

**MAKE LIST FOR SMART SENSORY PARK**

SI No.	Description of Item	Approved Make / Brand
	<b>Civil works</b>	
1	Reinforcement for conceret works	SAIL/TATA/RINL
2	Paint	Berger/ Asian Paints/ ICICI/ Nerolac
3	MS structural works	SAIL/ TISCO/ UTKARSH
4	Galvanised corrugated sheets	TATA/Esar/Jindal
5	Controlled cement concrete M25 Garde	
6	RMC M25 garde	Ultratech/LnT/FTC
7	Anti termite chemical	
8	Water proofing chemical /compound	Sika / Dr Fixit/ Fosroc
9	White cement	Ultratect/Birla/ACC
10	cement 53 grade	Ultratech, Ambuja, ACC
11	Conceret grass	NILITE Concrete, Pavers India, NIMCO or Equivalent
12	Interlocking pavers	Pavestone/Calstone/GK Pavers
13	Outdoor vitrified Pavers	H&R Johnson/Pavit/Ultra Pavers
15	Poly carbonate sheet	Bare Galvalume / Danpalon / GWX or Equivalent
16	Stainless steel	SAIL, TATA, RINL
17	Bitumen product	IOCL, HPCL, Shell, Shalimar Tar products
16	Aggregate, Stone chips, Sand and Road materials for Base and Sub-base	As per "SPECIFICATIONS FOR ROAD AND BRIDGE WORKS" 5th Revision April 2013, Issued by Ministry of Road Transport & Highway
17	Aluminium doors, windows & partition	Jindal, Indian Aluminium Sections or Equivalent.
	<b>Flooring</b>	
18	Ceramic tiles	HR Johnson, Kajaria, welspun
19	Virtified Tiles	HR Johnson, Kajaria, welspun
20	Glass moasic tiles	HR Johnson, Kajaria, welspun
21	Tactile tiles	HR Johnson, Kajaria, welspun
22	Laminated wood flooring	HR Johnson, Kajaria, welspun
23	Italian marble stone	
	<b>PHE / Water supply</b>	
24	Galvanized iron pipes	TATA, Jindal Hissar, JSW or equivalent
25	CPVC pipes	Supreme, Prince, Garware, Finolex, Astral, Kissan or Equivalent.
26	UPVC pipes	Supreme, Prince, Garware, Finolex, Astral, Kissan or Equivalent.
27	Sanitary fittings	Jaguar, Parry ware, Hindware, Cera
28	Sanitary ware	Hindustan, Parryware, Jaguar, Cera
	<b>Interior works</b>	
29	Ply wood	Century/ Green / Globe
30	Venner	Century/ Green / CityLam
31	Laminate	Century/ Green / CityLam
32	Glass	Modi, ASAHI, Saint Gobain, Hindustan
33	Fittings and accessories	Dorma/ Ozone/ Godrej
34	<b>Out Door furniture</b>	Experio
35	<b>Play equipment</b>	Bodyline/Kompan/Experio
	<b>FIRE SAFETY ENGINEERING WORKS</b>	
36	ISI (IS: 2590) marked Oblique type Stainless Steel Single Headed Hydrant Valve/ Landing with PVC Blank Cap & GI Chain.	GEI/ Seal Fire/ Safe Guard/ NewAge
37	Hose Reel & Accessories	Mitras/ Zenith Engineers/ Seal Fire/ GEI/ NewAge
38	Ball Valve	Zoloto/ Leader/ Itap.
39	CI Wafer type hand lever operated Butterfly Valve of Class # 150.	L&T-Audco/ Zoloto/ Koley/ Kartar.

