Karimnagar Smart City Corporation Limited (KSCCL)

EXPRESSION OF INTEREST AND INVITATION OF QUOTATIONS

for

KSCCL desires to invite Competitive Quotations from reputed vendors for **Various Items as mentioned in the detailed Part- A to Part- AM; such as Structural Glass Flooring Works, Lifts, Fountains, CCTV Cameras, Tennis Court Flooring, EPDM Flooring, Kid's Play Equipment, Outdoor Lighting, Electric Works and Landscape & Plantation Works, Drip/ Sprinkler System and Parametric Pavilion etc.,** to be implemented for various projects at Karimnagar under Smart City Mission.

Invited by:
Managing Director & Chief Executive Officer
Karimnagar Smart City Corporation Limited E-mail:
mdksccl@gmail.com
Tel No: +919849906691

KARIMNAGAR SMART CITY CORPORATION LIMITED (KSCCL), KARIMNAGAR

Ref: 17/KSCCL/2021-22 dated 04.08.2021

Invitation for Expression of Interest

KSCCL desires to invite Competitive Quotations from reputed vendors for **Various Items as mentioned in the detailed Part- A to Part- AM; such as Structural Glass Flooring Works, Lifts, Fountains, CCTV Cameras, Tennis Court Flooring, EPDM Flooring, Kid's Play Equipment, Outdoor Lighting, Electric Works and Landscape & Plantation Works, Drip/ Sprinkler System and Parametric Pavilion etc.,** to be implemented for various projects at Karimnagar under Smart City Mission. The detailed Specifications and BOQ can be downloaded from website of **www.karimnagarcorporation.telangana.gov.in** and will be available from **04.08.2021** onwards**.** ***The last date for submission of proposals is 18.08.2021 up to 17.00 Hrs.***

For more details contact:

Karimnagar Smart City Corporation Limited

E-mail: mdksccl@gmail.com

cc: tlkarimnagar@aarvee.net

Mobile No: 9849906691 & 9538210099

Sd/-
Managing Director,
KSCCL

Item List of this EOI: -

Following are various items of work for which quotations are invited.

S. No	Part	Description	Remarks
1.	**Part- A**	Glass Works (Walkable Glass Flooring)	Design and quotations
2.	**Part- B**	Lifts	Quotations
3.	**Part- C**	Drain Cell	Quotations
4.	**Part- D**	Flowerpot	Quotations
5.	**Part- E**	Fountain System at Skywalk	Design and quotations
6.	**Part- F**	Fountain System at Tower Circle	Design and quotations
7.	**Part- G**	EPDM Flooring at Walking Track	Quotations
8.	**Part- H**	EPDM Flooring at Play Area	Quotations
9.	**Part- I**	End Cap	Quotations
10.	**Part- J**	Geotextile Sheet	Quotations
11.	**Part- K**	FRP based RWH Filter	Quotations
12.	**Part- L**	Polymer based Honey-Comb Structure	Quotations
13.	**Part- M**	CCTV Camera	Quotations
14.	**Part- N**	Mural painting	Quotations
15.	**Part- O**	Heat Reflective Paint	Quotations
16.	**Part- P**	Sports Acrylic Paint	Quotations
17.	**Part- Q**	Perforated Casing Pipe	Quotations
18.	**Part- R**	Tennis Court Flooring & Accessories	Quotations
19.	**Part- S**	Back Board for Basketball Court	Quotations
20.	**Part- T**	V- Groove	Quotations
21.	**Part- U**	Filling Cracks in Walls	Quotations
22.	**Part- V**	Art Sculptures at Road Junctions	Design and quotations
23.	**Part- W**	Granite Boulders	Quotations
24.	**Part- X**	Landscape and Plantation Works	Quotations

S. No	Part	Description	Remarks
25.	**Part- Y**	Outdoor Lightings	Design and quotations
26.	**Part- Z**	Entrance and Internal Sign Board	Quotations
27.	**Part- AA**	Electric Works	Quotations
28.	**Part- AB**	Eco-Friendly Kiosks	Design and quotations
29.	**Part- AC**	Tree House	Design and quotations
30.	**Part- AD**	Low Cost Design Features	Design and quotations
31.	**Part- AE**	Play Equipment	Quotations
32.	**Part- AF**	Drip/ Sprinkler for Irrigation	Quotations
33.	**Part- AG**	Dancing Musical Fountain at MPS Park	Design and quotations
34.	**Part- AH**	Automatic Boom Barrier	Quotations
35.	**Part- AI**	CCTV Surveillance at MPS Park	Quotations
36.	**Part- AJ**	RO Water Purification System	Quotations
37.	**Part- AK**	Art Sculpture at MPS Park	Design and quotations
38.	**Part- AL**	Parametric Pavilion	Design and quotations
39.	**Part- AM**	EVA Foam Soft Floor Mat Tiles	Quotations
40.	**Part- AN**	Water Management District / Outlet Management system (13 DMA Valves)	Quotations

1. Detailed Bills of Quantities (BOQ) for Part ‘A’ to Part ‘AN’ are given at Page 11 to 73.

2. Respondent Quoting for specialized items such as **Fountain Systems (Part E, F & AG), Art Sculptures (Part V, AK), Structural Glass Flooring Works (Part A), Flowerpots (Part D), Eco-friendly Kiosks (Part AB), Tree House (Part AC), Low Cost Design (Part AD) and Parametric Pavilion (part AL)** may have to give a detailed presentation, as may be decided by the authority inviting EOI.

KEY DATES

No.	Activity	Deadline
1	Issue of Document	05.08.2021, 1:00 PM
2	Last date for receipt of queries on EoI	09.08.2021, 5:00 PM
3	Posting of response to queries	13.08.2021, 5:00 PM
4	Last date for submission of EoI	18.08.2021, 5:00 PM

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1 Introduction

1.1 KARIMNAGAR

Karimnagar city is a Municipal Corporation and district headquarters of Karimnagar district. Karimnagar has been included in the Centre's Smart Cities Mission program along with 30 other cities which were shortlisted under Round 3 of Smart City challenge. As part of the challenge, Karimnagar has set its vision, "To develop Karimnagar into a major **commercial, and tourism hub in northern Telangana** facilitated through a digital transformation of City life, and to create an Inclusive, Skilled and Gender-sensitive society."

1.2 Karimnagar Smart City and its themes

The five themes as building blocks, Karimnagar SCP proposed various developmental projects for the city under two categories i.e. Area Based Development (ABD) and PAN City Development covering a wide range of sectors namely Urban Transportation, Riverfront development, Slum Rehabilitation, Affordable Housing, Water Supply, Sanitation, Sewerage, Solid Waste Management, Smart Governance, Digital, and Energy Infrastructure, etc. The central area (2390 acres) of the city has been chosen for the ABD proposal to transform it into a thriving business community.

1.3 Karimnagar Smart City Corporation Limited

Karimnagar Smart City Corporation Limited (KSCCL) is formed as a Special Purpose Vehicle (SPV) to execute Smart City projects in Karimnagar Smart City. Under the Smart City mission, the SPV is tasked at implementing projects falling under ABD and Pan-City components of Smart City Mission (SCM).

Karimnagar Smart City Corporation Limited (KSCCL) has appointed M/s Aarvee Associates Architects Engineers & Consultants Private Limited in consortium with M/s PricewaterhouseCoopers (PwC) Private Limited as Project Management Consultant (PMC) to Design, Develop, Manage & Implement Smart City Projects in Karim Nagar, Telangana.

1.4 Authority issuing Invitation for EOI

The Karimnagar Smart City Corporation Limited (the Authority) wishes to incorporate the Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation for Development of Karimnagar under Smart City Mission.

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The Authority reserves the right to reject any or all the Quotations received without assigning any reason.

Point of contact for any queries related to the EOI:

Sri. Krishna Rao

Superintending Engineer

Telephone / Mobile: +91-98499-06691

Mail:mdksccl@gmail.com; tlkarimnagar@aarvee.net

All **interested respondents are expected to read carefully all instructions, forms, terms and conditions and other details in this document**. The respondents are also expected to have a detailed site visit and study of all the proposed project site/location. Failure to furnish the complete information Pertaining to the particular part of BOQ may lead to rejection of the quotation of the respondent.

1.5 Eligibility

a) The invitation is open to all entities that are Sole Proprietorship, or Partnership Firms or companies or agencies that are registered under appropriate category.

b) The respondent should be operational continuously for the Last one year as on the date of submission.

c) The respondents may be an independent single entity or a joint venture or a consortium/association of entities;

d) In the case of a joint venture / consortium the name of the entity that is the "Lead Partner/Lead Member" should be clearly stated in the Quotation.

e) The number of entities in a joint venture/consortium/association is limited to 3 (Three).

f) The respondent (single independent entity or any partner/member of a joint venture / association / consortium) should not have been blacklisted / debarred by any donor agency/State Government/Central Government or its agencies in India or abroad and if blacklisted/debarred for a particular time, such bar (blacklisted/debarred) should not be applicable as on the date of submission of the Quotation.

g) The respondents are expected to be Distributors/Manufacturers who can meet the scope of work in total.

h) Decision of the Authority, regarding the eligibility, is final and binding.

