ Heat Insulation <ul style="list-style-type: none"> - Walls with AAC concrete blocks. - Glazing with double Insulated glass. - Thermal insulation on roof & wall. ◁ Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture. - Dual knob flushing cisterns.
Total Approved Project Cost	<ul style="list-style-type: none"> ◁ 1350 crores
Funding Agency / Department / Ministry	<ul style="list-style-type: none"> ◁ Residential Zone on Public Private Partnership (PPP) mode to be raised by the Project Developer. ◁ Ministry of Urban Development, Government of India for other infrastructure works.
Architects	<ul style="list-style-type: none"> ◁ Consortiums led by M/s. Suresh Goel & Associates for works other than Residential ◁ For Residential Zone M/s. Sikka Associates.
Contractors	<ul style="list-style-type: none"> ◁ For Residential Zone M/s. Ahluwalia Contracts (I) Ltd. ◁ For flyover M/s. Gammon India Ltd.



SPECIFICATION	DETAILS
	For Practice Facilities/s.Sportina Payce Infrastructure Pvt. < For other works Misc. Contractors.



SAKET SPORTS COMPLEX

Competition Venue	Nil
Training Venue	Badminton
Agency	Delhi Development Authority



Figure5: DDA - Saket Sports Complex

Distance Chart:

Distance from	
Indira Gandhi International Airport	19.8 Km
Approximate Drive Time	47 Mins
Distance from	
ISBT Kashmere Gate	19.4 Km
Approximate Drive Time	48 Mins
Distance from	
Connaught Place	15.9 Km
Approximate Drive Time	42 Mins



Distance from	
Jawaharlal Nehru Stadium	7.8 Km
Approximate Drive Time	21 Mins
Distance from	
Games Village	17 Km
Approximate Drive Time	41 Mins
Located near GM Modi Hospital	



SIRI FORT SPORTS COMPLEX

Competition Venue	Badminton, Squash
Training Venue	Badminton, Squash, Swimming, Tennis
Agency	Delhi Development Authority



Figure 6: DDA - Siri Fort Sports Complex

Distance Chart:

Distance from	
Indira Gandhi International Airport	17.8 Km
Approximate Drive Time	42 Mins
Distance from	
ISBT Kashmere Gate	18.1 Km
Approximate Drive Time	46 Mins



Distance from	
Connaught Place	13.2 Km
Approximate Drive Time	36 Mins
Distance from	
Jawaharlal Nehru Stadium	4.6 Km
Approximate Drive Time	13 Mins
Distance from	
Games Village	14.5 Km
Approximate Drive Time	36 Mins
Located near Outub Minar	

Details:

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> < Total area of the plot - 109700 sq. m.. < Basement area - 27401 sq. m.. < Total plinth area - 42160 sq. m.. < R.C.C Structure in Rectangular Shape Building of Squash and Badminton and Central Arena in an arch. The building is divided in 3 portion i.e. Squash (Sector-I), Badminton (Sector-II) and Central Arena in between both Sectors. < Flooring Work. Granite in Gallery and Ceramic Tiles, Carpet and Carpet Tiles in rooms and Toilets alongwith Falls ceiling. Insulated Facade system for external finishing. The part of circulated area around the building with Kota Stone and Red sand stone etc. with Landscaping and plantation of different species. < Ceiling with Steel Deck Roofing type of Colour Bond Ultra RXW finished. < HVAC, Fire Detection & Fighting Work including Plumbing work.
Specification Of Play	Competition Areas : (Squash)



SPECIFICATION	DETAILS
Areas	<ul style="list-style-type: none"> < There are 6 + 4 practice courts and 1 match court < Wooden Flooring in the Practice & Show Courts as per requirement of WSF. < All the courts are of Glass Walls as per requirement of WSF. < Aluminum Accousting Ceiling i.e. Ripple Foil Sisalation in FOP area. < The Central Match Court shall be shifted to Practice Courts after Games. <p>Competition Areas : (Badminton)</p> <ul style="list-style-type: none"> < There are 3 Nos. practice courts and 5 Nos. match court. < Wooden Flooring in the Practice & Show Courts as per requirement of WBF and OC. < Aluminum Accosting Ceiling i.e. Ripple Foil Sisalation in FOP area.
Seating Capacity	<p>(Squash Competition)</p> <ul style="list-style-type: none"> < Total Seating – 4200. < Spectator Seating – 3558. < Games Family Seating – 108. < Athletic Seating – 408. < Press Seating – 96. < Phys. Challenge Seating – 30. <p>(Badminton Competition)</p> <ul style="list-style-type: none"> < Total Seating – 5000. < Spectator Seating – 4257. < Games Family Seating – 210. < Athletic Seating – 315. < Press Seating – 168. < Phys. Challenge Seating – 50. <p>Provision for Temporary Seating 2028 already included in the above</p>
Floor Wise Facilities	<ul style="list-style-type: none"> < Basement – Car Parking for 804 Nos. vehicles, Fire Tanks, STP, AC



SPECIFICATION	DETAILS
	<p>Plant, DG Set Room, Kitchen (legacy mode) and Plant Room etc.</p> <ul style="list-style-type: none"> ◁ Ground Floor (Squash and Central Arena) Café area, Kitchen café, Dropping control, Medical reception, Massage Physic, Racquet stringing Sports information, Athletes Lounge, official Lounge, Plant room, Competition management offices, Venue Technology operations, Venue operation / Management Venue owner office, sponsor show casting and sports store, Stroller Store Venue First Aid facilities, Fire Control Room, Kiosk, Store, Dispensary, Toilets. ◁ Sector- 2 – Competition Management and Federation offices, Commonwealth Sports Federation Office. Result Room, Dropping Centre, Medal Ceremonies, Poddium Store, Medical Room, Look of Games, Athletes Lounge, Sports information, Massage and Physic, Official Lounge, Meeting Plant, Competition Management, Kiosk, Cleaner Store, Catering kitchen, Plant pre function space, toilets. ◁ First Floor (Sector I) – Clearers Store, Work force break out operation, Games family Lounge, Catering, Plant Room, Waiting area. ◁ Central Arena Press Conference Room, Venue Press Centre, Police Security Command Centre. ◁ Sector- II – Media Lounge, Canteen office, Protocol assistance, Plant Room, Games Family Lounge, Work Force Breakout, Legacy Room, Restaurant. ◁ Second Floor Level (Sector I) – Plant Room ◁ Central Arena Plant Room ◁ Sector- II – Plant Room.
Facilities In Adjacent Blocks	Up Gradation of Siri Fort Sports Complex for Training Venue.
Parking Facilities	<ul style="list-style-type: none"> ◁ Basement parking 804 ◁ Surface parking 300



SPECIFICATION	DETAILS
Green Building Concept	<ul style="list-style-type: none"> ◁ Rain water harvesting. ◁ Effluent Treatment Plant. ◁ Solar Pre-Heat System. ◁ Sola Tube System. ◁ Re uses of treated water for Horticulture ◁ Heat Insulation <ul style="list-style-type: none"> - External Façade with insulations. - Glazing with double Insulated glass. - Thermal insulation on roof. ◁ Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture. - Dual knob flushing system.
Total Approved Project Cost	` 329.00 Crores for Civil and Electrical Works.
Funding Agency / Department / Ministry	Ministry of Urban Development, Government of India.
Consultants	M/s Peddle Thorp Melbourne Pvt. Ltd., and M/s SMEC International Ltd
Architects	DDA
Contractors	M/s B. E. Billimoria & Co. Limited is the main agency in addition specialized agencies engaged by Electricals Wings.



YAMUNA SPORTS COMPLEX

Competition Venue	Table Tennis, Archery
Training Venue	Table Tennis, Archery, swimming, Lawn Bowls, Gymnastics(Rhythmic)
Agency	Delhi Development Authority



Figure7: DDA Yamuna Sports Complex

Distance Chart:

Distance from	
Indira Gandhi International Airport	31.2 Km
Approximate Drive Time	70 Mins
Distance from	
ISBT Kashmere Gate	11.1 Km



Approximate Drive Time	30 Mins
Distance from	
Connaught Place	14.4 Km
Approximate Drive Time	40 Mins
Distance from	
Jawaharlal Nehru Stadium	14.8 Km
Approximate Drive Time	40 Mins
Distance from	
Games Village	8.7 Km
Approximate Drive Time	20 Mins
Located near Surajmal Vihar	

Details:

SPECIFICATION	DETAILS
Structural Details	TABLE TENNIS INDOOR STADIUM
	< Total area of the plot - 26000 sq. m.
	< Basement area - 26000 sq. m.
	< Total plinth area - 43765 sq. m.
	< R.C.C Structure with Structural Steel Truss with double sheet roofing with insulation up to 2 nd floor
	< Flooring Work like Granite, Epoxy, Vinyl Floor, Carpet etc.,
	< Maple Wooden Flooring in Show Court and Match Court
	< Sports Lighting
	< HVAC, Fire Detection & Fighting Work
	ARCHERY QUALIFYING
	< Total area of the plot - 40000 sq. m.
	< Basement area - Nil sq. m.
	< Total plinth area - 4274 sq. m.
	< R.C.C Structure with Tensile fabric Roof,



	<ul style="list-style-type: none"> ◁ Flooring Work i.e. Granite, Ceramic Tiles & Kota Stone <p>HVAC, Fire Detection & Fire- fighting Work</p>
Specification of Play Areas	<p>TABLE TENNIS INDOOR STADIUM</p> <p>Competition Areas:</p> <ul style="list-style-type: none"> ◁ Wooden Flooring in the Match Courts & Show Courts. ◁ Synthetic surface in FOP Area. <p>Training Areas :</p> <ul style="list-style-type: none"> ◁ Synthetic surface in FOP Area. ◁ Wooden Flooring in the Practice Court. <p>ARCHERY QUALIFYING</p> <p>Competition Areas:</p> <p>Natural Grass for Archery Field of play.</p>
Seating Capacity	<p>TABLE TENNIS INDOOR STADIUM</p> <ul style="list-style-type: none"> ◁ Spectator Seating Show court - 2026 ◁ VIP Seating (Grand Stand) – 121 ◁ Games family- 192 ◁ Press Seating - 222 ◁ Provision for Athletes - 200 ◁ Provision for disable seats – 29 ◁ Spectator Seating match Court -1093 ◁ Physically challenged seating in Match Court-18 <p>ARCHERY QUALIFYING</p> <ul style="list-style-type: none"> ◁ Spectator Seating - 1160 ◁ VIP Seating (Grand Stand) – 180 ◁ Athletes- 32 ◁ Press Seating – 96 ◁ Disabled seating - 10 ◁ Provision for Temporary Seating - 204
Floor Wise Facilities	<p>TABLE TENNIS INDOOR STADIUM</p>



	<ul style="list-style-type: none"> < Basement– Car Parking for 504 Vehicles, kitchen, E.S.S., D.G.Set Rooms, Plant Rooms, retractable spectators seating to show court, Two show Court etc., < Ground Floor– Ten Practice Courts, Eight Match Courts &, Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, , Venue Management, Store & Spectator Seating etc. < First Floor (Concourse Level) Spectator Seating, Merchandise, Lounge, Spectator Concourse & External Concourse. < Second Floor Level (Upper Level) Media Center, Games Family Lounge, Games Family Seating & VVIP Seating. <p>ARCHERY QUALIFYING</p> <ul style="list-style-type: none"> < Ground Floor (Plaza Level) Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, Venue Management, Store & Spectator Seating etc. < First Floor (Concourse Level) Spectator Seating, Merchandise, Lounge, Spectator Concourse & External Concourse. < Second Floor Level (Upper Level) Media Center, Games Family Lounge, Games Family Seating & VVIP Seating.
<p>Facilities In Adjacent Blocks</p>	<p>TABLE TENNIS INDOOR STADIUM</p> <p>Media Broadcasting Compound.</p> <p>ARCHERY QUALIFYING</p> <p>Like some Facility Block / Building etc.</p>
<p>Parking Facilities</p>	<p>TABLE TENNIS INDOOR STADIUM</p> <ul style="list-style-type: none"> < Basement parking 504 Cars < Surface parking only for VVIP, Emergency & Media. < Temporary parking at Vivek Vihar for 4000 Cars <p>ARCHERY QUALIFYING</p>



	<ul style="list-style-type: none"> ◁ Surface parking 500 Cars
Green Building Concept	<p>TABLE TENNIS INDOOR STADIUM</p> <ul style="list-style-type: none"> ◁ Orientation North. ◁ Rain water harvesting. ◁ Effluent Treatment Plant. ◁ CFL lighting. ◁ Sola tubes are used for inside illumination of galleries etc. ◁ Solar Cells. ◁ Fly ash Bricks are using to disposed the powerhouse fl ◁ Heat Insulation <ul style="list-style-type: none"> - Walls with hollow concrete blocks/Cavity walls. - Glazing with double Insulated glass. - Thermal insulation on roof & wall. ◁ Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture. - Dual knob flushing cisterns. <p>ARCHERY QUALIFYING</p> <ul style="list-style-type: none"> ◁ Orientation North . ◁ Rain water harvesting. ◁ Effluent Treatment Plant. ◁ Grid Interactive One Megatt Solar energy. ◁ Heat Insulation <ul style="list-style-type: none"> - Glazing with double Insulated glass. - Thermal insulation on roof & wall. ◁ Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture.
Innovative Features	ARCHERY QUALIFYING



	Semicircular building with tensile fabric roofing
Total Approved Project Cost	TABLE TENNIS INDOOR STADIUM ₹ 265 Crores ARCHERY QUALIFYING ₹ 20 Crores
Funding Agency / Department / Ministry	TABLE TENNIS INDOOR STADIUM Ministry of Urban Development, Government of India. ARCHERY QUALIFYING Ministry of Urban Development, Government of India.
Consultants	TABLE TENNIS INDOOR STADIUM PTA ARCHERY QUALIFYING GSA, Australia
Architects	TABLE TENNIS INDOOR STADIUM SMEC ARCHERY QUALIFYING ABGSA
Contractors	TABLE TENNIS INDOOR STADIUM M/sB.E.Billimoria & Co. Ltd. ARCHERY QUALIFYING M/sBrahamputra Infrastructure Ltd.