40	4Way Fire Brigade Connector	GEI/ Seal Fire/ Safe Guard/ NewAge
41	MS Fire Hose Box	Zenith/ GEI/ Seal Fire/ Safe Guard/ NewAge
42	RRL Hose	BRG/ Safe Guard/ Seal Fire/ NewAge
43	Stainless Steel Branch Pipe with Jet Nozzle of 20mm Ø.	GEI/ Seal Fire/ Safe Guard/ NewAge
44	MS ERW Black Pipe	TATA/ Jindal/ Bansal
45	Electric Motor Driven Fire Pump	Pump - Kriloskar / CGL / Mather & Platt/ KSB Motor - Kriloskar/ Crompton/ CGL/ ABB
46	Composite Auto Pump Control Panel	
47	Pressure Switches (Model RT-116) including supply of 15NB GM/ SS Ball Valve.	Pressure Switch : Indfoss. Ball Valve : Zoloto/ Leader/ Itap
48	Pressure Gauge	H.Guru/ Feibi/ Waree
49	CI Wafer type hand lever operated Butterfly Valve of Class # 150	L&T-Audco/ Zoloto/ Koley/ Kartar.
50	CI Double Flanged Gate Valve	Koley/ Kartar/ Subhas Engineering/ Kalpana
51	CI Double Flanged Basket-Type Foot Valve with Strainer with Stainless Steel mesh.	Koley/ Kartar/ Subhas Engineering/ Kalpana
52	Copper/ Aluminium Control/ Power Cable.	Mescab/ Polycab/ Finolex/ Glostar
53	Fire detection and alarm system with pa system	Honeywell/ Apollo/ Simens/ Esser/ Morlay
54	Amplifier and switch circuit	Phillips/ Ahuja/ Bosch
55	Fire extinguisher	Fire Shield/ Deflame/ Minimax
	<b>SIGNAGE</b>	
56	Photoluminescent Signages	Autoglo/ Glo-Lite/ Prolite
	<b>Electrical</b>	
57	11 KV/ 415 V Outdoor Compact substation (CSS) generally as per IEC 1330 of area footprint 4000mmX 4000mm comprising of:	ABB, Kirloskar,Crompton Greaves, CS Electric,Power Line,AKTIF,
58	cast resin 200KVA dry type transformer as per IS 2016/ IS 11171 , 3 Phase 50 Hz, 11 KV/ 415 V Class F insulation solidly earthed complete with rollers, lifting lugs etc	ABB,BHEL,VoltAmp,Areva,OEM,Thoshiba
59	Ht switchgear, 2 way 11KV (250~350 A) VCB complete with operating mechanism, protection system, cable box etc	ABB,Seimens,Areva,Schneider
60	Lt 415 V 400 Amp, ACB incoming with all connections, accessories, fittings and auxiliary equipments	ABB,Seimens,Areva,Schneider,L&T
61	100 KVA outdoor-type water-cooled DG set in noise-dampener enclosure, with AMF panel compete with all accessories e.g. engine, alternator, fuel tank, SS exhaust system etc size 4000X 2500	Kirloskar,Cummins,Koel green,Mahindra Powerol,Super Nova
62	MCB & MCCB	ABB,GE,MDS,Schneider,L&T
63	Cables	Universal,Havells,KEC,KEI,Finolex
64	Cable Termination	UCIL Synchem,Yamuna cable,Compaq international,Rachem RPG,ASCON
65	Earthing electrode	Laxmi Power Solutions,Gmax electric,SG Power,Sabo systems,Saara India
66	The Outdoor Lighting panels/Junction Boxes shall conform to IS-8623/Latest IS/IEC/IEEE standards.	
67	Solar Panels	Tata Power Solar Systems Ltd, EMMVEE, Moser Baer Solar Ltd. (MBSL), Vikram Solar,Kotak Urja Pvt Lt
68	UPS	Luminious,Sukam,Genus Power,Microtek,
69	Fans	Crompton Greaves, Bajaj, Havells, Usha,orient
70	Relays	ABB, seimens,Areva, schneider,Ashida
71	<b>OUTDOOR LIGHTING</b>	
72	Supply, installation, testing and Commissioning of of decoraive type Streetlight POLE 2 M height complete with loopbox connections & containg 1 no. 6Amp SP MCB including LED 11W lumiere	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells 3) Street Light poles confirm to latest IS/IEC/IEEE standards, for Street Tubular poles-IS-2713 standard