1.6 Invitation of this Quotation Conditions

a) The respondents can quote for any single part or all the parts that the

respondent is capable of executing the works.

b) This request for Quotation is not an offer and does not carry any commitment to engage a private partner who submits the same or any other commitment related thereto.

c) The Authority reserves the right to withdraw this request for Quotation and change or vary any part thereof at any stage if the Authority feels that such action is in the best interest of the Project. Decision of the MD KSCCL is final and binding in this regard.

d) Timing and sequence of events resulting from this request for Quotation shall ultimately be determined by the Authority.

e) Each interested single independent entity, any partner in case of a joint venture or any member in case of an association/consortium shall submit only one Quotation.

f) For all the Quotations received before the last date and time prescribed for submission, the proposals and accompanying documentation will become the property of Authority and will not be returned after opening of the proposals. Authority shall not be bound by any language in the proposal indicating the confidentiality of the proposal or any other restriction on its use or disclosure. Authority is not restricted in its rights to use or disclose any or all of the information contained in the proposal and can do so without compensation to the respondents who have submitted their Quotations.

g) The respondent shall ensure that the proposal is complete in all respects and conforms to all requirements indicated in this invite document.

1.7 Submission of Quotation

Interested entities who meet the eligibility conditions set forth in this document, may furnish their Quotation with all the necessary documents in a sealed envelope super-scribed **"Quotation for Invitation for quotations for Various Items as mentioned in the detailed Part- A to Part- AN; such as Structural Glass Flooring Works, Lifts, Fountains, CCTV Cameras, Tennis Court Flooring, EPDM Flooring, Kid's Play Equipment, Outdoor Lighting, Electric Works and Landscape & Plantation Works, Drip/ Sprinkler System and Parametric Pavilion etc."**

duly signed by an authorized signatory on or before as per key dates to the following address and obtain acknowledgement of submission for the same:

Managing Director & Chief Executive Officer

Karimnagar Smart City Corporation Limited

C/O KARIMNAGAR Municipal Corporation, Opp:

TSRTC Bus-stand KARIMNAGAR 505001,

Telangana India.

E-mail: mdksccl@gmail.com;

tlkarimanagr@aarvee.net

Mobile: +91-9849906691

Note:

1. Incomplete Quotation's will be rejected.
2. The Authority reserves the right to extend the Quotation submission date.
3. The Authority reserves the right to verify the furnished details & documents at any point of time as may be determined by the authority, furnished by the respondents independently and also reserves the right to reject any proposal without assigning any reason thereof in the interests of effective implementation of the project.

1.8 Detailed Bill of Quantities (BOQ) along with Detailed Specifications

Part "A" through Part "AM".

PART "A" - SUPPLY AND INSTALLATION OF STRUCTURAL GLASS FLOORING WORKS (WALKABLE GLASS FLOORING) AS PER THE SPECIFICATIONS AND AS INSTRUCTED BY ENGINEER IN-CHARGE

S. No	Description of item	Qty
1	Supply and installation of transparent structural glass flooring capable of sustaining 10 KN/sqmt, and minimum 25mm thick as per the specifications and as instructed by Engineer in-charge at Skywalk- Iconic Structure • Glass flooring at central block • Semi Circular Glass Flooring at Central Block • Central Block Outer Side • Central Block Inner Side Cantilevered Glass Flooring Makes: Saint Gobain/ Modi/ TATA/ AGC (Asahi) or equivalent as approved by KSCCL	1 sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "B" - SUPPLY AND INSTALLATION OF LIFTS AS PER THE SPECIFICATIONS AND AS INSTRUCTED BY ENGINEER IN-CHARGE

S. No	Description of item	Qty
1	Supply, Transportation, Installation, Testing and Commissioning of 10 Passenger Lift 1. Capacity: 10 passengers 2. No. of Floors: Cellar + Ground+ 2 Floors+ Terrace 3. Available Well Size: 1.95m x 2.5m 4. No. of Entrances: 1 location (Front) 5. Type of Car Enclosure: Stainless Steel 6. Ceiling: Stainless Steel 7. Flooring: PVC 8. Electric Light: LED 9. Fan: Axial Flow 10. Car Entrance: Stainless Steel - Center Opening Automatic Power Door 11. Landing Entrance: Stainless Steel - Center Opening Automatic Power Door 12. Rescue Device to be provided 13. Indicators Car & Landing: White (Direction & Position) 14. Emergency Alarm bell 15. Intercom Provision 16. Load Weighing Device 17. Fireman Rescue Device 18. Manually Operated Rescue Device 19. Emergency Light Makes: Mitsubishi/ KONE/ Schindler/ Schneider/ ThyssenKrupp or equivalent as approved by KSCCL	1 nos

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "C" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE DRAIN CELL

S. No	Description of item	Qty
1	Supply and installation of Drain cell 30mm thick in size complete as directed by Engineer-in-charge Drain cell for planter drain	1 sqm

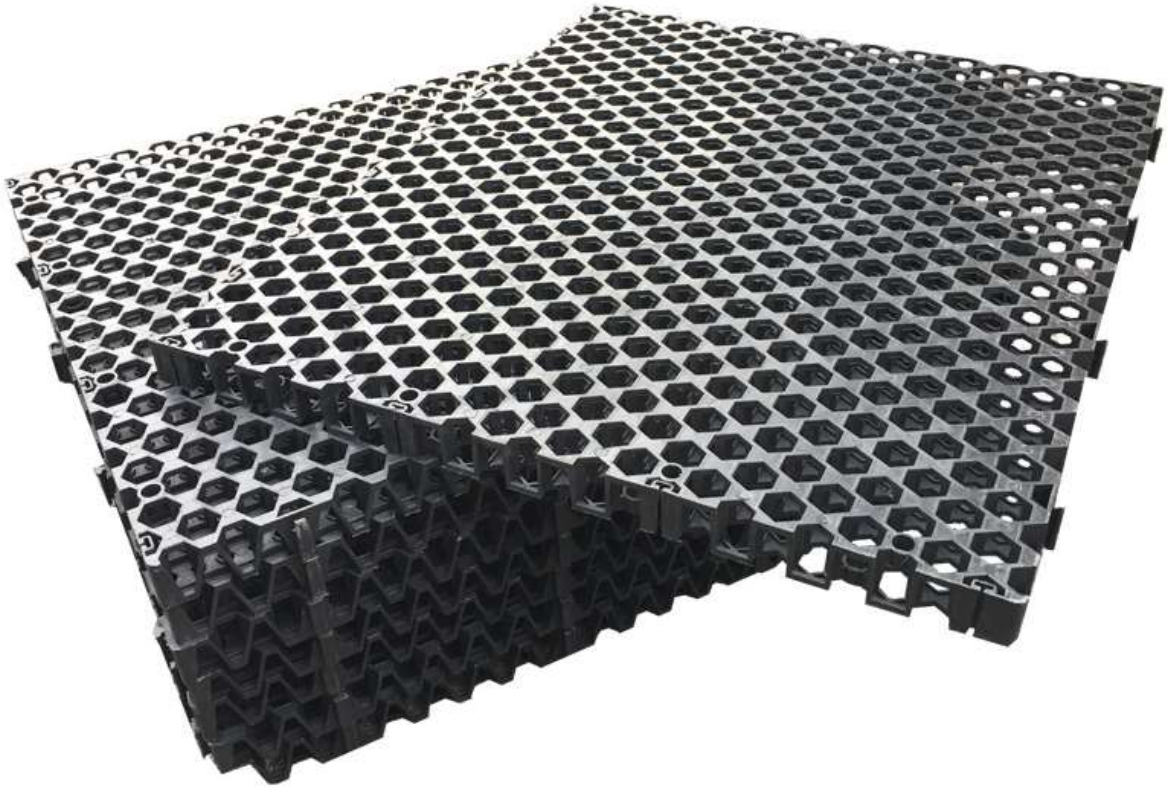


Figure 1: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "D" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FLOWERPOTS

S. No	Description of item	Qty
1	Supply and placing of round shape Flowerpots.	1 nos

Figure 2: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "E" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FOUNTAIN AT SKYWALK

A circular space of 14m inner dia. accordingly you can Propose your drawings and various design options with animated video along with your respective quotations. With respective you can add the Operation and maintenance with one year period. We are arranging the space for panel boards, Electrical items. Hence you need not consider civil items.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.
Note: Minimum 2 years of warranty shall be assured by the respondent.