KARNI SINGH SHOOTING RANGE

Competition Venue	Shooting for 10m, 25m, 50m & Finals , trap and skeet with finals
Training Venue	Shooting for 10m, 25m, 50m & Finals , trap and skeet with finals
Agency	Central Public Works Department



Figure8: CPWD- Karni Singh Shooting Range

Distance Chart:

Distance from	
Indira Gandhi International Airport	23.8 Km
Approximate Drive Time	62 Mins



Distance from

ISBT Kashmere Gate	25.4 Km
Approximate Drive Time	65 Mins

Distance from

Connaught Place	22 Km
Approximate Drive Time	60 Mins

Distance from

Jawaharlal Nehru Stadium	12.9 Km
Approximate Drive Time	32 Mins

Distance from

Games Village	18.1 Km
Approximate Drive Time	49 Mins

Located near Suraj Kund Lake

Details

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> < Total area of the plot - 2,93,063 sq. m. < Total Built up area - 25,000 sq. m. < Green Area - 2,00,000 sq. m. < R.C.C Structure < Flooring Work i.e. Granite, Vitrified Tiles & Kota Stone < Single skin Roofing < HVAC, Sports Lighting, PA System, Lifts, Fire Detection & Fire- fighting Work < External development



Specification Of Play Areas	<p>Competition Areas:</p> <ul style="list-style-type: none"> ◁ PVC Flooring in Shooters area of 10M, 25M, 50M & Final range. RCC floor in Trap & Skeet ◁ Grassing in between target and FOP except in 10 m range.
Seating Capacity	<ul style="list-style-type: none"> ◁ Spectator Seating 795 ◁ Athletes 950 ◁ Games family, Media etc 755
Floor Wise Facilities	<ul style="list-style-type: none"> ◁ Ground Floor– Athletes Lounge, Change Rooms, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Management, Store etc. ◁ First Floor- Spectator Seating, Lounge, Spectator Concourse & External Concourse.
Facilities In Adjacent Blocks	<p>Armory for arms storage.</p>
Green Building Concept	<ul style="list-style-type: none"> ◁ Orientation North South. ◁ No wood in Door/Window ◁ Rain water harvesting. ◁ Minimum hardscaping. ◁ VRV system used in airconditioning for energy saving ◁ Piping/ducting has environment friendly thermal insulation. ◁ Ozone friendly refrigerents. ◁ Variable speed drives for AHU ◁ IBMS ◁ Heat Insulation <ul style="list-style-type: none"> - Glazing with double Insulated glass. - Thermal insulation on ceiling. - Cavity walls at some place.
Innovative Features	<p>All buildings has north-south orientation. For energy efficiency thermal</p>



	insulation at ceiling and double insulated glazing is used.
Total Approved Project Cost	₹ 149 Crore
Funding Agency / Department / Ministry	Ministry of Youth Affairs And Sports, Government of India
Consultants	M/s Consulting Engineering Services (India) Pvt. Ltd.
Architects	M/s Consulting Engineering Services (India) Pvt. Ltd.
Contractors	M/s Era Infra Engineering Ltd M/s JMC Projects (I) Ltd



SPM SWIMMING POOL COMPLEX

Competition Venue	Nil
Training Venue	Athletics, Swimming,
Agency	Central Public Works Department



Figure9: CPWD-SPM Swimming Pool

Dr. Shyama Prasad Mukherjee Swimming Pool Complex was constructed in 1982 to hold Asian Games. For the forthcoming Commonwealth Games 2010 the existing swimming pool complex has now been upgraded and renovated with the latest state of art facilities so as to meet the international standards required for hosting world class aquatic events. With a total seating capacity of 5000 spectators, the stadium now has the largest cohestrand supported, breathable, elliptical shaped aluminum roof with span of 150m x 130m, which is first of its kind in the world. The stadium will host other multipurpose activities during legacy period. The stadium is the largest covered aquatic stadium in the country having



Olympic sized racing and diving pools with a six lanes warm up pool. The work was executed by Central Public Works Department (CPWD), the premiere construction agency of the Government of India for the venue owner Sports Authority of India.

Distance Chart:

Distance from	
Indira Gandhi International Airport	18.3 Km
Approximate Drive Time	39 Mins
Distance from	
ISBT Kashmere Gate	8.2 Km
Approximate Drive Time	21 Mins
Distance from	
Connaught Place	4.1 Km
Approximate Drive Time	11 Mins
Distance from	
Jawaharlal Nehru Stadium	8.5 Km
Approximate Drive Time	21 Mins
Distance from	
Games Village	10.4 Km
Approximate Drive Time	25 Mins
Located near Talkatora Garden	

Details:

SPECIFICATION	DETAILS
Structural Details	< Total area of the plot - 49088.41 sq. m.
	< Construction Area - 14867.83 sq. m.
	< Total green area - 10405.50 sq. m.
	< R.C.C & Steel Structure of oval indoor stadium with insulated n roof



	<ul style="list-style-type: none"> ◁ Flooring Work i.e. Granite, Vitrified Tiles & Kota Stone ◁ Field of play area to be developed as per FINA recommendation ◁ RCC supporting structure with deep pile foundation for roof. ◁ High grade Structural steel frame structure for internal floors, seating tiers ◁ HVAC, Fire Detection & Fire Fighting Work, sports lighting, public address system.
Specification Of Pool Areas	<p>COMPETITION AREAS:</p> <ul style="list-style-type: none"> ◁ Olympic Size 10 lane swimming pool of size 26m x 50m x 2 m ◁ Diving pool of size 24.9m x 24.9 x 5m <p>TRAINING AREAS :</p> <ul style="list-style-type: none"> ◁ Lane warmup pool of size 16m x 50m x 2m below western seating tiers.
Seating Capacity	<ul style="list-style-type: none"> ◁ Seating capacity for the stadium is 5134 ◁ Spectator Seating 3397 nos ◁ VIP Seating (Grand Stand) 1741 nos including accredited seating follows <ul style="list-style-type: none"> - Athletes seating 734 nos - Games family seating 700 nos. (8 nos wheel chair locations) - Press Seating 283 nos ◁ Provision for Temporary Seating
Floor Wise Facilities	<ul style="list-style-type: none"> ◁ Basement water storage tanks, filtration plant and balancing tanks, viewing gallery ◁ Ground Floor (Plaza Level) One warm up pool,, Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, Venue Management, Store & electrical services rooms etc. ◁ First Floor (Concourse II) level <ul style="list-style-type: none"> - Spectator Seating, Merchandise, Lounge, Spectator Concourse & External Concourse on eastern side.



	<p>-Accredited seating (VIP, Games Family, Athlete & Media), VIP & Media Center, Sports Federation, OC Offices on Western Side</p> <ul style="list-style-type: none"> ◁ Second Floor Level (Upper level) <p>Spectator Seating, Merchandise, Lounge, Spectator Concourse & External Concourse on eastern side.</p> <p>-Accredited seating (VIP, Games Family, Athlete & Media) on western side</p>
Facilities In Adjacent Blocks	Talkatora garden adjacent to eastern boundary
Parking Facilities	<ul style="list-style-type: none"> ◁ Basement parking NIL ◁ Surface parking only 10 nos VVIP Cars, 5 Nos Athlete Bus, 50 nos Technical officials cars ◁ Temporary parking Nil
Green Building Concepts	<ul style="list-style-type: none"> ◁ Orientation North South. ◁ Rain water harvesting of 13000 m2 roof water discharge. ◁ Effluent Treatment Plant. N.A. ◁ Heat Insulation <ul style="list-style-type: none"> - Glazing with double Insulated glass. - Thermal insulation on roof & wall. ◁ Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture. - Dual knob flushing cisterns. ◁ Proper Selection of Low energy glass for facade to cut off heat. ◁ Use of Ozone friendly refrigerants in high efficiency HVAC system. ◁ Use of solar water heating ◁ Sensor fitted urinals & washbasins ◁ Energy efficient T5 and CFL lamps ◁ Light in corridors with dimmable features ◁ Central air-conditioning with 5 Nos. Energy efficient 390 TR screw chillers with VFD to maintain the required conditioning in pool area, seating area



	<p>and technology area.</p> <ul style="list-style-type: none"> ◁ Heat Recovery wheels provided at AHUs for fresh air ◁ Building Management System for HVAC
Innovative Features	<p>The venue has incorporated the passive design principles such as natural ventilation, natural light and insulation wherever possible. To achieve a higher level of thermal and sound comfort and energy efficiency, overhanging eaves projection supported on solid wall are proposed to shade the glass facade. The glass facade is further protected from rain by providing horizontal louvers at upper level. The under deck is provided with spray on application for efficient thermal and sound insulation. The site is located on the ridge and care has been taken so as to save large areas of green space to maintain ecological sustainability. Rain water harvesting system which will serve for Talkatora gardens.</p>
Total Approved Project Cost	₹ 377 Crores
Funding Agency / Department / Ministry	Ministry of Youth Affairs and Sports, Government of India
Consultants	<ul style="list-style-type: none"> ◁ M/s Consulting Engineers Services (India) Limited (JV) 5th floor, 57 Manjusha Building, Nehru Place, New Delhi ◁ In association with Tensys, Gmp gmbh & Tech GmbH ◁ M/s. Tensys (Quality Assurance Consultant)
Architects	M/s Consulting Engineers Services (India) Limited (JV) 5 th floor, 57 Manjusha Building, Nehru Place, New Delhi
Contractors	<ul style="list-style-type: none"> ◁ M/s. Ahluwalia Contracts (India) Limited (Main Agency) ◁ M/s.Fressynet International & Cie (Cohestrands) ◁ M/s. Kalzip India Ltd. through M/s Inter Touch (Roof) ◁ M/s Astral India Ltd. (Filtration Plant)



	<ul style="list-style-type: none">< M/s. Sudhir Power Projects Pvt. Ltd.(DG Sets & Electricals)< M/s. Voltas Limited (HVAC)< M/s. Firepro Systems Pvt. Ltd.(Fire Fighting & Fire Alarm)< M/s. Kone Elevator (India) Pvt. Ltd. (Lifts)< M/s. Philips India (P) Ltd. (Sports Lighting)< M/s. HTech Audio Systems Pvt. Ltd. (PA. System)< M/s. Power House (U.P.S.)< M/s. Shapoorji Pallonji & Co. Ltd. (Seats)< M/s. Superior Furnitures (VIP Seats)< M/s. Design Dialogues India Pvt. Ltd. (Signages)
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INDIRA GANDHI SPORTS COMPLEX

Competition Venue	Wrestling, Gymnastics, Cycling
Training Venue	Gymnastics
Agency	Central Public Works Department



Figure 10: CPWD Indira Gandhi Sports Complex

Distance Chart:

Distance from	
Indira Gandhi International Airport	23.6 Km
Approximate Drive Time	53 Mins



Distance from

ISBT Kashmere Gate	6.6 Km
Approximate Drive Time	17 Mins

Distance from

Connaught Place	4.8 Km
Approximate Drive Time	13 Mins

Distance from

Jawaharlal Nehru Stadium	6.9 Km
Approximate Drive Time	16 Mins

Distance from

Games Village	4.2 Km
Approximate Drive Time	10 Mins

Located near Raj Ghat

Indira Gandhi Indoor Stadium of Delhi is situated in the Indraprastha Estate in the eastern part of the city. Built in the year 1982 to host the indoor sports events of the Asiad Games, it is spread over an area of 102 acres. From the time Indira Gandhi Indoor Stadium was constructed, it has undergone numerous renovations and restorations. The stadium has been divided into two equal halves by a soundproof and fireproof synthetic wall. The facilities at the Indira Gandhi Indoor Stadium of New Delhi include a fully air-conditioned main indoor arena. Also, the stadium has been equipped with intricate audio and lighting systems, which has made it adequate for High Definition Television (HDTV) transmission.

The Stadium which held the Wrestling competition during the Commonwealth Games 2010, will now also host other multipurpose activities. It is a fully covered and air-conditioned stadium with a seating capacity of 6000 and is provided with facilities of international standard including 2200 Lux Level Sports lighting system, Public address system and Hard Maple Wood Sports Flooring. The stadium construction work has been executed by Central Public Works Department (CPWD), the premier construction agency for the Government of India, on behalf of the venue owner, Sports Authority of India.