73	Supply, installation, testing and Commissioning of of high-mast 6M Streetlight POLE complete with loopbox connections & containing 1 no. 10Amp SP MCB including LED 70W X 3 lumiere	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells 3) Street Light poles confirm to latest IS/IEC/IEEE standards, for Street Tubular poles-IS-2713 standard
74	Supply, installation, testing and Commissioning of of outdoor type weatherproof JB for loop-in loop-out purpose to be fixed on lightpoles	The Lighting panels/Junction Boxes shall conform to IS-8623/Latest IS/IEC/IEEE standards.
75	Supply, installation, testing and Commissioning of of outdoor type lighting bollards with 9W LED lumiere	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
76	Supply, installation, testing and Commissioning of of external wall-bracket 11W LED lumiere for building illumination	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
77	Supply, installation, testing and Commissioning of of Construction of spike earthing PIT with 20mm dia 2M lond MS rod for streetlight pole/ High-mast with 2 nos 8 SWG Gi wire complete all accessories etc as reqd	Earthing electrode-Laxmi Power Solutions,Gmax electric,SG Power,Sabo systems,Saara India,JMV LPS or its equivalent confirm to latest IS/IEC/IEEE standards
	<b>ILLUMINATION/ LIGHTING FIXTURE</b>	
78	Supply, installation, testing and Commissioning of of surface mounted downlighter with 11W LED lumiere complete with all accessories	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
79	Supply, installation, testing and Commissioning of of recessed downlighter with 11W LED lumiere complete with all accessories	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
80	Supply, installation, testing and Commissioning of of external bulkhead with 12KW lumiere complete with polycarbonate cover	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
81	Supply, installation, testing and Commissioning of of movable type 12W LED dowligher spot on 1M track-circuits	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
82	Supply, installation, testing and Commissioning of of mirror light in toilets with 5W LED lumiere	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
83	Supply, installation, testing and Commissioning of of 600X600 sqMM recessed downlighter with mirror-optics and 18W X2 lumiere in workshop, conservation LAB & gift shop	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
84	Supply, installation, testing and Commissioning of of surface-mounted LED tubelight 20W	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
85	Supply, installation, testing and Commissioning of of indoor type LED ropelight with 5W lumiere per metre	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
86	Supply, installation, testing and Commissioning of of indoor type Bracket Luminaire 30W LED (Karona Fort - KLite)	1) MCB-ABB,Schneider,GE,L&T,MDS,Havells,Legrand 2)Luminaire-Philips,Bajaj,Wipro,Havells
	<b>CCTV</b>	
87	Supply, installation, testing and Commissioning of of 24 channel upto 8 TB of HDD supported HDMI in HD 1080 network video recorder CNS NTP server, synchronization, camera I/O and remore I/O solution, mutiple platform mobile support	Server make to be Dell, HP or Lenovo
88	Supply, installation, testing and Commissioning of of bullet camera 50/60 FPS, 1920X1080 to 160X90 resolution to 2 MB counter, remote zoom, remote focus, supporting micro SD card	Make to be Bosch, Honeywell, Hikvision, Dahua, Axis, Pelco, Tyco, Infinova or equivalent
89	Supply, installation, testing and Commissioning of of DOME camera 25/30 FPS, 1920X1080 to 160X90 resolution to 2 MB counter, POE supporting micro SD card	Make to be Bosch, Honeywell, Hikvision, Dahua, Axis, Pelco, Tyco, Infinova or equivalent
90	Supply, installation, testing and Commissioning of of accessories of POE adapter/ injector/ ethernet/ Axis T8120, 15W, Midspan, 1 port	

91	Supply, installation, testing and Commissioning of of 4TB surveillance HDD	Make to be Transcend, Sony, Seagate, WD, Western Digital or Toshiba
92	Supply, installation, testing and Commissioning of of 16 port managed Gigabit switch	Make to be D Link, DigiLink or Netgear
93	Supply, installation, testing and Commissioning of of 5 port unmanaged normal switch	Make to be D Link, DigiLink or Netgear
94	Supply, installation, testing and Commissioning of of 60 inch LED screen	Make to be Delta, Samsung, LG or Sharp