Figure 3: Reference Image

PART "F" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FOUNTAIN AT TOWER CIRCLE

S. No	Description of item	Qty.
1	Fountain (according to selected design): GI Crown Ring 2.5 inches B-class pipe Or (Concealed 3 inches 6kg UPVC pipe line)with formation of complete bemding /welding / theading and finished with micro water proof silver paint etc comlete work ccording to tnk size (14 feets dia approximately). Nozzles 8 nos of Bell nozzles (rivers bell, Foam nozzle according to drawing.	1 Unit
2	Fittings: GI/schedule 80UPVC 3 inche to 1 inche complete fitting like ball walls /Elbow/Nipples/pipe line etc. complete work.	1 Unit
3	Pump: 7.5HP Open Well submersible 4x3 section and delivery genral engineering company a special make of high speed fountain motor /equalent and cable 4 sqmm flat cable with duct protection water proof spring cable and complete electrical work with water proof jointing etc complete.	1 Unit
4	Panel Box: A power coated double door panel box fitting with L&T starter 1 no and 1 starter option fuses and amps meter and volta meter etc. complete and cable and RCCB switch for lights and angular ars etc . Complete and 4Sqmm cable up to sump to panel box with protected water proof duct and flexible cable etccomplete work with cable.	1 Unit
5	Lightings: RCB 55 volts Multi colour flood lights with water proof protecton (duct) cable and 1.5 sqmm 3 core cable sump to panel box etc complete work with cable and electrical water proof jointing and complete electrical work.	1 nos
6	Including of Transportation /accommodation and technician work etc including of a period of two years free maintains for technical problems	

Figure 4: Reference Image

PART "G" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE EPDM FLOORING ON WALKING TRACK

S. No	Description of item	Qty
1	Supply & Installation of 15mm Thick Wetpour (non spike) consisting of sandwich two layers where base layer having 9mm Thickness would be made of Black Styrene-Butadiene Rubber granules and finished layer of 6mm would be made of Per-Oxide Size 1-4mm Ethylene Propylene Diene Monomer granules with 20% base polymer content, these granules to have gravity 1.6 kg/cm3, hardness Shore A value 60-65, Tensile Strength >4.0 Mpa and elongation @ Break to be >400%. These granules must be mechanically cut with proper sieve analysis system. Raw material ingredients would be mixed with pale yellow colour Clear viscous liquid Poly-urethane Binder in 50 kg drum having NOC Content within permissible limit of 9.50 to 10.5%. Mixing ratio of Binder with weight of rubber material should not be less than 18%. Make; EBACO/ Arihanth/ GroundsKart or equivalent as approved by KSCCL	1 sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "H" - SUPPLY & INSTALLATION/ SURFACING, COMMISSIONING OF EPDM SAFETY FLOORING WITH 36MM THK AT CHILDREN PLAY AREA LOCATION.

S. NO	Description	QTY
1	Supply, Delivery, Installation & Commissioning of EPDM layer of thickness 6mm & 30mm of Rubber crumps or SBR Layers at the location of children play area including transportation and all other charges excluding GST to the site as per the directions of the Engineer-in-charge. Make; EBACO/ Arihanth/ GroundsKart or equivalent as approved by KSCCL	1 Sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "I" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE END CAP

S. No	Description of item	Qty
1	Supply and delivery suitable size of End Cap of PVC to the top of bore well housing/ casing pipe, removable as per requirement, all complete for borewell as directed by Engineer-in-Charge. (including transportation) **160mm Dia**	1 nos

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "J" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE GEOTEXTILE SHEET

S. No	Description of item	Qty
1	Providing and fixing of non-woven geotextile having thickness of 400 GSM, having minimum tear strength of 250 ASTM D4533, Width wise atleast 215 ASTM D4533 having puncture strength of 1550 plus asper ASTM D6241 Having elongation at Break of 57% plus as per ASTM D 4595 in two layers, made out of long fibres to hold the modules including cutting, sizing, Heat welding and needle punched for high porosity and proper percolation. complete as per entire satisfaction of engineer-in-charge. (Including Transportation) **Sides** **Base & Top** **Sides**	1 sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "K" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FRP BASED RWH FILTER

S. No	Description of item	Qty
1	Providing of FRP based filtration device with diameter of 750 mm and height 1000 mm having inlet of 200mm and outlet of 200mm. capable of filtration in two stage, upper layer has SS304 mesh which can filter out solid suspended particle up to 600 microns & lower membrane is capable of filtering up to 90 microns. Flow rate of filtration device is upto 60 KL / hr. (FRP based RWH Filter). Approved from GRIHA & CGWB complete (GRIHA V.3 criterion: 21GRIHA V.2015 criterion: 18 & SVAGRIHA criterion: 9) as per entire satisfaction of engineer-in-charge. (Including Transportation)	1 nos

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "L" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE POLYMER BASED HONEYCOMB STRUCTURE

S. No	Description of item	Qty
1	Supply & installation of Polymer based modules of make Honeycomb Structure made up of recycled polypropylene capable of taking light vehicular movement upto 31 tonnes with adequate backfilling & 4 small plates combination creating 3 spans inside the module. These modules are made from combination of large (685*410mm) and small (370*411mm) plates along with external locks. Each large plate should have minimum fourteen external locking slots in order to give stability to tank. These tanks should have optimum connection & block stability using double lock stability. Each single tank is made of four large and four small plates in case of single tank and 10 large & 12 small plates for triple tank. Capacity of single tank is (.685*.410*.450 mtr) equals to 0.126 CUM (gross). Weight of each large plate should be minimum 1.2 Kg and each small plate should be atleast .55 Kg. The design to be approved by Engineer-in-Charge. (Including Transportation)	1 cum

Figure 5: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "M" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE CCTV CAMERA

S. No	Description of item	Qty
	2MP IP Dome Camera Image Sensor 1/2.8" progressive scan CMOS Min. Illumination Color: 0.01 Lux @ (F1.2, AGC ON), 0.028Lux @ (F2.0, AGC ON) Shutter Speed 1/3 s to 1/100, 000 support slow shutter Slow Shutter Yes Auto-Iris No Day & Night IR cut filter Digital Noise Reduction 3D DNR WDR Digital WDR Angle Adjustment Pan: 0° to 360°, tilt: 0°to 75°, rotation: 0° to 360°Lens Focal length 4 mm, 6 mm Aperture F2.0 Focus No FOV 4 mm, horizontal FOV 86°, vertical FOV 46°, diagonal FOV 102° 6 mm, horizontal FOV 54°, vertical FOV 30°, diagonal FOV 62° Lens Mount M12	1 nos
	CCTV Cameras	
	16CH NVR HD Input l H.265+/H.265/H.264/H.264+video formats l Connectable to the third-party network cameras l Up to 16 IP cameras can be connected l Recording at up to 8 MP resoluon l Supports live view, storage, and playback of the connected camera at up to 8 MP resoluon HD Output l HDMI and VGA independent outputs l HDMI Video output at up to 4K (3840 × 2160) resolution HD Storage l 2 SATA interfaces connectable for recording and backup l H.265+ compression effectively reduces the storage space and costs by up to 75% HD Transmission l 1 self-adaptive 10/100/1000 Mbps network interface	1 nos
	Network video recorder	
	2 TB Hard disk	1 nos
	16 port POE Switch	1 nos
	CAT 6 CABLE	1 rmt
	RJ 45 JACKS	1 nos
	Installation & Configuration Installation commissioning and testing of CCTV cameras, connecting cables, Power adapters and configuration of NVR.	1 nos

S. No	Description of item	Qty
	Supply & Installation of 24" LED display monitor/Video wall with resolution of 1920x1080 full HD with Security lockslot, power connector, HDMI ports & Audio line out Port	1 nos
	Make: Samsung/ SONY/ CP Plus/ Hikvision/ LG/ Bosch or equivalent as approved by KSCCL.	