Details

SPECIFICATION	DETAILS
Structural details	<p>CYCLING VELODROME</p> <ul style="list-style-type: none"> ◁ Total area of the plot - Part of 89 acre plot of I.G. stadium complex. ◁ Basement area - 600sq. m. ◁ Total plinth area - 1750sq. m. ◁ R.C.C & steel Structure of elliptical stadium with insulated metal sheet roof. ◁ Flooring Work i.e. Granite, Vitrified Tiles & Kota Stone ◁ R.C.C. supporting structure with deep pile foundation for roof. ◁ HVAC, Fire Detection & Fire- fighting Work – ◁ Sports lighting & P.A. System
	<p>WRESTLING STADIUM</p> <ul style="list-style-type: none"> ◁ Total area of the plot - Part of 89 acre plot of I.G. stadium complex. ◁ Basement area - NIL ◁ Plinth area at GF - 10778 sq. m. ◁ Total built up area - 25099 sq. m. ◁ Ground plus two storey building with RCC framed structure having elliptical shape in plan. ◁ Flooring Work i.e. Granite, Vitrified Tiles & Kota Stone ◁ Maple Wooden Flooring in Central Arena, warm-up hall ◁ Roof :- Part with RCC slab and part with steel structure truss having span 148 mt. with secondary truss of 37 mt. spans. followed by double skin insulated roofing. ◁ HVAC, Fire Detection & Fire- fighting Work



<p>Specification of playing area</p>	<p>CYCLING VELODROME</p> <p><u>Competition Areas:</u></p> <ul style="list-style-type: none"> Permanent timber cycling track of 250metre length 7.00 m wide <p>WRESTLING STADIUM</p> <p><u>Competition Areas:</u></p> <ul style="list-style-type: none"> Mapple Wood Flooring in the arena & warm-up areas. 3 Nos. Wrestling matches mats. <p><u>Warm-up Areas :</u></p> <ul style="list-style-type: none"> Mapple Wood Flooring in the warm-up area. 6 Nos. Wrestling practice mats. <p>GYMNASTICS STADIUM</p> <p>Podium over wooden playing area of 78m</p>
<p>Seating Capacity</p>	<p>CYCLING VELODROME</p> <p>Seating capacity for the stadium = 3800</p> <ul style="list-style-type: none"> Spectator Seating = 3400 VIP Seating (Grand Stand) } = 400 Press Seating etc. } <p>WRESTLING STADIUM</p> <ul style="list-style-type: none"> Spectator Seating } Total Capacity = 7486Nos. VIP Seating (Grand Stand) } Press Seating } Not specified <p>By the consultant yet</p> <p>GYMNASTICS STADIUM</p> <p>16000 spectators (approx.)</p>
<p>Floorwise facilities</p>	<p>CYCLING VELODROME</p> <ul style="list-style-type: none"> Basement for ambulance & athletes entry to arena Ground Floor (Plaza Level) Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, Venue Management, Store & Spectator Seating etc. <p>First Floor (Concourse Level) Spectator Seating, Games family entry</p>



	<p>WRESTLING STADIUM</p> <ul style="list-style-type: none"> ◁ Ground Floor (Plaza Level) Warm-up (6 mats), Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Venue Management, Spectator Seating, Beverages, equipment storage, press conference, light and sound control, result processing & printing room etc. ◁ First Floor (Concourse Level) Organizing committee office, media & games family lounges, security area, medical first aid, spectator concourse and food & beverages. ◁ Second Floor Level (Upper Level) Spectator lounge, temporary seating, storage and AHUS. <p>GYMNASTICS STADIUM</p> <ul style="list-style-type: none"> ◁ At Ground level (0.00) Wooden playing arena of 78m diameter. Athlete seating, games family seating and all other facilities like media, photography etc. related to competition. ◁ At 3.90m level Spectators seating along with canteen facility and toilets. ◁ At 8.10m level Spectators seating along with canteen facility and toilets. ◁ At 18.60m level Spectator seating with lounges for different activities
Facilities in Adjacent blocks	<p>CYCLING VELODROME</p> <p>Substation and chiller unit for Velodrome.</p> <p>WRESTLING STADIUM</p> <p>Sub Station Building</p>
Parking facilities	<p>CYCLING VELODROME</p> <ul style="list-style-type: none"> ◁ Basement parking - NIL ◁ Surface parking - Yes ◁ Temporary parking - Yes <p>WRESTLING STADIUM</p> <p>Surface parking for VVIP's only.</p>
Green building concept	<p>CYCLING VELODROME</p> <ul style="list-style-type: none"> ◁ Orientation – North South. ◁ Rain water harvesting. – Not applicable



	<ul style="list-style-type: none"> < Effluent Treatment Plant. – Not applicable < Grid Interactive One. < Heat Insulation - <ul style="list-style-type: none"> - More than 50% external walls are cavity walls. - Glazing with double Insulated glass. - Thermal insulation on roof & wall. < Conservation of water - <ul style="list-style-type: none"> - Dual system domestic & flushing water line. <p>WRESTLING STADIUM</p> <ul style="list-style-type: none"> < Orientation – East facing. < Heat Insulation - <ul style="list-style-type: none"> - More than 50% external walls are cavity walls. - Glazing with single refelective glass. - Thermal insulation on roof. <p>Conservation of water – Dual system domestic & flushing water line.</p>
Innovative features	<p>CYCLING VELODROME</p> <p>Fully air conditioned indoor stadium</p> <p>WRESTLING STADIUM</p>
Total approved Project cost	<p>CYCLING VELODROME</p> <p>ˆ 150 Crores.</p> <p>WRESTLING STADIUM</p> <p>ˆ 79.21 Crores</p> <p>GYMNASTICS STADIUM</p> <p>ˆ 460Crores</p>
Funding	<p>CYCLING VELODROME</p>



agency/Department/ Ministry	Ministry of Youth Affairs and Sports Government of India WRESTLING STADIUM Ministry of Youth Affairs and Sports Government of India
Consultants	CYCLING VELODROME M/s Stup Consultants Pvt. Ltd WRESTLING STADIUM M/s Consulting Engineering Services (India) Consultants Pvt. Ltd.
Architects	CYCLING VELODROME M/s Stup Consultants Pvt. Ltd WRESTLING STADIUM M/s Consulting Engineering Services (India) Consultants Pvt. Ltd.
Contractors	CYCLING VELODROME M/s JMC Project (India) Ltd. M/s Comfort Net Traders(India) WRESTLING STADIUM M/s Era Infra Engineering Ltd.



JAWAHARLAL NEHRU STADIUM

Competition Venue	Athletics, Weightlifting, Lawn Bowls
Training Venue	Athletics, Weightlifting
Agency	Central Public Works Department

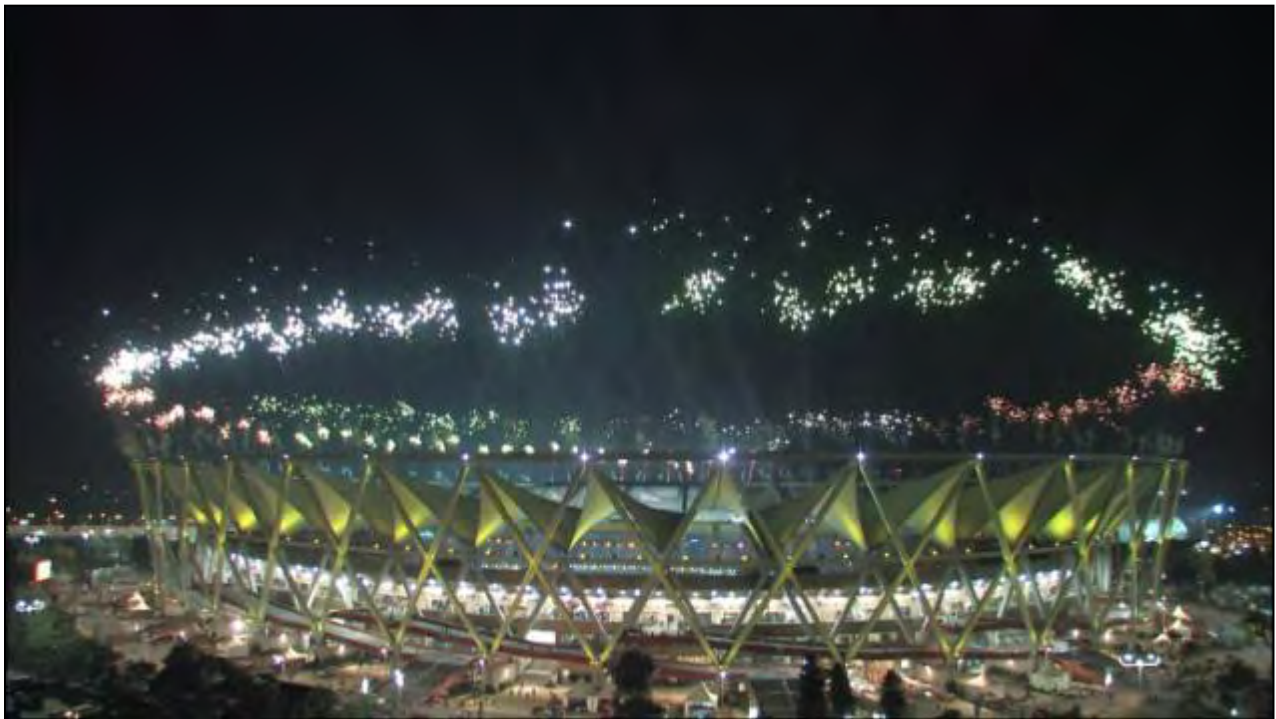


Figure11 : CPWD-JNStadium

The Jawaharlal Nehru Stadium (JNS) hosted the opening and closing ceremonies, the Athletic events, Weightlifting and Lawn Bowls of the Commonwealth Games 2010. JNS holds great importance as the Opening and the Closing ceremony at 2010 were conducted here. The Opening and Closing Ceremonies showcased India's great Civilization, its history, cultural diversity, varied art forms, music and dance. The unique membrane roof sheltered 60,000 spectators. Its special features are the 2 outer basket like supporting columned structures carrying not only the compression rings but also the complete ramp system for access and evacuation.



Distance Chart

Distance from	
Indira Gandhi International Airport	18.9 Km
Approximate Drive Time	42 Mins
Distance from	
ISBT Kashmere Gate	12.3 Km
Approximate Drive Time	30 Mins
Distance from	
Connaught Place	7.4 Km
Approximate Drive Time	19 Mins
Distance from	
Games Village	9.5 km
Approximate Drive Time	21 Mins
Distance from	
Games Village (Over Barapulla Nalah)	6 km
Approximate Drive Time	13 Mins
Located near Lodhi Colony	

JN Stadium of Delhi is situated near the Central Government Offices (C.G.O.) Complex in the Lodhi Road area. Built by the Government of India in the year 1982, it has been serving as an all-purpose sports ground. Apart from the sports events like football etc., the JN Stadium also hosts entertainment events. A number of concerts by the famous musicians, singers and other performers have been held here in the past.

Details

SPECIFICATION	DETAILS
Structural Details	<p>JNSATHLETICS</p> <ul style="list-style-type: none"> < Total area of plot 4,04,686.00sq. m. < Basement area- Nil < Total plinth area 52,884.58sq. m.



	<ul style="list-style-type: none"> ◁ RCC structure of oval shaped building ◁ Three independent structures of main stadium building, i.e. Lower building and supporting structure for PTFE membrane roof ◁ Earthquake resistant building ◁ Two tier seating arrangement ◁ Granite, Vitrified Tiles and Kota stone flooring ◁ Independent steel space frame for PTFE roofing over spectators stands <p>JNS WEIGHTLIFTING AUDITORIUM</p> <ul style="list-style-type: none"> ◁ Total area of the plot is within JNS Complex and no separate plot is earmarked for Weightlifting. ◁ Basement area Lower – 5506 sq. m. & Upper – 7186 sq. m. ◁ Ground Floor 6005 sq. m. ◁ First Floor 3520 sq. m. ◁ Total plinth area 9500 sq. m. ◁ R.C.C Structure with double Basement, Ground Floor & First Floor. ◁ Flooring Work i.e. Granite and Vitrified Tiles. ◁ Steel Framed structure for auditorium. <p>JNSLAWN BOWLS</p> <p>These are only sports surfaces to be constructed at Ground level.</p>
<p>Specification Of Play Areas</p>	<p>JNSATHLETICS</p> <p><u>Competition Area</u> 400 x 9 lane synthetic track with 10 sprint lane of Class-I certification</p> <p><u>Training Area</u></p> <ul style="list-style-type: none"> ◁ 400 x 9 lane synthetic track with 10 sprint lane of Class-II certification ◁ Warm-up for throwing ◁ Final warm-up synthetic track inside the main stadium 80 meter long 6 lane <p>JNS WEIGHTLIFTING AUDITORIUM</p> <p><u>Competition Areas</u></p> <ul style="list-style-type: none"> ◁ 10 X10m Weightlifting Platform. ◁ 4 X 4m Rubberized FOP for Weightlifting with wooden flooring in balance