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "N" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE MURAL PAINTING

S. No	Description of item	Qty
1	Painting of on walls for govt buildings, compound walls etc., with traditional, culture and curli paintings or Mural Painting a) First coat of branded whitewash b) Second coat of emulsion painting c)Third coat painting drawing traditional, cultural painting including cost and conveyance of all material to site and labour charges etc complete for finished item of work as directed by Engineer-in-charge. **For Ground Floor Classrooms-Internal walls** **Ceiling Painting** **Compound Wall**	1 sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "O" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE HEAT REFLECTIVE PAINT

S. No	Description of item	Qty
1	Painting with Heat reflective paint to roof slabs in 2 coats including cost and conveyance of all materials to site, incidental, operational and all labour charges etc., complete for finished item of work in all floors. (SS No. 1201, 1212 & 1207) Complete as directed by Engineer-in-charge Makes: Asian/ Nerolac/ Berger/ Nippon or equivalent as approved by KSCCL	1 sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "P" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE SPORTS ACRYLIC PAINT

S. No	Description of item	Qty
1	Acrylic courts give the necessary speed, texture, and vibrant colors. Acrylic Coating Systems are multi-layer latex-based paint systems that establish or restore surface texture, protect underlying asphalt systems from the weather and climatic change, enhance overall playability by establishing play speed and ultimately provide the surface with a vibrant color scheme. 8 Layer System: - (1 primer + 1 resurfacer + 2 layers of rubber cushioning + 2 layers of Acrylic pre coats + 1 acrylic top coat blended with UV pigments) Product Specification • High density for improved strength. • Environment friendly. Make; EBACO/ ACT Sports/ GroundsKart or equivalent as approved by KSCCL	1 sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "Q" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PERFORATED CASTING PIPE

S. No	Description of item	Qty
1	Supply and delivery of unplasticized PVC medium well casing (CM) perforated pipe of required dia, conforming to IS: 12818, including required hire and labour charges, fittings & accessories etc. all complete (including transportation) **160mm Dia** Make; Nandini/ Supreme/ Finolex/ Sudhakar or equivalent as approved by KSCCL	1 rmt.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "R" – TENNIS COURT FLOORING & ACCESSORIES

S. NO	Description	QTY
1	Acrylic courts give the necessary speed, texture, and vibrant colors. Acrylic Coating Systems are multi-layer latex-based paint systems that establish or restore surface texture, protect underlying asphalt systems from the weather and climatic change, enhance overall playability by establishing play speed and ultimately provide the surface with a vibrant color scheme 8 Layer System: - (1 primer + 1 resurfacer + 2 layers of rubber cushioning + 2 layers of Acrylic pre coats + 1 acrylic top coat blended with UV pigments) Product Specification • High density for improved strength. • Environment friendly.	1 Sqm
2	Moveable Tennis poles along with professional net - Movable Post Made of 80mm x 80mm MS pipe - with special internal ratchet system for tightening of rope - The ratchet enables perfect tension control of the net - with PVC weight 150 kg on each side - with branded Net - Epoxy painted	1 Pair

Make; EBACO/ ACT Sports/ GroundsKart or equivalent as approved by KSCCL

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "S" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE BACK BOARD FOR BASKETBALL COURT

S. No	Description of item	Qty
1	Supplying & Fixing of pair of Rectangular Back board for Basketball court of 1.80m x 1.20m, 25mm thick of standard size as per approved drawings & directions of the Engineer in Charge including cost of material, transportation, labour charges for fixing to the existing posts with all necessary arrangements and over heads & contractor's profit etc. complete for finished item of work.	1 pair

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "T" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE V-GROOVE

S. No	Description of item	Qty
1	Making a v groove in cracked surface, clearing all the loose material and making it Surface Saturated Dry condition including overheads & Contractor's profit complete. Power Saw Cutter (Considering 12rmt cutting per hour) Power saw cutter -Hand operated -Operator	1 rmt

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "U" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FILLING CRACKS IN WALLS

S. No	Description of item	Qty
1	Filling cracks in walls of min 1mm wide and a max of 5mm with Krackfill Paste, a high quality weather durable acrylic emulsion polymer based to a min depth of 5 mm at a rate of one kg/ 25 meters including over heads and contractor's profit complete Make: ReArm/ PERMA/ Dr. Fixit or equivalent as approved by KSCCL.	1 rmt

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "V" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE ART SCULPTURE AT ROAD JUNCTIONS

S. No	Description of item	Qty
1	Contemporary Art sculptures with theme of Wildlife Animals. (Save earth concept) The designs may be embodied in free standing objects, in reliefs on surfaces, or in environments ranging from tableaux to contexts that envelop the spectator. An enormous variety of media may be used, including clay, wax, stone, metal, fabric, glass, wood, plaster, rubber, and random "found" objects. Materials may be carved, modeled, molded, cast, wrought, welded, sewn, assembled, or otherwise shaped and combined installation with base of RCC foundation. Including 1-year Warranty period. (As per the reference images shown)	1 set

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

Figure 6: Reference Image

PART "W" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE GRANITE BOULDER

S. No	Description of item	Qty
1	Granite Boulders with various sizes and scales. (Sizes of 450mm, 600mm, 750mm) as per the Reference image and detailed specifications. Lifting from Existing locations using Cranes, including labour charges.	1 Job

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "X" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE LANDSCAPE AND PLANTATION WORKS

No	DESCRIPTION	UNIT	QTY
1	Supply,Planting and stacking **of Tecoma Gaudi Chaudi** plant of height 100-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
2	Supply, Planting and Stacking **of Ficus Religiousa** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Supply and stacking **of Terminalia Mantaly** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Supply and stacking **of Plumeria Alba** tree of height 120-150 cm. with 3-4 branches and thick stem in big size HDPE bags including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Supply and stacking of **Plumeria Singaporensis** tree of height 80-100 cm. with 3-4 branches and thick stem in big size HDPE bags including transportation Complete as per direction of the officer-in-charge.	Each	1.00
6	Supply,Planting and stacking of **Tecoma Stans** plant of height 100-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
7	Supply, Planting and Stacking of **Conocarpus** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
8	Supply, planting and stacking of **Senna Siamea** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
9	Supply and stacking of **Terminalia Mantaly** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
10	Supply and stacking of **Legastromia Spiciosa** tree of height 80-100 cm. with 3-4 branches and thick stem in big size HDPE bags including transportation Complete as per direction of the officer-in-charge.	Each	1.00
11	Supply, planting and stacking of **Samanea Saman** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
12	Supply, planting and stacking of **Pongamia Pinnatta** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
13	Supply, planting and stacking of **Michelia Champaca** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00

No	DESCRIPTION	UNIT	QTY
14	Supply, planting and stacking of **Peltophoroum plant** of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
15	Supply, planting and stacking of **Swetenia Mahagony** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
16	Supply,Planting and stacking of **Tecoma Capansis** Orange/Yellow plant of height 100-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
17	Supply,Planting and stacking of **Mimusops Elengi** plant of height 100-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
18	Supply, planting and stacking of **Millingtonia Hortensis** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
19	Supply,Planting and stacking **of Filicium Decipensis Orange/Yellow** plant of height 100-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
20	Supply,Planting and stacking of **Cordia Sabastina Orange/Yellow** plant of height 100-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
	PALMS		
1	Providing and displaying **of Washingtonia Palm plant**, having ht.120 cm to 150 cm with 15 to 18 equal suckers, well developed, full of fresh and healthy leaves from bottom to top including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Supply and stacking of **Viechea Merilli Gold** plant of ht. 100-120 cm bottom girth 35-40 cm well developed in big size HDPE bags including transportation Complete as per direction of the Officer-in-charge.	Each	1.00
	CLIMBERS & CREEPERS		
1	Providing and Displaying **Quisqualis indica** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Providing and Displaying **Phyllanthus Cochinchinensis** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Providing and Displaying **Vernonia elliptica** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Providing and Displaying **Cats Claw Climbers** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Providing and Displaying **Thunbergia grandiflora** well developed with	Each	1.00

No	DESCRIPTION	UNIT	QTY
	fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.		
6	Providing and Displaying **Tecomaria Capansis** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
	SHRUBS AND GROUND COVERS		
1	Providing and displaying of **Murraya Panniculata** plant, having ht. 30 cm to 45 cm, well developed, fresh and healthy foliage including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Providing and Displaying **Tabernaemontana** variegated plant well developed with fresh & healthy foliage 30 to 45 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Providing and Displaying **Golden Duranta plant** well developed with fresh & healthy foliage 30 to 45 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Providing and **Displaying Ixora Coccinea dwarf** pink plant well developed with fresh & healthy foliage 30 to 45 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Providing and stacking of **Zephyranthes Candida "White"f**ull of leaves in 15cm size of poly bags &as per direction of the Officer-in-charge.	Each	1.00
6	Providing and Displaying **Osmoxylon Lineare** plant well developed with fresh & healthy foliage 5 to 6 big ball 115 to 180 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
7	Providing and Displaying **Spathiphyllum Cannifolium** plant well developed with fresh & healthy foliage 30 to 45 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
8	Providing and Displaying **Schefflera Arboricula** plant well developed with fresh & healthy foliage 30 to 45 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
9	Providing and Displaying **Ixora Singapore red** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
10	Supply and stacking of plant **Golden Durantha** well developed with fresh and healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-incharge.	Each	1.00
11	Providing and displaying of **Dracaena marginata** plant, having ht. 30 cm to 45 cm, well developed, fresh and healthy foliage including transportation Complete as per direction of the officer-in-charge.	Each	1.00
12	Providing and displaying of **Clerodendron** plant, having ht. 30 cm to 45 cm, well developed, fresh and healthy foliage including transportation Complete as per direction of the officer-in-charge.	Each	1.00
13	Providing and displaying of **Leucophyllum Frutescens** having ht. 40 cm to 60 cm Well developed, full of fresh and healthy leaves from Bottom to	Each	1.00

No	DESCRIPTION	UNIT	QTY
	top & including transportation Complete as per direction of the officer-in-charge.		
14	Providing and Displaying **Eranthimum Black** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
15	Providing and displaying of **Canna Red/yellow**, having 4no.s of 60cm leaf and 15cm width well developed, fresh and healthy foliage including transportation Complete as per direction of the officer-in-charge.	Each	1.00
16	Providing and displaying of **Mini Ixora** plant, having ht. 20 cm to 30 cm with 15 to 20 cm spread , well developed, full of fresh and healthy leaves from bottom to top including transportation Complete as per direction of the officer-in-charge.	Each	1.00
17	Providing and stacking of **Zephyranthes Candida** "White"full of leaves in 15cm size of poly bags &as per direction of the Officer-in-charge.	Each	1.00
18	Providing and Displaying **Nerium Dwarf** plant well developed with fresh & healthy foliage 5 to 6 big ball 115 to 180 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
	OXYGEN GARDEN		
1	Supply, Planting and Stacking of **ficus benghalensis** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Supply, Planting and Stacking of **Neem tree plant** of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Supply, Planting and Stacking **of Snake plant** of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Providing and Displaying **Areca palm plant** well developed having 20 to 25 fresh & healthy leaves 90 to 105 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Supply, Planting and Stacking of **Syzygium Cumini** tree plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
6	Supply, Planting and Stacking of **Sansevieria trifasciata** plant of height 45-60 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
7	Supply, Planting and Stacking of **Ocimum tenuiflorum** plant of height 45-60 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
8	Supply, Planting and Stacking of **Alstonia Scholoris** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
9	Supply, Planting and Stacking **of Chlorophytum** plant of height 15-30	Each	1.00

No	DESCRIPTION	UNIT	QTY
	cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.		
10	Supply, Planting and Stacking of **Saraca Asoca** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
	WATER GARDEN		
1	Supply **of Nymphea Sp** plant with pots of height 20-30 cm. including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Supply **of Thalia dealbata** plant with pots of height 60-75 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Supply, Planting and Stacking **of Cyperus Alternifolius** plant of height 60-75 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
	HERBAL GARDEN		
1	Supply, Planting and Stacking **of Lawsonia inermis** plant of height 30-45 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Supply, Planting and Stacking of **Hibiscus "pink tip**" plant of height 60-75cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Supply, Planting and Stacking of **cymbopogon citratus"** plant of height 30-45 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Supply, Planting and Stacking of Ornamental **Lavendar"** plant of height 30-45 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Supply, Planting and Stacking of Andrographis **Paniculata** plant of height 30-45 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
6	Supply, Planting and Stacking of **Thai Basil plant of** height 30-45 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
7	Supply, Planting and Stacking of **Citrus species** plant of height 75-90 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
	FOCAL PLANT		
1	Supply and planting **of Dracaena Draco plant** of height 75-90 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Supply and planting of **Cycus plant** of height 60-75cm. in big poly bags of size 25 cm including transportation Complete as per direction of the	Each	1.00

No	DESCRIPTION	UNIT	QTY
	officer-in-charge.		
3	Supply and planting of **Ficus Topiary** plant of height 90-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Supply and planting **of Furcraea Foetida** plant of height 30-45 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Supply and planting of **Juniperus Chinensis** plant of height 90-120 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
	OTHERS		
1	Providing and Displaying **Cycus** plant well developed having 20 to 25 fresh & healthy leaves 90 to 105 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
2	Providing and displaying of **Agave Americana** plant, having ht. 30 cm to 45 cm, well developed, fresh and healthy foliage including transportation Complete as per direction of the officer-in-charge.	Each	1.00
3	Providing and Displaying **Leucophyllum frutescens** well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
4	Supply and stacking of **Plumeria alba** plant of height 120-150 cm. with 3-4 branches and thick stem in big size HDPE bags including transportation Complete as per direction of the officer-in-charge.	Each	1.00
5	Supply and stacking of **Pisonia Alba** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
6	Providing and displaying of **Washingtonia Palm** plant, having ht. 75 cm to 90 cm with 15 to 18 equal suckers, well developed, full of fresh and healthy leaves from bottom to top including transportation Complete as per direction of the officer-in-charge.	Each	1.00
7	Providing and displaying of **Adansonia Grandidieri** plant, having ht. 75 cm to 90 cm with 15 to 18 equal suckers, well developed, full of fresh and healthy leaves from bottom to top including transportation Complete as per direction of the officer-in-charge.	Each	1.00
8	**Vertical Garden System:** Design and development of Vertical Landscape (including theme- based designer ones) by supplying and installation of Standardized Green Wall Potted System. The Vertical Garden system to be comprehensive all in one design eliminating the need of any additional drainage, water retention and root barrier layer. The drainage system should allow collection of excess water and conveyed through proper system for reuse, if considerable quantity is drained through the system. Work is Inclusive of necessary staging, scaffolding, platforms at all levels and locations, any other required / necessary temporary or permanent supports etc. complete. Quote to	SQMT	1.00

No	DESCRIPTION	UNIT	QTY
	include all the irrigation network within green wall, which includes emitter lines, supply lines within green wall & accessories, timers, pumps & Automation		
9	**Grass** a) Dressing the surface to the desired shape, laying 4" layer of fine red soil, covered with a thin layer of sand, watering, rolling with hand roller (2.5" thickness after rolling), including the cost of red earth, sand and labour charges etc complete but excluding the cost of fertilizers, chemicals and grass.	SQMT	1.00
10	**Hedge / shrub planting** a) Digging the trench of size 30 cm depth, refilling the trench with red soil including cost of red soil and farmyard manure at 4:1 ratio, internal transportation of plants and planting the plants including the application of fertilizers and pesticides etc., (@ 20 gms/pit/sqmt) complete but excluding the cost of the fertilizers (@ 20 gms/pit/sqmt) and plant material.	SQMT	1.00
11	Providing and laying of grass turf with required thickness with proper level and ramming with tools wooden (Dhurmos) and then rolling the surface with light roller make the surface smoothen and light waterning with sprinkler till the grass establish properly complete as directed by engineer-in-charge.	SQMT	1.00
12	Providing and stacking of **Pennisetum Setaceum/Fountain** grass having ht. 100cm to 120cm, Well developed, full of fresh and healthy leaves from Bottom to top & including transportation Complete as per direction of the officer-in-charge.	Each	1.00
13	Supply and stacking of **Bougainvillea (Variety Butiana, Lady Mary Baring, Mahara,Mohan,Scarlet Queen, Varigata, Glabra Formosa, Peruviana Odissi, Partha, Subhra,Thimma, Spectabilis L.N Birla, Refulgens)** plant of height 30 cm. to 45 cm. with 2-3 branches including transportation Complete as per direction of the officer-in-charge.	Each	1.00
14	Providing and Displaying **Phoenix roebelenii palm** plant well developed having 20 to 25 fresh & healthy leaves 90 to 105 cm ht including transportation Complete as per direction of the officer-in-charge.	Each	1.00
15	Supply and stacking of **Spathodea campanulata** plant of height 150-165 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
16	Supply and stacking of **Foxtail palm** plant of ht. 240-270 cm bottom girth 35-40 cm well developed in big size HDPE bags including transportation Complete as per direction of the Officer-in-charge.	Each	1.00
17	Supply and stacking of **Cassia fistula (Amaltash)** plant of height 120-135 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge	Each	1.00
18	Supply and stacking of **Bauhinia blakeana (Kachnar)** plant of height 120-150 cm. in big poly bags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00

No	DESCRIPTION	UNIT	QTY
19	Supply and stacking of **Tabebuia sp.** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
20	Supply and stacking of **Terminalia arjuna** plant of height 150-165 cm. in big polybags of size 25 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
21	Providing and displaying of **Raphis Palm** plant, having ht. 75 cm to 90 cm with 15 to 18 equal suckers, well developed, full of fresh and healthy leaves from bottom to top including transportation Complete as per direction of the officer-in-charge.	Each	1.00
22	Supply and stacking of **Plumeria rubra** plant of height 120-150 cm. with 3-4 branches and thick stem in big size HDPE bags including transportation Complete as per direction of the officer-in-charge.	Each	1.00
23	Providing and Displaying **Golden Bottle Brush Topiary** plant well developed with fresh & healthy foliage 5 to 6 big ball 115 to 180 cm including transportation Complete as per direction of the officer-in-charge.	Each	1.00
24	Precast concrete well rings 600mm dia 450mm height with PVC coated chainlink fence with twisted ends wire diameter 3.5mm surface treatment PVC and galvanized mesh 50mmx50mm	Each	1.00
25	**Maintenance** Complete maintenance of the entire garden features having as per yard stick in the garden area i.e. lawn trees, shrubs, hedge, flower beds, foliages, creepers etc. including hoeing, weeding pruning replacement of plants, gap filling, watering, mowing of lawn, grass cutting by lawn mover and brush cutter , removal of garden waste, applying insecticide, pesticide & fertilizers(whenever required) top dressing of lawn with good earth and manure and maintenance of other garden related works as directed by office-in-charge (Cost of Good Earth, Manure, Fertilizer, Insecticide , Pesticide will be provided by the Department & lawn mover and brush cutter with fuel , other T & P material/articles shall be provided by the Contractor.) Roundabout landscaping (as per yard stick 1Mali =2.00Acre).	SQMT	1.00

PART "Y" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO OUTDOOR LIGHTING

We are furnishing the specifications below, accordingly you can quote the respective design options and quotations.