	<p>portion.</p> <p><u>Warm-Up</u></p> <p>Same as above</p> <p>JNSLAWN BOWLS</p> <p>Synthetic surface of size 40mx40m surrounded by 30 cm wide and 10cm high permeable sub base made by laying Wet Mix macadam over Gravel and crushed over sub grade.</p>																															
<p>Seating Capacity</p>	<p>JNSATHLETICS</p> <p><u>Lower tier</u></p> <table border="0"> <tr> <td>VVIP</td> <td>-100</td> <td></td> </tr> <tr> <td>Games Family</td> <td>-3000</td> <td></td> </tr> <tr> <td>VIP</td> <td>-4000</td> <td></td> </tr> <tr> <td>Media</td> <td>-2500</td> <td></td> </tr> <tr> <td>Athlete</td> <td>-4600</td> <td></td> </tr> <tr> <td>EAD</td> <td>-305</td> <td></td> </tr> <tr> <td>Lower tier total</td> <td></td> <td>= 16005</td> </tr> </table> <p><u>Upper tier</u></p> <p>Spectators = 44000</p> <p>JNS WEIGHTLIFTING AUDITORIUM</p> <table border="0"> <tr> <td>< Spectator Seating</td> <td rowspan="2">}</td> <td rowspan="2">2500</td> </tr> <tr> <td>< VIP Seating (Grand Stand)</td> </tr> <tr> <td>< Press Seating</td> <td></td> <td></td> </tr> <tr> <td>< Provision for Temporary Seating</td> <td></td> <td>Nil</td> </tr> </table> <p>JNSLAWN BOWLS</p> <p>2500 as per venue brief at J.N. stadium only</p>	VVIP	-100		Games Family	-3000		VIP	-4000		Media	-2500		Athlete	-4600		EAD	-305		Lower tier total		= 16005	< Spectator Seating	}	2500	< VIP Seating (Grand Stand)	< Press Seating			< Provision for Temporary Seating		Nil
VVIP	-100																															
Games Family	-3000																															
VIP	-4000																															
Media	-2500																															
Athlete	-4600																															
EAD	-305																															
Lower tier total		= 16005																														
< Spectator Seating	}	2500																														
< VIP Seating (Grand Stand)																																
< Press Seating																																
< Provision for Temporary Seating		Nil																														
<p>Floor Wise Facilities</p>	<p>JNSATHLETICS</p> <ul style="list-style-type: none"> < Ground Floor Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, Venue Management, Storage, Mixed Zone, Press conference, Final Warm-Up, Police and security area, final call, building services etc. < First Floor (Lower Concourse Level) VIP, Games Family, Media and EAD Seating, VVIP, VIP, Games Family lounges, Merchandise, food and beverage, 																															



	<p>sponsors area, VIP Concourse, press/photo work room etc.</p> <ul style="list-style-type: none"> < Second Floor Level Multipurpose halls, National federation offices, TV studio area etc. < Third Floor Level (Upper/ Public concourse - Food) and beverages, shops and public facilities. <p>JNS WEIGHTLIFTING AUDITORIUM</p> <ul style="list-style-type: none"> < Basements Lower Car Parking for 300 Vehicles, AHU's Fan Rooms < Upper Basement – AC Plant Room, AHU's Chillers. < Ground Floor Main Weightlifting Auditorium, Warm up area, Games Family / Athlete Lounge, Medical Area, DOPE Centre < First Floor Result Printing, Press Photo Work Room, Media Lounge, Press Conference Room, Venue Result Room, Audio Video Bulk Storage, Press Operations Office, Electrical Room, Technical Official Lounge, Meeting Room, Change Room, National Federation Offices / Secretariat, Commonwealth Sports Federation Office, International Federation Office, etc. <p>JNSLAWN BOWLS</p> <p>Temporary overlay/structures as per requirement</p>
<p>Facilities In Adjacent Blocks</p>	<p>JNSATHLETICS</p> <ul style="list-style-type: none"> < National Dope Test Laboratory < SAI Headquarter < Media/Hostel Block <p>JNS WEIGHTLIFTING AUDITORIUM</p> <p>No adjacent block. There is pedestrian plaza and some landscape area level.</p>
<p>Parking Facilities</p>	<p>JNSATHLETICS</p> <p>Basement parking 270 in weightlifting auditorium Surface parking 1589 Nos. Temporary parking Parking over Khusak nala and front of Dayal Singh College developed by MCD</p> <p>JNS WEIGHTLIFTING AUDITORIUM</p>



सत्यमेव जयते

	<p>Basement parking 300 PCU's</p>
<p>Green Building Concept</p>	<p>JNS ATHLETICS</p> <ul style="list-style-type: none"> < Rain Water Harvesting. < Walls with hollow concrete blocks/Cavity walls. < Glazing with double Insulated glass. < Thermal insulation on roof. < Dual knob flushing cisterns. < Use of fly ash bricks < Green area 1,86,650.00 sq. m.. (Land Escaping) <p>JNS WEIGHTLIFTING AUDITORIUM</p> <ul style="list-style-type: none"> < Orientation North South. < Rain water harvesting / recharging. < Heat Insulation <ul style="list-style-type: none"> - Glazing with double Insulated glass. - Thermal insulation on roof. < Energy efficient electrical fittings. < Use Fly Ash Bricks. <p>JNS LAWN BOWLS</p> <p>This is a temporary / open venue</p>
<p>Innovative Features</p>	<p>JNS ATHLETICS</p> <ul style="list-style-type: none"> < High definition transmission with 2200 lux. < Photo finish room < PTFE membrane Roof 69 mtr. cantilever over seating area < Underground Tunnel through arena for ceremony < Surface tunnel for Athlete from warm-up to main stadium < 5 no. Accessible ramps < 14 no. lifts and 2 no. escalator < Final warm-up inside the stadium building



	<ul style="list-style-type: none"> < Accessible toilets < Grand entry to stadium < evacuation time – 6 minutes < Boundary wall with 16 gates < Seating chairs at upper tiers & Lower tiers. < 14 no. circular ramps for upper concourse <p>JNS WEIGHTLIFTING AUDITORIUM</p> <p>It is being developed as Weightlifting venue with state of the art features used as auditorium legacy.</p> <p>JNS LAWN BOWLS</p> <p>Synthetic Turf for Lawn Bowling being introduced for the first time in Commonwealth Games</p>
Total Approved Project Cost	<p>JNSATHLETICS</p> <ul style="list-style-type: none"> ˆ 880 Crore <p>JNS WEIGHTLIFTING AUDITORIUM</p> <ul style="list-style-type: none"> ˆ 70 Crores <p>JNS LAWN BOWLS</p> <ul style="list-style-type: none"> ˆ 7.41 crores
Funding Agency Department / Ministry	Ministry of Youth Affairs and Sports, Government of India.
Consultants	<p>JNSATHLETICS</p> <p>Consulting Engineering Services (India) Pvt. Ltd. In joint venture of sbp assp Gmbh and IG Tech Gmbh</p> <p>JNS WEIGHTLIFTING AUDITORIUM</p> <p>M/s Consulting Engineering Services (I) Pvt. Ltd.</p> <p>JNS LAWN BOWLS</p> <p>M/s Consulting Engineering Services (I) Pvt. Ltd.</p>
Architects	M/s Consulting Engineering Services (I) Pvt. Ltd.



Contractors	<p>JNSATHLETICS</p> <p>M/s Era Infra Engineering Ltd.</p> <p>M/s Shiv Nare Sports Pvt. Ltd. for Synthetic Tracks.</p> <p>JNS WEIGHTLIFTING AUDITORIUM</p> <p>M/s Nagarjuna Construction Co. Ltd.</p> <p>JNS LAWN BOWLS</p> <p>M/s Jubilee Sports Technology (I) Pvt. Ltd</p>
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MDC NATIONAL STADIUM

Competition Venue	Hockey
Training Venue	Hockey, Swimming
Agency	Central Public Works Department



Figure12: CPWD-MDC National Stadium

Distance Chart:

Distance from	
Indira Gandhi International Airport	20.6 Km
Approximate Drive Time	44 Mins
Distance from	
ISBT Kashmere Gate	6.9 Km
Approximate Drive Time	16 Mins



Distance from	
Connaught Place	3.7 Km
Approximate Drive Time	11 Mins
Distance from	
Jawaharlal Nehru Stadium	5.5 Km
Approximate Drive Time	12 Mins
Distance from	
Games Village	6.6 Km
Approximate Drive Time	16 Mins
Located near India Gate	

The erstwhile National Stadium, known as the "temple of Indian hockey," was dedicated to the memory of Indian hockey legend Major Dhyan Chand in 2002. The Stadium boasts of two brand new synthetic hockey turfs and has a capacity of 25,000. In preparation for the 2010 Delhi Commonwealth Games, the hockey pitches were equipped with floodlights and electronic and video-matrix scoreboard.

Details:

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> ◁ Total area of the plot 143732 sq. m. ◁ Basement area - 23579 sq. m. ◁ Total plinth area - 10915 sq. m. ◁ R.C.C Structure of Circular Building. ◁ Flooring Work i.e. Granite, Vitrified Tiles, Kota Stone & High strength concrete concrete flooring. ◁ Structural Glazing. ◁ HVAC, Fire Detection & Fire Fighting Work.
Specification Of Plot Areas	Competition Areas: <ul style="list-style-type: none"> ◁ Wooden Flooring in the Practice & Show Courts.



SPECIFICATION	DETAILS
	<ul style="list-style-type: none"> ◁ Three Synthetic Turf – 101.40 X 63M each. ◁ 3 Nos. Tennis Courts of Clay & 2 Nos. Courts of synthetic surface. <p>Training Areas :</p> <ul style="list-style-type: none"> ◁ Swimming pool of size 50 x 18mtr. with change rooms toilets and other facility.
Seating Capacity	<ul style="list-style-type: none"> ◁ Spectator Seating 14000 ◁ VIP Seating (Grand Stand) 6000 ◁ Provision for Temporary Seating 2500
Floor Wise Facilities	<ul style="list-style-type: none"> ◁ Basement- Open Gallery Lower Basement & Upper Basement for Car Parking for 350 Vehicles ◁ VIP Gallery Upper Basement Athletic lounge, Change rooms, 4 Nos. Technical Officers lounge, Technical Official change rooms, Dope Lab, Physiotherapy mixed zone. ◁ Ground Floor- Open Gallery- Spectator's main entry, Public concourse, Toilets, Work force area, Medical facility, Ambulance parking, Merchandize. ◁ VIP Gallery VIP Concourse, Toilets, Athlete lounge ◁ First Floor Open Gallery Office space, Kitchen & Kitchen store ◁ VIP gallery Main entry, Media lounge, Games family lounges, VVIP seating, Commentator box, PA System room, Coaches rooms.
Facilities In Adjacent Blocks	<p>Like some Facility Block / Building etc.</p>
Parking Facilities	<ul style="list-style-type: none"> ◁ Basement parking Not during the game ◁ Surface parking VIP & T1 & T2 Parking ◁ Temporary parking
Green Building Concept	<ul style="list-style-type: none"> ◁ Orientation North South.



SPECIFICATION	DETAILS
	<ul style="list-style-type: none"> ◁ Rain water collection and reuse. ◁ Recycling of treated water. ◁ Heat Insulation <ul style="list-style-type: none"> - Thermal insulation of roof. - Heat reflecting coloured glass. ◁ Conservation of water <ul style="list-style-type: none"> - Push cock in each wash basin. - Double piping system for use of unfiltered water. - Recycling of turf curing of water. - Use of waterless urinals.
Total Approved Project Cost	` 262Crores
Funding Agency / Department / Ministry	Ministry of Youth Affairs and Sports, Govt. of India
Consultants	M/s Consulting Engineering Services (I)
Architects	M/s Consulting Engineering Services (I)
Contractors	M/s Unity Infra Projects



CRPF CAMPUS KADERPUR

Competition Venue	Big-Bore Shooting
Training Venue	Nil
Agency	Central Public Works Department



Figure13: CPWD-Big Bore Shooting

Distance Chart:

Distance from	
Indira Gandhi International Airport	28 Km
Approximate Drive Time	50 Mins
Distance from	
ISBT Kashmere Gate	44 Km
Approximate Drive Time	1 Hr 35 Mins



Distance from

Connaught Place	39 Km
Approximate Drive Time	1 Hr 20 Mins

Distance from

Jawaharlal Nehru Stadium	39.5 Km
Approximate Drive Time	1 Hr 24 Mins

Distance from

Games Village	46.4 Km
Approximate Drive Time	1 Hr 40 Mins

Located near Gurgaon on Sohna Road

Details :

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> < RCC box 80m long culverts of span 6m to 12m. < RCC End wall of 13m height. < Facilities Block of covered area of App. 2000m² RCC frame structure. < RCC Side baffle walls of 7m wide & of varying heights from @ 50yards both side of the range. 4 Nos. of RCC baffle wall wide & 2m high in each bay of big baffle on one side only.
Specification Of Play Area	<p><u>Competition Areas:</u> 300mm high Platform of 68mx5m with grass finished supported with toe walls only.</p>
Seating Capacity	Total- 324 Nos. in all, separate entries for Ground floor- Entrance, Spectators, Games family & Athletes.
Floor Wise Facilities	<ul style="list-style-type: none"> < Weapon inspection. < Game family lounge. < Athletes family lounge & Change room. < Doctors Room.



	<ul style="list-style-type: none"> < Administration Area. < Media gallery. < Spectators plaza. < Toilets for each components.
Facilities In Adjacent Block	No adjacent block.
Parking Facilities	Parking facilities for spectators, Game family & Athletes.
Green Building Concept	<ul style="list-style-type: none"> < Rain water harvesting / recharging. < Heat Insulation <ul style="list-style-type: none"> - Glazing with double Insulated glass. - Thermal insulation on roof.
Innovative Features	—
Total Approved Project Cost	~ 25.00 Crores
Funding Agency / Department / Ministry	Ministry of Sports
Consultants	Suresh Goel & Associates
Architects	Suresh Goel & Associates
Contractors	M/s Narbir Singh & Co. M/s Bansi Lal & Sons.



Delhi Public School, RK Puram (2mGreens)

Competition Venue	Nil
Training Venue	Lawn Bowls
Agency	Central Public Works Department



Distance Chart:

Distance from	
Indira Gandhi International Airport	11.3 Km
Approximate Drive Time	24 Mins
Distance from	
ISBT Kashmere Gate	16.2 Km
Approximate Drive Time	39 Mins
Distance from	
Connaught Place	10.4 Km
Approximate Drive Time	26 Mins



Distance from	
Jawaharlal Stadium	7.3 Km
Approximate Drive Time	18 Mins
Distance from	
Games Village	16.5 Km
Approximate Drive Time	40 Mins
Located near Vasant Vihar	

Details:

SPECIFICATION	DETAILS
Structural Details	These are only sports surfaces to be constructed at ground level.
Specification Of Play Areas	<u>Training Areas:</u> Two Synthetic surfaces of size 40mx40m and 30 X 37m surrounded by 30 cm wide ditch all-round with permeable sub base made by laying Wet Mix macadam over Granular sub base over sub grade.
Seating Capacity	Nil
Floor Wise Facilities	Temporary overlay/structures as per O.C. requirement
Facilities In Adjacent Blocks	NA
Parking Facilities	NA
Green Building Concept	This is an open venue without any buildings.
Innovative Features	Synthetic Turf for Lawn Bowling introduced for the first time in Commonwealth Games.
Total Approved Project Cost	₹ 2.47 crores
Funding Agency / Department / Ministry	Ministry of Youth Affairs And Sports, Government of India
Consultants	M/s Consulting Engineering Services Pvt. Ltd.



Architects	M/s Consulting Engineering Services (I) Pvt. Ltd.
Contractors	M/s Jubilee Sports Technology (I) Pvt. Ltd.



CHHATRASAL STADIUM

Competition Venue	Nil
Training Venue	Athletics
Agency	Government of National Capital Territory of Delhi



Figure14: GNCTD-Chhatrasal Stadium



Distance Chart:

Distance from	
Indira Gandhi International Airport	28.4 Km
Approximate Drive Time	60 Mins
Distance from	
ISBT Kashmere Gate	7.4 Km
Approximate Drive Time	19 Mins
Distance from	
Connaught Place	11.8 Km
Approximate Drive Time	29 Mins
Distance from	
Jawaharlal Stadium	16.9 Km
Approximate Drive Time	39 Mins
Distance from	
Games Village	16.7 Km
Approximate Drive Time	40 Mins
Located near Naini Lake	



THYAGARAJ SPORTS COMPLEX

Competition Venue	Netball
Training Venue	Athletics
Agency	Government of National Capital Territory of Delhi



Figure 15: GNCTD-Thyagraj Sports Complex

Distance Chart:

Distance from	
Indira Gandhi International Airport	17.2 Km
Approximate Drive Time	40 Mins
Distance from	
ISBT Kashmere Gate	13.8 Km



Approximate Drive Time 39 Mins

Distance from

Connaught Place 8.2 Km

Approximate Drive Time 23 Mins

Distance from

Jawaharlal Nehru Stadium 2.5 km

Approximate Drive Time 11 Mins

Distance from

Games Village 12.8 Km

Approximate Drive Time 33 Mins

Located near Safdarjung Airport

Details:

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> < Total area of the plot - 65456 sq. m. < Basement area - 16515 sq. m. < Total plinth area - 47053 sq. m. < R.C.C Structure with Steel roofing < Flooring Work i.e. Granite, Recycled PVC, Carpets, Epoxy & Kota Stone < Maple Wooden Flooring in Central Arena < Space Frame < HVAC, Fire Detection & Fire- fighting Work, Lifts & Escalators
Specification Of Play Areas	<p>COMPETITION AREAS:</p> <ul style="list-style-type: none"> < Maple Wooden Flooring in the Show Court. <p>TRAINING AREAS :</p> <ul style="list-style-type: none"> < Maple Wooden Flooring in the Practice Courts. < Synthetic Track – 400 m X 8 lane



SPECIFICATION	DETAILS
	<p>ADDITIONAL FACILITIES:</p> <ul style="list-style-type: none"> ◁ 3 Nos. Tennis Courts of Clay & 2 Nos. Courts of synthetic surface.
Seating Capacity	<ul style="list-style-type: none"> ◁ Spectator Seating 3600 (approx.) ◁ VIP Seating (Grand Stand) 58 + VIP Lounge Seating (124 Seats) ◁ Press Seating 154 + Media Working Lounge ◁ Provision for Temporary Seating NA
Floor Wise Facilities	<ul style="list-style-type: none"> ◁ Basement Car Parking for 450 Vehicles & Pump Room ◁ Ground Floor (Plaza Level) Two Practice Courts & One show Court, Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Venue Management, Store & Spectator Seating etc. ◁ First Floor (Concourse Level) Spectator Seating, Merchandise, Spectator Concourse & External Concourse. ◁ Second Floor Level (Upper Level) Media Center, Games Family Lounge, Games Family Seating & VVIP Seating.
Facilities In Adjacent Blocks	<p>There is no adjacent Block.</p>
Parking Facilities	<ul style="list-style-type: none"> ◁ Basement parking During Games only for VVIP & T1 ◁ Surface parking (Inside Campuses) During Games only for VIP, T2 & Netball Athlete Bus ◁ Temporary parking For spectators In adjacent school buildings & Safdarjung Airport



SPECIFICATION	DETAILS
Green Building Concept	<ul style="list-style-type: none"> ◁ Orientation - North South. ◁ Rain water harvesting. ◁ Effluent Treatment Plant. ◁ Grid Interactive One Megawatt Solar energy. ◁ Heat Insulation <ul style="list-style-type: none"> - Walls with hollow concrete blocks/Cavity walls. - Glazing with double Insulated glass. - Thermal insulation on roof & wall. ◁ Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture. - Dual knob flushing cisterns. - Gas based Turbine (2.5 MW) - Vapour Absorption Machine
Innovative Features	As mentioned in S. No. 7.
Total Approved Project Cost	` 297.45 Crore
Funding Agency / Department / Ministry	Directorate of Education, Government of Delhi.
Consultants	M/s Peddle Thorp Architects, Australia in JV with M/s Kapoor & Associates
Architects	M/s Peddle Thorp Architects, Australia in JV with M/s Kapoor & Associates
Contractors	M/s JMC Projects (India) Lt. for major part of project



LUDLOW CASTLE HALL

Competition Venue	Nil
Training Venue	Wrestling (Men)
Agency	Government of National Capital Territory of Delhi



Figure 16: GNCTD-Ludlow Castle Hall

Distance Chart:

Distance from	
Indira Gandhi International Airport	24.6 Km
Approximate Drive Time	36 Mins



Distance from

ISBT Kashmere Gate	3.6 Km
Approximate Drive Time	7 Mins

Distance from

Connaught Place	7.4 Km
Approximate Drive Time	14 Mins

Distance from

Jawaharlal Nehru Stadium	14.8 Km
Approximate Drive Time	25 Mins

Distance from

Games Village	11.4 Km
Approximate Drive Time	18 Mins

Located near Kamla Nehru Ridge Forest



TALKATORA INDOOR STADIUM

Competition Venue	Boxing
Training Venue	Nil
Agency	New Delhi Municipal Council



Figure 7: NDMC-Talkatora Indoor Stadium

Distance Chart

Distance from	
Indira Gandhi International Airport	18.3 Km
Approximate Drive Time	39 Mins
Distance from	
ISBT Kashmere Gate	8.2 Km



Approximate Drive Time 21 Mins

Distance from

Connaught Place 4.1 Km

Approximate Drive Time 11 Mins

Distance from

Jawaharlal Nehru Stadium 8.5 Km

Approximate Drive Time 21 Mins

Distance from

Games Village 10.4 Km

Approximate Drive Time 25 Mins

Located near Birla Mandir

Details

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> < Total area of the plot 67860.44 sq. m. < Basement area 12878.78 sq. m. < Total plinth area 18965sq. m. < R.C.C Structure of Circular Stadium, Triangular Building & External Parking.
Specification Of Play Areas	<ul style="list-style-type: none"> < Maple Wood Flooring. < Boxing Ring.
Seating Capacity	3000 Numbers
Floor Wise Facilities : Existing Stadium	<ul style="list-style-type: none"> < Basement - Technology Room, Broadcasting Room, Electric Room, Stores. < Ground Floor (Plaza Level) - Warm-up, Jury Cubicles, VIP Holding Area, Lobbies, Snacks Room. < Seating Tiers. < F.O.P. < V.V.I.P Seating Area, Athletes Competing Seating.



<p>Facilities Adjacent Blocks Facility Block</p>	<ul style="list-style-type: none"> < Lower Basement AC Plant Room, Fan Rooms, Parking. < Upper Basement Fan Rooms, DG Rooms, Transformer Room, HT and LT Rooms, Parking. < Ground Floor Athlete Cubicles, Medical Office, Physiotherapy Massage, Lockers Rooms, Warm-up, Technical Officials Meeting Rooms and Media Lounge. < First Floor Processing Rooms, Dope Testign, Blood Processing Room, Broad Cast Management, Technical Operation Centre, Press Operation Office, Locker Room, Resources. < Second Floor Weigh in Rooms, Technical Committee, Organizing Committee Rooms, INFO & FO Rooms < Third Floor Cafeteria, Meeting Room, Technical Delegates Office, Common Wealth Sports Federation Office, National Federation Secretariat, Press/photo Room. < Fourth Floor Offices and Meeting Rooms.
<p>Parking Facilities</p>	<ul style="list-style-type: none"> < Basement - 300 Cars < Surface - 200 Cars
<p>Green Building Concepts</p>	<ul style="list-style-type: none"> < Use of Flash Bricks < Rain water harvesting. < Use of Solar energy. < Heat Insulation <ul style="list-style-type: none"> - Walls with Gypsum Partitions. - Glazing with double Insulated glass. - Thermal insulation on roof & wall. < Conservation of water <ul style="list-style-type: none"> - Use of recycled water for flushing & horticulture. - Dual knob flushing cisterns
<p>Innovative Features</p>	<ul style="list-style-type: none"> < Acoustics Ceiling in the Central Arena. < Seating tiers. < Conference room.



	<ul style="list-style-type: none"> ◁ Score Board/Video Boards. ◁ Boxing Ring. ◁ Warm up cubicals. ◁ Tunnel for players.
Total Approved Project Cost	₹ 150 Crores
Funding Agency / Department / Ministry	New Delhi Municipal Council, Government of Delhi
Consultants	M/s SGS, Third Party Quality Assurance Consultant.
Architects	M/s Raja Aederi Consultants Pvt. Ltd.
Contractors	M/s Simplex Projects Ltd., M/s Hindustan Construction, M/s Cortic Blue Star, M/s Omega Elevators, M/s Sudhir Gen Set, M/s Pranat Hightec Systems, M/s Linkage Systems, M/s Control & Switchgear



RK KHANNA TENNIS COMPLEX

Competition Venue	Tennis
Training Venue	Tennis
Agency	All India Tennis Association

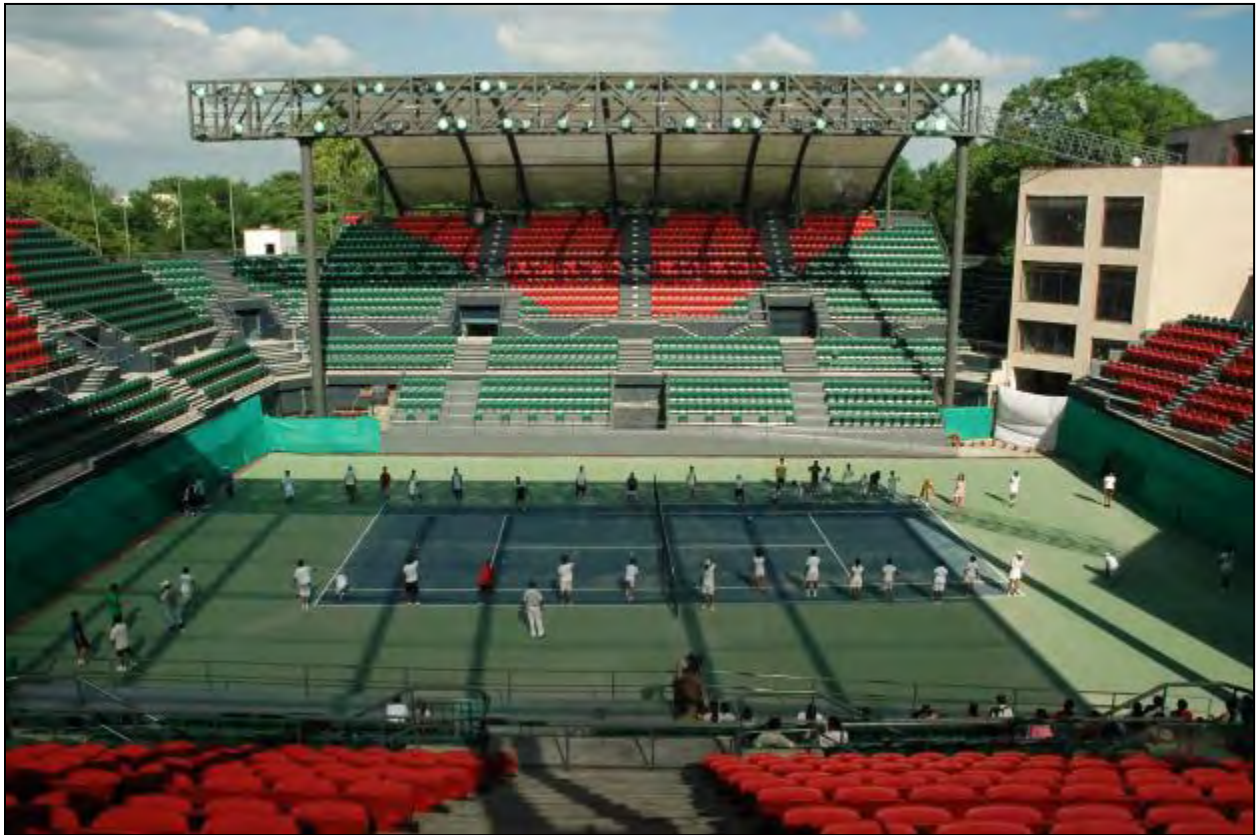


Figure18: AITA - R. K. Khanna Tennis Complex

Distance Chart:

Distance from	
Indira Gandhi International Airport	14.8 Km
Approximate Drive Time	33 Mins
Distance from	
ISBT Kashmere Gate	16.7 Km
Approximate Drive Time	43 Mins



Distance from	
Connaught Place	11.2 Km
Approximate Drive Time	30 Mins
Distance from	
Jawaharlal Nehru Stadium	4.9 Km
Approximate Drive Time	12 Mins
Distance from	
Games Village	11.7 Km
Approximate Drive Time	28 Mins
Located near Safdarjung Enclave	

The RK Khanna Tennis Stadium of the All India Tennis Association (AITA) will hosted Tennis Events of the Commonwealth Games. The entire funding for its renovation and up gradation is being provided by the Ministry of Sports. It is situated in the lush environment of the Deer Park in the Safdarjung Enclave area.