1. **Post Top Lantren 20W LED:** Type with height of 2.4m to 3.0m Ideal for creating visual guidance and exceptional visual comfort. A sleek and minimalist shape provides distinctive lighting effects by night and decorative urban effect during the day Pole mounting height from 3000mm to 5000mm. •Luminaire made of extuded aluminium alloy (grade 6063) with diecast aluminium components and non-corrosive SS fasteners • Reflector system made of spun aluminium (powder coated white for high reflection). • EPDM gasket. •Non yellowing UV stabilized clear / translucent /acrylic / polycarbonate diffuser. •Spun Aluminium reflector for rotationally symmetrical downward distribution of light • GI mounting plate for bolting onto a foundation. Luminaire can be aligned on the mounting plate around 360°. • Cable entries for through-wiring of mains supply cable • Stainless steel 304 grade fasteners • Integral power supply • Earth connection • Safety class I • Protection class IP54 Color Temperature 4000 K. Warm White. • Dust tight and protection against water jets. • CE- Conformity mark

2. **Wall bracket /Step Light Integrated with 6W LED:** The small scale of these luminaires makes them especially suitable for installation in step risers for both interior and exterior applications.The pathfinder are the perfect combination of aesthetic fixture design and optimum illumination performance. • Luminaire made of die cast aluminium / stainless steel with non corrosive SS fasteners. • Non yellowing UV stabilized translucent polycarbonate diffuser • Silicon gasket. • Reactor made of pure anodised aluminium • Industrial plastic Installation housing for preparing the recess opening in the wall / stairs. • Cable entries for through-wiring of mains supply cable (max. 3 x 0.5 Sqmm) • Integral power supply • Earth connection • Safety class I • Protection class IP65 Warm White with IP65 Color Temperature 3000 K. • CE- Conformity mark • Suitable for operation on 240V, 50Hz single phase ac supply

3. **Flood Light 30W LED:** Flat Top Translucent [Dimension: Ø166 x 970mm] integrated with 30W LED. Dark sky compliant protects pedestrians from glare, in addition to preventing spill

light above the horizontal plane.Fitting Colour: Graphite Grey/Black. LED Colour- Cool white/Warm White with IP65 [Dust penetration-protected, jet-proof] IK10 [20 J vandal-resistant], Color Temperature 3000 K. • Luminaire made of extuded aluminium alloy (grade 6063) with diecast aluminium components and non corrosive SS fasteners • Non yellowing UV stabilized translucent polycarbonate diffuser • Silicon gasket. • Reflector system made of pure aluminium (painted / anodised) /polycarbonate •Cast Iron / aluminium mounting plate for bolting onto a foundation. Luminaire can be aligned on the mounting plate around 360°. • Cable entries for through-wiring of mains supply cable • Integral power supply • Earth connection • Safety class I •Protection class IP 65 • CE- Conformity mark • Suitable for operation on 240V, 50Hz single phase ac supply • Finished with Pure polyester powder coated Graphite grey / Black.

4. **LED Rope light:** Every section includes three LEDs, Cut to the desired length and mount wherever required**.** 5 metres per roll, 120 LEDs per metre**.** Integrated with SMD 2835 LEDs.• Constant current LED driver (5Amp)• Colour rendering index (CRI) is >90• Protection class IP67 for LED strip• - Conformity mark• Low Voltage at 12V dc assures safety.• Available CCT WW : (2700K) , CW : (6000K)

5. **3W Inground light;** material: Aluminium die cast with heat sink; colour: 3K, Sizes:H:128mm, XW:120mm, Cree Led

6. **Supply and providing LED 28W(6000K**) custom made MS vertical sleek designer pole light fittings, IP65 minimum two years guarantee/warrantee) including external or internal cables all suitable materials & fixing etc till completion of work

7. **High-bay downlight** Hogvik with LED (Light Emitting Diode) system power: 120 W, Luminous flux of luminaire 16800 lm, Colour temperature of 5700 K,Cool white, CRI > 80, 230 V constant current driver, 70 % of luminous flux after 50,000 operating hours; Energy efficient LEDs, Direct light emission, Luminaire housing in die cast aluminium, Polyester powder black coloured coat applied over a 5- stage pre-treatment, Toughened glass cover with wide angle beam for a homogenous light distribution, ZHLS (ZERO HALOGEN LOW SMOKE) wiring, Electronic control gear, Protection class I, IP 65, Ø = 360 mm, H = 170 mm

8. **Post Top Lantern 36W LED:** Elegant lighting design, which is suitable classic architecture. Ideal for creating visual guidance and exceptional visual comfort. A sleek and minimalist shape provides distinctive lighting effects by night and decorative urban effect during the day Pole mounting height from 3000mm to 5000mm. •Luminaire made of extuded aluminium alloy (grade 6063) with diecast aluminium components and non-corrosive SS fasteners • Reflector system made of spun aluminium (powder coated white for high reflection). • EPDM gasket. •Non yellowing UV stabilized clear / translucent /acrylic / polycarbonate diffuser. •Spun Aluminium reflector for rotationally symmetrical downward distribution of light • GI mounting plate for bolting onto a foundation. Luminaire can be aligned on the mounting plate around 360°. • Cable entries for through-wiring of mains supply cable • Stainless steel 304 grade fasteners • Integral power supply • Earth connection • Safety class I • Protection class IP54 Color Temperature 4000 K. Warm White. • Dust tight and protection against water jets. • CE-Conformity mark

9. **Step Light Integrated with 3W LED:** The small scale of these luminaires makes them especially suitable for installation in step risers for both interior and exterior applications.The pathfinder are the perfect combination of aesthetic fixture design and optimum illumination performance. • Luminaire made of die cast aluminium / stainless steel with non corrosive SS fasteners. • Non yellowing UV stabilized translucent polycarbonate diffuser • Silicon gasket. • Reactor made of pure anodised aluminium • Industrial plastic Installation housing for preparing the recess opening in the wall / stairs. • Cable entries for through-wiring of mains supply cable (max. 3 x 0.5 Sqmm) • Integral power supply • Earth connection • Safety class I • Protection class IP65 Warm White with IP65 Color Temperature 3000 K. • CE-Conformity mark • Suitable for operation on 240V, 50Hz single phase ac supply

10. **BOLLARD integrated with 6W LED: -** Flat Top Translucent [Dimension : Ø166 x 970mm] integrated with 6W LED. Dark sky compliant protects pedestrians from glare, in addition to preventing spill light above the horizontal plane. Fitting Colour: Graphite Grey/Black. LED Colour- Cool white/Warm White with IP65 [Dust penetration-protected, jet-proof] IK10 [20 J vandal-resistant], Color Temperature 3000 K. • Luminaire made of extruded aluminium alloy (grade 6063) with diecast aluminium components and non-corrosive SS fasteners • Non yellowing UV stabilized translucent polycarbonate diffuser • Silicon gasket. • Reflector system made of pure aluminium (painted / anodised)

/polycarbonate •Cast Iron / aluminium mounting plate for bolting onto a foundation. Luminaire can be aligned on the mounting plate around 360°. • Cable entries for through-wiring of mains supply cable • Integral power supply • Earth connection • Safety class I •Protection class IP 65 • CE- Conformity mark • Suitable for operation on 240V, 50Hz single phase ac supply • Finished with Pure polyester powder coated Graphite grey / Black.

11. **Under water light with 3 W LED:** ● Complete housing made of marine grade stainless steel #316●PCB made of excellent heat conductivity aluminium, coefficient of heat conductivity =2.0w/mk●Luminaire hard wired for single colour 2 x 1.0Sq.mm 3 metres water resistant cable.●Requires remote power supply of 24Vdc.●Temperature of water between -20°C~40°C.●Recommended installation depth upto 1 metre below the water surface.●CE - Conformity mark

Make: KLite/ Crompton/ Phillips/ Systra/ Glowmac/ Bajaj or equivalent as approved by KSCCL

Note: Minimum 2 years of warranty shall be assured by the respondent.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

PART "Z" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE ENTRANCE AND INTERNAL SIGN BOARDS

Entrance Sign Board

S. No	Description of item	Qty
1	Supply,delivery and installation of OPEN LED Sign Board • Acrylic Laser cutting 3MM Thickness • 3MM Acrylic Walling • Female of ACP Laser cutting sheets • Gold Engraving sheet pasting on the sheet • 9MM Open LED pixel fixing on Engraving sheet • 400 watts (1 yr. Warranty) Rainproof Power supply of • per l 000 LED one Power supply • etter fixing on site with selfthread scroos • 18" Inches x 30' feet approxments • 2 no's Logos Inner led Samsung Branded.. • Total working with material cost • Including 2years warranty for the entire unit.	1 job

Internal sign Board

We are offering you to provide the various designs with detailed specifications along with your quotations. Should consider the design with below mentioned.

a) Way finding signage

b) Informative signage

c) Safety signage

d) Facility Signage at Park

Make: 3M/ AVERY as approved by KSCCL

Note: Minimum 2 years of warranty shall be assured by the respondent.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

PART "AA"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO ALL ELECTRICAL WORKS INCLUDING ELECTRICAL PANELS AND FEEDER PILLARS.