Details :

SPECIFICATION	DETAILS
Structural Details	<ul style="list-style-type: none"> < Total area of the plot 109081.74 sq. m. < Basement area 2273.72 sq. m. < Total plinth area 5804.26 sq. m. < R.C.C Structure of Building < Flooring Work i.e. Granite, Vitrified Tiles & Kota Stone < Space Frame <ul style="list-style-type: none"> - Equitable spaces - Para- sports facilities - 4000 sq.m Spectator's Plaza
Specification of Areas	Synthetic Acrylic Court Surfaces and bitumen macadam



Seating Capacity (Centre Court, No.1 Court, 6 Match Courts & 6 Practice Courts)	<ul style="list-style-type: none"> ◁ Spectator Seating- 5975 (total) ◁ VIP Seating- 478 (total) ◁ Press Seating- 200 (total) ◁ Provision for Temporary Seating- 1000
Floor Wise Facilities	<ul style="list-style-type: none"> ◁ Basement- Car Parking for 238 Vehicles ◁ Ground Floor (Plaza Level)- Athletes Lounge, Change Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, Venue Management, Store & Spectator Seating etc. ◁ First Floor (Concourse Level)- Spectator Seating, Lounge, Spectator Concourse etc ◁ Second Floor Level (Upper Level)- Media Center, Games Family Seating & VVIP Seating. ◁ Third Floor (Centre Court)- Broadcast information Office
Facilities In Adjacent Blocks	As above
Parking Facilities	<ul style="list-style-type: none"> ◁ Basement parking- 149 (in legacy mode) ◁ Surface parking- 189 (in legacy mode) ◁ Separate Parking - 15 (in games mode), Parking Inside venue is not allowed, however, parking facilities for T1, T2, athletes, media is provided In nearby areas as per UTTPIC.
Green Building Concept	<ul style="list-style-type: none"> ◁ I.B.M.S ◁ Solar Lighting ◁ High performance Glass to prevent heat gain, maximize daylight factor and reduce maintenance costs. ◁ Passive Solar Cooling ◁ Solar heating ◁ Rain water harvesting ◁ 3 acres of Grass Pavers ◁ Dual flushing systems



	<ul style="list-style-type: none"> ◁ Selfclosing Taps ◁ Grey Water management
Innovative Features	<ul style="list-style-type: none"> ◁ U.V. Stable gravity tilt seating ◁ Separate access for Front of House and Back of House ◁ Centralized Water cooling and air conditioning ◁ Fire-fighting and Detection systems ◁ Emergency response and medical facilities including medical fire brigade and ambulance ◁ Temporary Overlays for improving the services to sports athletes, games family and media ◁ Dedicated Broadcast Centre ◁ Security Systems ◁ Venue technology facilities. ◁ Dedicated Press Conference rooms and lounges ◁ traffic management systems ◁ UPS backup for critical load ◁ Dual Grid power supply from BSES ◁ Dedicated facilities for athletes such as gym, lounges, c rooms etc. ◁ Dedicated spaces for games federation offices ◁ Dedicated spaces for umpires, ball persons, technical deleg ◁ Dedicated spaces for Venue Work force, catering, logistics ◁ Tensile Roofing ◁ Catwalk lighting for Centre Court and No.1 Court. ◁ Use of locally available materials for façade
Total Approved Project Cost	65.65 Crores
Funding Agency / Department / Ministry	Ministry of Youth Affairs and Sports, Government of India



Consultants	M/s S.G. Lakhanpal Associates, Akshay Kaul and Associates, Consultants, Swati Structure Solutions Pvt. Ltd, Paradise C B.P.Singh, Vinod Luthra and Associates, Creative Services Co Panacea Ltd, Combined Engineering Services
Architects	M/s S.G. Lakhanpal Associates
Contractors	M/s Skyline Engineering Contracts (India) Pvt. Ltd, Blue Star Ltd Ltd, GEPS Projects Ltd, Engicon Systems Pvt. Ltd.



DELHI UNIVERSITY (MAIN SPORTS GROUND)

Competition Venue	Rugby 7s
Training Venue	Nil
Agency	Delhi University



Figure19: DU-Main Sports Ground

Distance Chart:

Distance from	
Indira Gandhi International Airport	24.9 Km
Approximate Drive Time	56 Mins



Distance from	
ISBT Kashmere Gate	4.2 Km
Approximate Drive Time	14 Mins
Distance from	
Connaught Place	7.7 Km
Approximate Drive Time	22 Mins
Distance from	
Jawaharlal Nehru Stadium	14.4 Km
Approximate Drive Time	35 Mins
Distance from	
Games Village	14.5 Km
Approximate Drive Time	38 Mins
Located near Kamla Nehru Ridge Forest	

Details:

SPECIFICATION	DETAILS
Structural details	<ul style="list-style-type: none"> < RCC framed structure (G+3 with basement) < Basement area (3,005 m²) < Plinth area (2,769 m²) < Roofing- Structural steel truss with polycarbonate sheet on top. < Flooring- Marble, Granite, polished kota stone, vitrified tiles & rubber tiles < Internal finishes- False ceiling, acrylic emulsion paints < External finishes- Structural glazing, Aluminium composite panels, textured paint < HVAC, fire detection & fire fighting works
Specification of play area	130m x 70m field of play (Natural grass turf)
Seating capacity	Permanent seating <ul style="list-style-type: none"> < Spectators-750 Nos.



SPECIFICATION	DETAILS
	<ul style="list-style-type: none"> < VIPs/Athletes/officials 616 Nos. < Games family 931 Nos. < Press seating 464 Nos. < Sponsors 150 Nos. < Provision for temporary seating 743 Nos.
Floor wise facilities	<ul style="list-style-type: none"> < Basement floor Workforce break area, Radio distribution room, Venue operation areas, Technology storage, store areas, security offices, CCTV centre. < Ground floor Athletes Change room, Warm up area, Press conference room, FoP Equipment storage, Technical delegates office, Doping control room, Medical & physio rooms, Technical office lounge, Sports information office, meeting room, Competition management office < First floor Athletes lounge, Games family lounge, Media lounge, Press work room, Broadcast info. Centre, Technical Committee office, Organizing committee office, National federation secretariat, National federation office, Commonwealth sports federation office, International federation office, Protocol Assistant area etc. < Second floor Concourse area, Male & female toilets < Third floor Sports presentation office, Sitting Commissioner office, Control room, TV communications, Time & score control office, Results printing office
Facilities in Adjacent blocks	NA
Parking facilities	Surface parking <ul style="list-style-type: none"> < Bus parking (14 Nos.) < Car & Three wheelers (87 Nos.) < Two wheelers (61 Nos.)



SPECIFICATION	DETAILS
Green building concept	<ul style="list-style-type: none"> < Orientation NorthSouth < Insulated roofing system < Rain water harvesting < Sewerage treatment plant < Providing VRF system for Grand stand building (HVAC saving appreciable power (low running cost) and environmental refrigerant gas i.e; R410a. < Use of Ozone system (at Main system) to have bacteria and microbes free environment same time reducing the requirement of fresh air/no. of air Thus reducing the net tonnage of air conditioning required < Use of Electronic Copper ballast having low losses. < Landscaping with plantatbf trees having good Dust, No Gaseous pollutant absorbing quality. < Use of Silent type DG sets using low sulphur diesel oil. < Use of Dry type Transformers reducing the Oil hazard. < Use of Structural Glazing/Glass for natural light. < Irrigation systemfor Field of play having facility of collecti water which passes through the root zone of the grass, after treatment. < Use of recycled water for HVAC, horticulture & flushing < Glazing with Double Low E glass.
Innovative features	<ul style="list-style-type: none"> < Single Indoor halls of size (110mtr.x60 mtr.) without s between. < Use of Ozone system to reduce tonnage of air conditic have microbes/bacteria free environment. < Use of Variable Refrigerant Flow technology for air con reducing thepower requirement and using environmental fr refrigerant Gas R410a.



SPECIFICATION	DETAILS
Total approved Project cost	` 135.1Crores
Funding agency/Department/ Ministry	Ministry of Youth Affairs & Sports, Government of India
Consultants	Engineers India Limited (A Govt India Undertaking)
Architects	M/s Developments Consultant, New Delhi M/s Peddle Thorp Architect, Australia
Contractors	M/s Nagarjuna Construction Co. Limited (For main works) exc lighting and seating



DELHI UNIVERSITY (INDOOR STADIUM)

Competition Venue	Nil
Training Venue	Netball, Boxing
Agency	Delhi University



Distance Chart:

Distance from	
Indira Gandhi International Airport	24.9 Km
Approximate Drive Time	56 Mins
Distance from	
ISBT Kashmere Gate	4.2 Km
Approximate Drive Time	14 Mins



Distance from

Connaught Place	7.7 Km
Approximate Drive Time	22 Mins

Distance from

Jawaharlal Nehru Stadium	14.4 Km
Approximate Drive Time	35 Mins

Distance from

Games Village	14.5 Km
Approximate Drive Time	38 Mins

Located near Kamla Nehru Ridge Forest

Details

SPECIFICATION	DETAILS
Structural details	<ul style="list-style-type: none"> ⟨ Framed structure (G+1 with RCC basement) ⟨ Structural steel columns & trusses above G. Floor ⟨ Basement area (8,000 m²) ⟨ Plinth area (7,450 m²) ⟨ Roofing- Structural steel truss with double skin insulated sheet on top. ⟨ Flooring- Marble, Granite, polished kota stone, vitrified tiles & vinyl flooring ⟨ Internal finishes-False ceiling, acrylic emulsion paints ⟨ External finishes-Structural glazing, Aluminium composite panels, textured paint ⟨ HVAC, fire detection & fire fighting works
Specification of play area	<p>Field of play</p> <ul style="list-style-type: none"> ⟨ Maple wood sports floor ⟨ 30.50 m x 15.25 m (Two courts for Netball) ⟨ 6.00 m x 6.00 m (Four boxing rings)



SPECIFICATION	DETAILS
Floor wise facilities	<ul style="list-style-type: none"> ◁ Basement floor Workforce break area, Athletes change rooms, communication and server room, AC plant room, AHUs, Store areas, Electrical room, Maintenance room, Delhi police. ◁ Ground floor- Play courts, Athletes change rooms, Medical and physio rooms, Fitness centre, Venue operation and Meeting rooms. ◁ First floor Athletes lounge.
Facilities in Adjacent blocks	NA
Parking facilities	<p>Surface parking</p> <ul style="list-style-type: none"> ◁ Bus parking (3 Nos.) ◁ Cars (15 Nos.)
Green building conce	<ul style="list-style-type: none"> ◁ Orientation North-South ◁ Insulated roofing system ◁ Rainwater harvesting ◁ Sewerage treatment plant ◁ Providing VRF system for Grand stand building (HVAC system appreciable power (low running cost) and having environment friendly refrigerant gas i.e; R410a. ◁ Use of Ozone system (at Macro level) to have a bacteria and microbes free environment same time reducing the requirement of fresh air/no. of air conditioning. Thus reducing the net tonnage of air conditioning required. ◁ Use of Electronic Copper ballast having low losses. ◁ Landscaping with plantation of trees having good Dust, Noise and Gaseous pollutant absorbing quality. ◁ Use of Silent type DG sets using low sulphur diesel oil. ◁ Use of Dry type Transformers reducing the Oil hazard. ◁ Use of Structural Glazing/Glass for natural light. ◁ Irrigation system for Field of play having facility of collection