Concepts and detailed Electrical network drawings and Bill of Quantities including specifications and Rates for various items of internal & external works such as Electrical panels, Feeder pillars as per required load requirements etc. **other than the lighting poles and luminaries as mentioned in Part K of this BOQ.**

Make: Schneider/ L&T or equivalent as approved by KSCCL

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AB" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO ECO FRIENDLY KIOSK.

Below Mentioned reference images for the proposal and the required size of 4mx4m using specific Low cost materials. accordingly, we are expecting design proposal with Quotations.

Figure 7: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AC"- SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF TREE HOUSE NEAR BY CHILDREN'S PLAY AREA

We are providing Tree house reference image for your kind observation and accordingly you can Propose your drawings and various design options along with your respective quotations.

Figure 8: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AD" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO LOW COST DESIGN FEATURES.

Below Mentioned reference images for the proposal and the various sizes with sustainable Low cost materials. accordingly we are expecting design proposal with Quotations.

ITEM DESCRIPTION	IMAGE
Tyre Tower Climber	
Tyre Challenging Bridge	
Tyre Wall Climber	
Tyre Walk	
Single Swing With Tyre	

Figure 9: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AE"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PLAY EQUIPMENT FOR CHILDREN

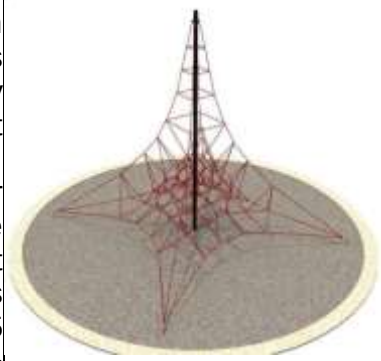
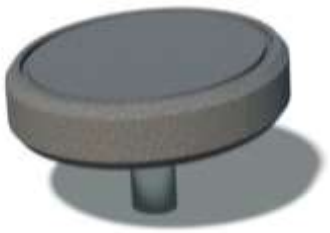
S'No	Product Description	Amount
1	**Four Seated Arc Swing** The Arc swing frame 6000mm long 80NB Pipe bent in Single Piece & welded together with a flange 5mm thick & ISA of 40x40x5mm to form a strong frame. The 80NB pipe is hot dip galvanized pipe conforming to IS 1239 with GI thickness of 60µ. Height of the frame is 2700mm.Top pipe: 50NB Top Pipe with two Arc Swing Flanges welded at both its ends. Pipe can withstanding torsional stress created due to swinging motion. These 50NB top pipe is hot dip galvanized pipe of length 2950mm conforming to IS 1239 with GI thickness of 60µ. Seat assembly : 1) Swing clamp assembly: Swing clamps made up of two parts are joined together with M6 Allen bolts along with S-Hook & a specially designed swing pin. The S-Hook is specially designed to house a bearing for smooth & noiseless swinging. The clamps are made From injection moulded Nylon-6 plastic. 2) Chain: Rubber dip moulded swing chain of dia. 6mm & 1450mm Long. 3) Hook: S-Hook of die 8mm & 145x130 Triangular hook of Grade SS 304. 4) Seat: Rubber Seat made by Natural Rubber with sufficient reinforcement. Bearing: Bearing is self-lubricated made of SKF/ NTN/ NACHI make shall be provided for smooth & trouble-free movement. •Pins and Circlips: 12mm diameter pins shall be made from EN8 material & Circlip A10. Pipe Materials or Class: Light Duty ('A' Class) &Medium Duty ('B' Class) Series of pipes only. Wall thickness of pipe varies according to class/series of pipe used. Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns. It is tested for Adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instrument.	

S'No	Product Description	Amount
2	**Walking Barrel** Support pipe: 2300mm long vertical 80NB hot dip Galvanized pipe conforming to standard IS 1239 & GI thickness up to 60µ. GI Plated ISF 210x50 is welded to the pipe for mounting Plummer block. •Roto walking barrel: Rotational Melded drum of Dia. 450 with longitudinal ribs for foot grip. •Plummer block: Single unit, pillow type cast housing Plummer Bock with specific number for aligning the centre pipe of Barrel on which Barrel is fixed. •Clamp: Two specially designed clamps joined together with SS 304 graded non rusting nut-bolts conforming to ASTM E-1086:1994, made from Nylon Grade-6 plastic. •Handle: Handle grip conforming to EN 1176-1:1998 attached with 80x20 nylon clamp of Grade-6 clamped to the Deck pipe using SS 304 graded non rusting nut-bolts. Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials or Class: Light Duty ('A' Class) & Medium Duty ('B' Class) Series of pipes only. Wall thickness of pipe varies according to class/ Series of pipe used. •Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns.it is tested for Adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments.	

S'No	Product Description	Amount
3	**Roto Crawl Tube** This Roto Crawl tube Support pipe :80NB hot dip galvanized pipe of 1480mm length conforming to IS 1239 with GI thickness upto 60µ Roto tube & Entry: The tube is made up of LLDPE by rotational moulding process. Two halves are joined together to form a single tube. Two rotational moulded entries are provided at both the ends. The sides of the tunnel are provided with slots for outside view for the children while crawling. Tube size -dia760 x 1150 mm .Entry size - 1100 x 970mm..(The ROTO products are manufactured using material LLDPE (Linear Low Density Polyethylene) with UV stabilization of Food Grade Non Hazardous Plastic compiled to ROHS. Thickness of the ROTO products varies from 5 mm to 8 mm as per the product. The overall product obtain is a seamless to ensure perfect blend of uniform thickness & durability.) Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. Clamp: Two specially designed clamps joined together with SS 304 graded non rusting nut-bolts conforming to ASTM E-1086:1994, made from Nylon Grade-6 plastic. Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments.	
4	**Slide and Rocks on Mound** In This Slide And Rock on Mount the **Roto Wave Slide 5'ht**: ROTO Wave Slide is made up of LLDPE by Rotational Moulding Process. The landing of the slide is supported by stand made up of 20 NB pipe and 5mm thick MS plate with GI plating. **Climbing Rocks:-** Climbing rocks are made up of FRP (Fibre Reinforced Plastic)/ any other Plastic. **FRP (FIBER REINFORCED PLASTIC):-** All the Fibre Reinforced Plastics (FRP) materials are processed by the hand laid process which is considered to be the best of its type. We use International quality Gel coats which are duly mixed with U.V 16 stabilized pigment to give the required color to the product. Thickness of the FRP material varies from 3 mm to 5 mm as per the product. The FRP material is tested for abrasion resistance & UTS (ultimate tensile test). **LLDPE (LINEAR LOW DENSITY POLYETHYLENE):-** The ROTO products are manufactured using material LLDPE (Linear Low Density Polyethylene) with UV	

S'No	Product Description	Amount
	stabilization of Food Grade Non Hazardous Plastic compiled to ROHS. Thickness of the ROTO products varies from 5 mm to 8 mm as per the product. The overall product obtain is a seamless to ensure perfect blend of uniform thickness & durability. **Pipes:** All metal pipes are Hot Dipped Galvanized Pipes with GI thickness of 60micron. **Powder coating:** It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns. It is tested for Adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. **Nut and Bolts:** Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.	
5	**Non Bump See Saw** The unit shall be fabricated from MS sheet to BS 1449,MS tubing to BS 1387 Casting to Grey Cast iron to BS 1452, All Metal components will be protected with low lead powder paint (within the meaning of The Toy and Safety Regulations 1364 of 1974 and Pencil and Graphics Regulations And the non-bump see-saw incorporates a completely enclosed, inter-connecting link mechanism that prevents it from coming to a complete stop causing children to become lifted from the seat. The non-bump see-saw is designed to also prevent children from trapping fingers or limbs.	
6	**Camel Spring Rider** Mobile body shall be manufactured from polyethylene. Fastenings where applicable shall be non-standard (anti-vandal) and plated for protection. Ride through the desert on the back of this happy Camel Springier! Our Camel Springier is rotationally moulded and uses recyclable polyethylene with an inner steel reinforcement core. The Camel Spring Mobile makes an extremely popular addition to any playground.	
7	**Toddler Express** The Toddler Express Panels: 19 & 12mm Thick HD Polyethylene, 100% Recyclable, Non-Toxic & Complies with EN71 Standards Steel Components: Made from steel to BS 9070 Part 1 (1983) Welds: Copper free wire conforming to 901 AIB for mild steel. Base: Aluminium 5 bars tread plate x 3mm thick. Fixings: Nonstandard to deter vandalism & plated for weather protection.	