SPECIFICATION	DETAILS
	water which passes through the root zone of the grass, after treatment. <ul style="list-style-type: none"> ◁ Use of recycled water for HVAC, horticulture & flushing ◁ Glazing with Double Low E glass
Innovative features	<ul style="list-style-type: none"> ◁ Single Indoor halls of size (110x60 mtr.) without support between. ◁ Use of Ozone system to reduce tonnage of air conditioning microbes/bacteria free environment. ◁ Use of Variable Refrigerant Flow technology for air conditioning reducing the power requirement and using environmental refrigerant Gas R410a.
Total approved Project cost	₹ 80.32 Crores
Funding agency/Department/Ministry	Ministry of Youth Affairs & Sports, Government of India
Consultants	Engineers India Limited (A Govt. of India Undertaking)
Architects	M/s Developments Consultant, New Delhi M/s Peddle Thorp Architect, Australia
Contractors	M/s Nagarjuna Construction Co. Limited (For main works) except lighting and seating



DELHI UNIVERSITY (POLO GROUND)

Competition Venue	Nil
Training Venue	Athletics
Agency	Delhi University



Distance Chart:

Distance from	
Indira Gandhi International Airport	24.9 Km
Approximate Drive Time	56 Mins
Distance from	
ISBT Kashmere Gate	4.2 Km
Approximate Drive Time	14 Mins
Distance from	
Connaught Place	7.7 Km
Approximate Drive Time	22 Mins
Distance from	



Jawaharlal Nehru Stadium	14.4 Km
Approximate Drive Time	35 Mins
Distance from	
Games Village	14.5 Km
Approximate Drive Time	38 Mins
Located near Kamla Nehru Ridge Forest	

Details

SPECIFICATION	DETAILS
Structural details	Facility block <ul style="list-style-type: none"> < RCC framed structure (G+1) < Plinth area (465 Sq. m.) < Flooring – Marble, Granite, polished kota stone, vitrified tiles < Internal finishes – False ceiling, plastic emulsion paint. < External finishes – Structural glazing, GRC tiles. < Air Conditioning works
Facilities in Adjacent blocks	NA
Total approved Project cost	₹ 12.28 Crores
Funding agency/Department/Ministry	Ministry of Youth Affairs & Sports, Government of India
Consultants	Engineers India Limited (A Govt. of India Undertaking)
Architects	M/s Developments Consultant, New Delhi M/s Peddle Thorp Architect, Australia
Contractors	M/s Nagarjuna Construction Co. Limited (For main works) except lighting and seating



DELHI UNIVERSITY (Training Venues)

Competition Venue	Nil
Training Venue	Rugby 7s
Agency	Delhi University

Training Venues for Rugby 7s being constructed in following DU Colleges

- < Daulat Ram College
- < Hindu College
- < Khalsa College
- < Kirorimal College
- < Ramjas College
- < Sriram College of Commerce
- < St. Stephens College

Details:

SPECIFICATION	DETAILS
Structural details	<ul style="list-style-type: none"> < Facility block < RCC framed structure (G+1) < Plinth area (465. m) < Flooring- Marble, Granite, polished kota stone, vitrified tiles < Internal finishes-False ceiling, plastic emulsion paint. < External finishes-Structural glazing, GRC tiles. < Air Conditioning works
Specification of play area	120m x 70m field of play (Natural grass turf)
Floor wise facilities	<ul style="list-style-type: none"> < Ground floor - Athletes change rooms, Medical and physio rooms, Toilets, Management rooms, Store areas, FOP Equipment store.



SPECIFICATION	DETAILS
	<ul style="list-style-type: none"> ◁ First floor- Athletes lounge, workforce areas, Toilets, Pantry, Security office, store.
Facilities in Adjacent block	NA
Parking facilities	<p><u>Surface parking (For each venue)</u></p> <ul style="list-style-type: none"> ◁ Bus parking(3 Nos.) ◁ Cars (15 Nos.)
Green building concept	<ul style="list-style-type: none"> ◁ Orientation North-South ◁ Use of 04 star rating air conditioners, thus reducing the consumption. ◁ Use of Glass for utilizing the natural Light.
Innovative features	<ul style="list-style-type: none"> ◁ Single Indoor halls of size (110mtr.x60 mtr.) without spaces between. ◁ Use of Ozone system to reduce tonnage of air conditioner have microbes/bacteria free environment. ◁ Use of Variable Refrigerant Flow technology for air conditioning reducing the power requirement and using environment friendly refrigerant Gas R410a.
Total approved Project cost	<p>DAULAT RAM COLLEGE ~ 8.5 Crores</p> <p>HINDU COLLEGE ~ 8.5 Crores</p> <p>KHALSA COLLEGE ~ 8.5 Crores</p> <p>KIRORIMAL COLLEGE ~ 8.5 Crores</p> <p>RAMJAS COLLEGE ~ 8.5 Crores</p>



SPECIFICATION	DETAILS
	SRIRAM COLLEGE OF COMMERCE ` 4.34Crores ST. STEPHENS COLLEGE ` 6.16Crores
Funding agency/Department/Ministry	Ministry of Youth Affairs & Sports, Government of India
Consultants	Engineers India Limited (A Govt. of India Undertaking)
Architects	M/s Developments Consultant, New Delhi M/s Peddle Thorp Architect, Australia
Contractors	M/s Nagarjuna Construction Co. Limited (For main works) excluding lighting and seating



SRIRAM COLLEGE OF COMMERCE (Indoor Hall)

Competition Venue	Nil
Training Venue	Wrestling (Women)
Agency	Delhi University

Distance Chart:

Distance from	
Indira Gandhi International Airport	24.9 Km
Approximate Drive Time	56 Mins
Distance from	
ISBT Kashmere Gate	4.2 Km
Approximate Drive Time	14 Mins
Distance from	
Connaught Place	7.7 Km
Approximate Drive Time	22 Mins
Distance from	
Jawaharlal Nehru Stadium	15.3 Km
Approximate Drive Time	37 Mins
Distance from	
Games Village	14.2 Km
Approximate Drive Time	33 Mins
Located near Delhi University	



Details

SPECIFICATION	DETAILS
Structural details	Facility block <ul style="list-style-type: none"> < RCC framed structure (G+1) < Plinth area (465. m) < Flooring- Marble, Granite, polished kota stone, vitrified tiles < Internal finishes-False ceiling, plastic emulsion paint. < External finishes-Structural glazing, GRC tiles. < Air Conditioning works
Floor wise facilities	Ground floor- Play courts (12 m x 12 m) – 4 Nos, Athletes change rooms, Medical and physio rooms, Toilets, Meeting rooms, Store areas, FOP Equipment store. First floor- Athletes lounge, Workforce area, Toilets. Second floor- Plant room, Water tank
Facilities in Adjacent blocks	NA
Parking facilities	Surface parking <ul style="list-style-type: none"> < Bus parking (3 Nos.) < Cars (15 Nos.)
Total Approved Project Cost	₹ 23.36 Crores
Funding agency/Department/Ministry	Ministry of Youth Affairs and Sports, Government of India
Consultants	Engineers India Limited (A Govt. of India Undertaking)
Architects	M/s Developments Consultant, New Delhi M/s Peddle Thorp Architect, Australia
Contractors	M/s Nagarjuna Construction Co. Limited (For main works) except sp lighting and seating



JAMIA MILLIA ISLAMIA UNIVERSITY

Competition Venue	Nil
Training Venue	Rugby 7s, Table Tennis
Agency	Jamia Millia Islamia University



Figure20: Jamia Millia Islamia University

Distance Chart:

Distance from	
Indira Gandhi International Airport	25 Kms
Approximate Drive Time	59 Mins
Distance from	
ISBT Kashmere Gate	17.2 Kms
Approximate Drive Time	39 Mins



Distance from	
Connaught Place	13.7 Kms
Approximate Drive Time	33 Mins
Distance from	
Jawaharlal Nehru Stadium	8.9 Km
Approximate Drive Time	19 Mins
Distance from	
Games Village	11.8 Km
Approximate Drive Time	28 Mins
Located near Escorts Heart Institute	

Details:

Specification	Details
Structural Details	<ul style="list-style-type: none"> < Total area of the plot - 45600 sq. m. < Total plinth area - 4000 sq. m. < R.C.C Structure of Infra structure and service Building < Flooring Work i.e. Granite, Vitrified Tiles , Vinyl and marble < Maple Wooden Flooring in TT Hall < HVAC, Fire Detection and Full Power back up < CCTV,PTZ cameras
Specification Of Play Areas	<p>Training Areas :</p> <ul style="list-style-type: none"> < Wooden Flooring in the TT Hall < Bermuida Princess 77 Grass Turf for Rugby 7s Field
Seating Capacity	<ul style="list-style-type: none"> < Spectator Seating 100 < VIP Seating 15 < Provision for Temporary Seating
Floor Wise Facilities	<ul style="list-style-type: none"> < Ground Floor Four Practice Courts for Table Tennis and One Practice field for rugby 7s, Reception, Athletes Lounge, Change



Specification	Details
	<p>Rooms, Lockers, Technical Officers Lounge, Medical & Physiotherapy, Doping Control, Logistics, Cafeteria, Venue Management, Store, Fitness centre & Spectator Seating etc.</p> <ul style="list-style-type: none"> < First Floor) VIP Seating, Cafeteria, Change rooms, Massage room, Conference etc. < Second Floor) Spectator Seating.
Facilities In Service Block	Facility Stores and electric Room etc.
Green Building Concept	<ul style="list-style-type: none"> < Orientation North South. < Rain water harvesting. < Water Treatment Plant. < Solar water heaters and boundary lights. <p>Glazing with double Insulated glass.</p> <ul style="list-style-type: none"> < Conservation of water Reuse of irrigation water for horticulture works. Sensors are being used in toilets.
Total Approved Project Cost	42.57 Crores
Funding Agency / Department / Ministry	Ministry of Youth Affairs and Sports, Government of India
Consultants	M/s RITES Ltd.
Architects	M/s Goel Associates
Contractors	M/s BCC Developers & Promoters Pvt. Ltd.



Stadiums in Photograph Competition Venues

Jawaharlal Nehru Stadium



Indira Gandhi Stadium

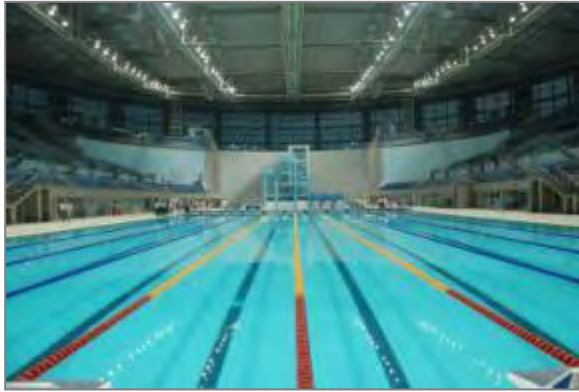


Major Dhyan Chand National Stadium





SPM Swimming Pool Complex



Karni Singh Shooting Ranges



Thyagaraj Sports Complex





Talkatora Indoor Stadium



R.K. Khanna Tennis Stadium



Delhi University Main Ground





Siri Fort Sports Complex



Yamuna Sports Complex





Stadium iPhotographsTraining Venues

Chhatrasal Stadium Athletics



Ludlow Castle Hall



Siri Fort Sports Complex





Yamuna Sports Complex



Jamia Millia Islamia



Delhi University





IBC SETUP BY PRASAR BHARATI FOR COMMONWEALTH GAMES, DELHI 2010

The International Broadcast Centre (IBC) was a non-competition venue which served as the central operational, production, technical and administrative base for the broadcast operations of the Games. It was the headquarters for all television and radio broadcast operations during the Delhi 2010 Commonwealth Games, serving as primary base for the Host Broadcaster and RHBs²⁰ personnel.



It was the nerve centre of all broadcast applications. The pictures generated at individual stadia and other places were carried through to the IBC on the OFC²¹, where, after due processing, the audio- video signals were broadcasted worldwide, for various applications.

The IBC for Delhi 2010 Games was set up at Hall # 8,9,10 and 11 at ITPO, Pragati Maidan New Delhi, which is centrally located and logistically well connected from all the stadia and important places, concerned with the conduct of the Games.

The IBC set up comprised several main areas including: Rights Holders' unilateral space with offices, technical rooms and studios; Bookable services including Off-tube booths, tape play-out facilities, edit

²⁰ Rights Holding Broadcasters(RHB)

²¹ Optical Fibre Cable(OFC)



suites and radio interview studio, the Host Broadcaster Technical Centre, the HB Production Centre and the HB offices.

The IBC Satellite Farm was located near the rear end of the Hall # 11 at IBC. The Media Press Centre (MPC) located at Hall # 12 & 12A was connected through a corridor with the IBC.

The key areas within the IBC that were managed by Prasar Bharati (the Host Broadcaster) are:

- < Contribution, Distribution and Transmission Centre (CDT)
- < Commentary Switching Centre (CSC)
- < Logging and Archives including Highlights Generation
- < Production Quality Control
- < HB Operations Centre
- < Broadcast Information Office
- < HB Booking Office
- < Building Maintenance Centre

First time in the history of Commonwealth Games, the entire Games were be covered on the High Definition Television (HDTV) technology, giving the vivid viewing experience to the viewers, world over. The production & coverage of the sports-events at all the stadia along with the coverage at non-competition venues were carried out on 1080i/ 50 HDTV standard with 16:9 Aspect Ratio. The HDTV signal from all the places were carried through the OFC connectivity to the IBC at ITPO, Pragati Maidan.

Since some of the countries of the Commonwealth fraternity are still transmitting in the SDTV (Standard Definition Television) mode, there was be provision at the IBC for down-converting the HDTV signal to SDTV signal (PAL 625/ 50, Aspect Ratio 4:3). This enabled these





countries to transmit the signal to their home countries in the desired SDTV mode. It means there was the Distribution of the HDTV signal as well as the corresponding SDTV signal within the IBC. This facilitated Delhi 2010 Games to become, the high technology Games.

Even in the Olympic Games history, the Olympics at Beijing 2008, as first major Games prior Delhi 2010 Games, entirely covered on HDTV technology.



MAIN PRESS CENTRE (MPC) & MEDIA CENTRES AT VARIOUS VENUES

Venue: Hall No. 12 & 12A, Pragati Maidan

The Commonwealth Games, 2010 attracted a large number of media persons from India and abroad. In India there is a very large national and regional media presence. In the Press Information Bureau (PIB) HQ for example, around 1500 journalists based at Delhi are accredited. Similarly, all the State Governments have a large number of journalists accredited with them. In addition, there were media contingents coming with the sports teams from the various countries. Some independent journalists from abroad also came to cover the event.

There was a Main Press Centre (MPC) for CWG 2010 at Pragati Maidan which was the centralized media facilitation hub for news and information. Halls 12 and 12A (which are connected) were the venue for the MPC. In addition to MPC, were mini media centers at different stadia.

Press Information Bureau (PIB), a media unit of Ministry of Information & Broadcasting, Government of India, managed the media centers for the Games.

The Main Press Centre was the central work place for the accredited media persons during the 2010 Commonwealth Games and provided 24 hours support and required facilities to the members of the fraternity. The MPC was connected through dedicated network and connectivity was also established with the International Broadcast Centre (IBC) for obtaining Audio/Video feeds as well as for transmission of press conference proceedings for live broadcast through IBC.

The MPC had two Conference Halls, one big and the other relatively small, acoustically treated with requisite lighting, stage furnishing and Sound Reinforcement System. STD/ISD telephones with fax facilities were provided in the reporter work areas. The facilities provided in the MPC include Fixed Reporter work stations, photographer work stations, Laptop work area and was equipped with other facilities in large numbers like Scanners, Fax machines, photocopiers (including bulk copiers with sorter), printers (including high speed colour laser printers), Rack Mount CD writers, Electronic Notice Boards, Touch Screen Kiosk, Video Walls, Large size Plasma Display etc. PIB engaged Broadcast Engineering Consultant India Limited (BECIL), a Public Sector Unit (PSU) under the Ministry of Information &

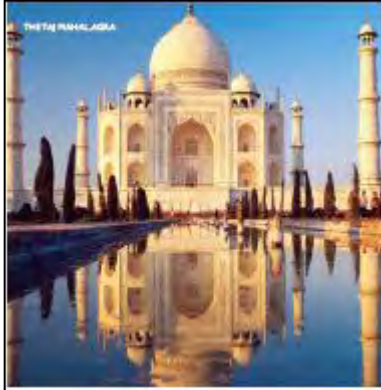


Broadcasting, for technical design, execution and operation of the technical facilities for MPC and Mini Media Centers.



Augmentation of Tourist Accommodation

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100,000 visitors were expected during the Commonwealth Games, 2010.

In order to achieve the targeted no. of rooms a Task Force constituted under the Chairmanship of Secretary Tourism, Government of India constantly monitored the progress. Various Land owning agencies like Delhi Development Authority (DDA), HUDA, DMRC, GDA, Greater Noida etc. worked to meet the mark



In order to further meet the requirement of accommodation DDA with Indian Tourist Development Corporation (ITDC) converted its residential apartments at Vasant Kunj to into hotel accommodation for the period of Games



Bed & Breakfast Scheme, Guest Houses ensured a pleasant and memorable stay for all the guest in the true Indian Spirit of "Attithi devo Bhav'ain Sanskrit which literally means "Guest is Gōd

International visitors got a chance to explore "IncredibleIndia", the rich cultural heritage of the sub-continent through the various tour

options especially designed by the Ministry of Tourism for Commonwealth Games 2010.

The OC CWG Delhi 2010 signed a Memorandum of Understanding (MoU) with India Tourism Development Corporation Ltd (ITDC), officially recognizing Hotel Ashok as the Games Family Hotel. The flagship family Hotel Ashok hosted members of CGAs, the CGF, International Sports Federations, Technical Delegates and the IOA. It was renovated to upgrade rooms and suites, create more parking space and give a facelift to public areas inside the hotel, such as the lounge, lobby and restaurants. The hotel provided facilitation offices of the CGF and OC CWG Delhi 2010. All events and meetings of different constituent groups were held at the Games Family Hotel.



City Infrastructure

Delhi, the capital of India has embarked upon a methodical and ambitious plan for creating and up grading the city infrastructure.

Come 2010 and Delhi will have its finest on display, an exhilarating milieu of rich culture and heritage, with the elegant structures of a modern era, complemented by the famous Indian Hospitality.

- ◁ Ambitious Plan by Government of National Capital Territory of Delhi (GNCTD) for up gradation of city infrastructure
 - 29 flyovers and bridges
 - 150 km of road widening
 - 917 lane km of road strengthening and resurfacing
 - 424 km of street lighting
 - 80 km of street scalping

- ◁ Other Initiatives
 - 3 major road and under bridges-Municipal Council of Delhi
 - 2 flyovers – DDA
 - Work for street lighting an street scaping of major roads and up-gradation of toilets - NDMC

- ◁ In Addition
 - Restoration of Connaught Place commenced
 - Redevelopment of Gole Market
 - Steps taken to augment supply of drinking water and electricity
 - Work in full swing on elevated corridor over Barapulla Nallah for easy accessibility from Games Village to Sports Venues.



List of important Projects undertaken towards Commonwealth Games

Delhi Development Authority (DDA)

- < Flyover at the Intersection of NH-24 & Akshardham Band Road
- < Cloverleaf to Noida More Flyover

Delhi Metro Rail Corporation (DMRC)

- < Airport Metro Express Line
 - New Delhi Railway Station – IGI Airport
 - IGI Airport - Dwarka Sector 21
- < Central Secretariat to Badarpur Line

Government of National Capital Territory of Delhi (GNCTD)

A. Flyovers & Bridge

- < Geeta Colony Bridge
- < ITO Chungi
- < R.R. Kohli Marg
- < Shastri Nagar Pushta Road
- < BJ Marg/ RTR Marg
- < Aruna Asaf Ali Marg/Africa Avenue
- < Nelson Mandela / Vivekanand Marg
- < ROB on Road No. 63
- < Mukarba Chowk
- < Mangolpuri
- < Naraina
- < Azadpur
- < Nangloi NH-10
- < Behra Enclave Under Pass
- < Bridge at Neela Hauz
- < Ring Road bypass from Salimgarh Fort to Velodrom Road
- < Alignment over Barapulla nallah
- < Apsara Border
- < Corridor improvement of Road No.56



< Flyover on NH-24 bye-pass near Ghazipur

B. Roads (Widening and Strengthening)

< Widening of roads (150 lane km.)

< Strengthening & resurfacing of roads (917 lane km.) with recycling and new technologies.

C. Street Lighting and Scaping

< Street Lighting (392 Kms.)

< Street Scaping (150 Kms.)

D. Augmentation of Transport System

< Augmentation of DTC fleet

< Construction of 8 DTC depots :

- Ghumanhera

- Dwarka Sec. 2

- Dwarka Sec. 8

- Okhla - 3

- Narela

- Kanjhawla - I

- Kanjhawla - II

- Rohini - IV

< HCBS Ambedkar Nagar to Delhi Gate - 14.5 Km

E. Augmentation of Water Supply / Sewerage

< Water treatment plant (1 MGD) at Games Village

< Sewerage treatment plant (1 MGD) at Games Village

< Munak Lined Canal

F. Augmentation of Power Supply

< Dadri NTPC Thermal – 980 MW

< Aravalli JV NTPC and Haryana – 750 MW

< Bawana Gas Based – 1500 MW

Municipal Corporation Delhi (MCD)

< JLN marg from Ring road to Thompson marg

< Roads Improvement

< Rail Under Bridge on Railway level crossing near Vivek Vihar Railway station connecting G.T. road to ITI Vivek Vihar

< Improvement of Surroundings of Old and New Delhi Railway stations, Parking areas & Bus Stand

< 50 Mechanical sweepers, fancy dustbins, fluorescent overcoats for employees

< Face lift and Beautification



- < IGIA Terminal 3 Runway and Associated works - Resolution of sewer discharge
- < Under Pass of Flyover on Railway line connecting Lodhi Colony with Thyagraja Nagar

National Highway Authority of India (NHAI)

- < Construction of Badarpur Elevated Highway from km 16.100 to km 20.500 of NH-2 (Badarpur Flyover)

New Delhi Municipal Corporation (NDMC)

- < Street lighting (150 Kms.)
- < Street scaping (Major Roads)
- < Connaught Place Restoration / Redevelopment
- < Gole market Redevelopment
- < 197 Bus Q - shelters

A. Up gradation of Public Conveniences

- < South of Rajpath (94 Nos.)
- < North / South of Rajpath (66 Nos. + 44 Nos. = 110 Nos.) - Phase II
- < Additional Toilet Blocks - 20 Nos.

B. Delhi Health Scheme

- < Equipment for Polyclinic in Games Village
- < 90 Centralized Accident Trauma Services (CATS) and 50 Advance Life Support (ALS) Ambulances



Facilities for Para Athletes & Disabled Persons

JawaharLal Nehru Sports Complex

Athletics

- (a) Para Athletes - All the facilities have been provided in the building viz. accessible toilets, shower chair and proper ramp for accessibility to Field of Play.
Anchors for Para-sports as per the requirement of games have been provided in the field of play.
- (b) Disabled Spectators - Accessible ramp to reach spectator seating in lower tier, accessible toilet as per the requirement.
Stainless steel railing has also been provided in front of wheel chair seating and seats have been provided for their companions.

Powerlifting

- (a) Para Athletes - All the facilities have been provided in the stadia viz. Accessible Toilets with all accessible accessories like Grab Bar, U-shape hinged(movable) grab bar, urinal-chest support grab bar etc. and Proper ramp for accessibility to Field of Play.
- (b) Disabled spectators - Accessible ramp to reach spectator's seating, stainless steel railing in front of wheel chair seats, seats for attendants and designated toilets with all accessories as above.



SPM Swimming Pool Complex

Swimming

- (a) Para Athletes - All the facilities have been provided in the stadia viz. Accessible Toilets with all accessible accessories like Grab Bar, U-shape hinged(movable) grab bar, urinal-chest support grab bar etc. and Proper ramp for accessibility to Field of Play.
- (b) Disabled spectators - Accessible ramp to reach spectator's seating, stainless steel railing in front of wheel chair seats, seats for attendants and designated toilets with all accessories as above.

Yamuna Sports Complex

Table Tennis

- (a) Para Athletes - All the facilities have been provided in the stadia viz. Ramps, Change Rooms with chair & shower, toilets with side arms and seating arrangement etc.
- (b) Disabled spectators - Ramps, toilets with side arms and seating arrangement etc.

Note:-

All the facilities have been provided as per international norms for both Para Athletes as well as Disabled Spectators.



Statutory / Regulatory Clearances of Venues

S. No	Venue	Agency	DJB	Lift (Delhi Govt / CEA)	Electrical (Delhi Govt. / CEA)	Fire (CFO)	Building Completion (MCD/NDMC)
1.	Thyagraj Sports Complex	PWD	√	√	√	√	√
2.	DU Stadium Buildings along with FOP	DU	√	√	√	√	√
3.	Talkatora Indoor Stadium	NDMC	√	√	√	√	√
4.	Siri Fort Sports Complex - Squash	DDA	√	√	√	√	√
5.	Siri Fort Sports Complex - Badminton	DDA	√	√	√	√	√
6.	Yamuna Sports Complex –Table Tennis	DDA	√	√	√	√	√
7.	Yamuna Sports Complex - Archery	DDA	√	√	√	√	√
8.	Karni Singh Shooting Ranges	SAI	√	√	√	√	√
9.	Major Dhyan Chand National Stadium	SAI	√	√	√	√	√
10.	Indira Gandhi Stadium Complex – Gymnastics	SAI	√	√	√	√	√
11.	Indira Gandhi Stadium Complex – Wrestling	SAI	√	√	√	√	√
12.	Indira Gandhi Stadium Complex - Cycling	SAI	√	√	√	√	√



S. No	Venue	Agency	DJB	Lift (Delhi Govt / CEA)	Electrical (Delhi Govt. / CEA)	Fire (CFO)	Building Completio (MCD/NDMC)
13.	R.K. Khanna Tennis Stadium	AITA	×	✓	✓	✓	✓
14.	SPM Swimming Pool Complex	SAI	✓	✓	✓	✓	✓
15.	JLN Sports Complex – Athletics	SAI	✓	✓	✓	✓	✓
16.	JLN Sports Complex – Lawn Bowls	SAI	✓	NA*	NA*	NA*	NA*
17.	JLN Sports Complex - Weightlifting	SAI	✓	✓	✓	✓	✓
18.	Big-Bore Shooting, Kaderpur	CRPF	NA*	NA*	NA*	NA*	NA*