S'No	Product Description	Amount
8	**Scramble Bike** Panels: 19mm Thick HD Polyethylene, 100% Recycleable, Non-Toxic & complies with EN71 Standards. Seat: 19mm Thick HD Polyethylene, with Non-Slip textured rubber coating. Steel Components: made from steel to BS 9070 Part 1 (1983). Metal Parts: Coated with low lead polyester paint to BS EN71 part 3 (1995).Fixings: Nonstandard to deter vandals & plated for corrosion resistance.	
9	**Fits cape MAPS** The Inclined Slide is made up of LLDPE (Linear Low Density Polyethylene) by Rotational moulding process.**2 Way Mini Slide:-**2 Way Mini Slide is made up of LLDPE (Linear Low Density Polyethylene) by Rotational molding process. **Hexa Climber:-**Hexa Climber is of Hexagonal shaped and it is made up of Galvanized pipe bends and Net/ ropes. It has various activities to play on each side of the Hexagon.**2 Way Mini Slide:-** 2 Way Mini Slide is made up of LLDPE (Linear Low Density Polyethylene) by Rotational molding process. **S Loop Climber :-**S Loop Climber is made up of Galvanized Pipes. **Wall Climber:-**Wall of the Wall Climber is made up of LLDPE (Linear Low Density Polyethylene) by Rotational molding process. Wall is supported with the help of Galvanized Pipes. **Disc Steps:-** Disc Step is made up of LLDPE (Linear Low Density Polyethylene) by Rotational molding proces. It has Springs on the bottom side. **A Line Climber :-** A Line Climber is made up of Galvanized Pipes. **Loop Hole Climber:-** Loop Holes of the Loop Hole Climber are made up of LLDPE (Linear Low Density Polyethylene) by Rotational moulding process. These Loop Holes are supported with the help of Galvanized Pipes. **Ring Climber:-** Ring of the Ring Climber is made up of LLDPE (Linear Low Density Polyethylene) by Rotational molding process. Ring is supported with the help of Galvanized Pipes. **Pipes:-** All metal pipes are Hot Dipped Galvanized Pipes conforming to GB/T 13793-2008 with thickness of 2mm. **Powder coating:-** It shall be done with pure polyester raw material.Dry film Thickness maintained within the range of 50-70 microns. It is tested for adhesion test (According to ASTM-D- 3359) with the help of cross hatch cutter instruments. **Nut and Bolts: -** Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.	

S'No	Product Description	Amount
10	**Peak Climber** **Pyramid Structure:** Pyramid Structure is made up of high quality Nylon Ropes. **Nut and Bolts:** Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment. **Pipes:** All metal pipes are Hot Dipped Galvanized Pipes with thickness of 2mm. **Powder coating:** It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 40-70 microns. It is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. **Certificate:** ISO 9001:2015 TUV **Packaging:** Combination of EPE foam+HDPE+ Stetech/Shrink wrap or Blanket + stretch/shrink wrap	
11	**Mini Matrix** Solid steel components to BS 970 Pt 1 Steel nominal bore tube (medium) to BS 1387 Aluminium casting made from LM6M Aluminium extrusion made from 6063A T6 Stainless steel to BS 1449 Pt 2 19mm thick HD polyethylene 100% recyclable non-toxic and complies with EN 71 19mm thick HD polyethylene 100% recyclable non-toxic with a textured non-slip surface one side and complies with EN 71 Standard fixings are plated and made to either BS 3692 or BS 4190 Non-standard fixings are anti-vandal and corrosion resistant Welds are from copper-free wire to BS EN 440 Low lead polyester powder paint to BS 71 Pt 3 Anodising to BS 3987	
12	**Dizzy disc** These 375mm (1'3″) diameter rubber Spinning Discs help develop balance and co-ordination skills. Spinning disc is manufactured from non-slip rubber, with a 440 mm galvanised steel post complete with fitted bearing.	
13	**Kappa Trail :** Designed to encourage physical development in a fun yet challenging way and perfect for keeping youngsters fit and trim, this produced from high quality timber from sustainable sources and this timber features include balance beam, clatter bridge, Full log traverse, Link beam Crossed Rope walk, inclined balance beam and jigsaw traverse wall and are made of with high pressure trated 'Play grade' timber HDPE plastic climbing panels log Traverse Rope Set	

S'No	Product Description	Amount
14	**Terragio MAPS** **Platform:-Material:-** FRP (Fiber Reinforced Plastic) with anti-skid surface on top. **Thickness:-** Minimum thickness of 3-5 mm and side flanges of 6-8 mm thickness **Size:-** Center to center distance 1160mm. **Others:-** Ribbed structure on bottom side **Shape:-** Square **Brazing Frame:-** ISA 25x25x5mm thick and ISF 40x5mm thick which is galvanized and then duly Powder Coated. **Clamp:-** Made by Nylon 6 material by Injection Moulding Process which is UV stabilized and having better strength to give support to other parts. **Vertical Pipes:-** 100NB GI pipes. Wall thickness as per the class of pipe used **FRP Plain Bridge 2.4mtr Long:-** Size:- 2400mm Material:- FRP (Fiber Reinforced Plastic) with a minimum thickness of 3-5mm. Ribs are provided at defined distance to improve strength as well as aesthetics of the bridge.**Bridge Railing:-** Railings are provided on both sides of bridge as barrier for safety purpose. It is made up of LLDPE (Low-Density Polyethylene Plastic) in rotational molding process and has a support of 20 NB powder coated GI pipes. The railing is attached to the support pipe using an Injection Molded Nylon Clamps. **Swinging Bridge:-** Size:- 2400mm Material:- Frame - 80NB GI pipes and GI plated MS angles of 75x75x5mm. Planks - Low-Density Polyethylene Plastic in rotational moulding process. ROTO Planks in same or different colors are suspended with the help of 12mm galvanized chains & specially designed clamps made up of 16SWG M.S. sheet. These chains are mounted on 'U' hooks. 12mm dia U Hooks are welded on the inner side of the M.S. angles and other side of the U hook is grinded. **ROTO Tunnel 2.4mtr Long:-** Size:- 2400mm Material:- Low-Density Polyethylene Plastic with UV stabilization 16 in rotational molding process with a minimum thickness of 5-6mm. Outer diameter of the tunnel is 860mm . Each half of the Tunnel is 1160mm long. ROTO Tunnel is assembled with ROTO slide entry with the help of Non-rusting S.S. Nuts and Bolts which in turn clamped by 80x20 Injection Moulded Nylon Clamps. Six Holes are provided on top surface for ventilation purpose. **ROTO Staircase 3ft HT:-** The staircase is made up of totally in LLDPE (Linear Low Density Polyethylene). The ROTO Staircase has a sufficient reinforcement to maintain strength and avoid bending. The top surface of the staircase is anti-skid to avoid slippery movements. Handrails are inbuilt in mold itself. Handrails have sufficient reinforcement to maintain	

S'No	Product Description	Amount
	strength and avoid bending. Overall width of the staircase is around 1000mm and height is around 1500mm including handrails with allowable shrinkage. **FRP Ladder 7ft:-** Size:- 7 Ft Material:- FRP (Fiber Reinforced Plastic) with a minimum thickness of 3-5mm. The top surface of the ladder is anti-skid to avoid slippery movements. There is also provision for Handrails on ladder for better grip. The ladder is supported by stand made up of 25NB G.I. pipe and 50x10mm thick flat from the bottom. **FRP Split Level Ladder:-** Material:- FRP (Fiber Reinforced Plastic) with a minimum thickness of 3-5mm. The top surface of the ladder is anti-skid to avoid slippery movements. The Ladder is directly bolted to platform and is supported by 50x5 MS flat with GI plating. **FRP Mini Wave Slide 3' Ht:-**Wave Slide chute is made up of FRP. The chute has its end such as it causes safe landing of the child. The landing portion is horizontal with respect to the ground. The landing of the slide is supported by stand made up of 25NB pipe and 5mm thick MS plate with GI plating. **Roto Wave Slide 5'ht:** ROTO Wave Slide is made up ofLLDPE by Rotational Moulding Process. The landing of the slide is supported by stand made up of 20 NB pipe and 5mm thick MS plate with GI plating. **FRP Roller Slide:-** FRP Roller Slide is made up of FRP (Fiber Reinforced Plastic). FRP Roller Slide side arm have reinforced pins for assembling the rollers. Roller made from LLDPE Material. The most attractive and enjoyable of its kind. The slide chute consists of rotational molded plastic rollers spread over the length Roller provided with Nylon bush and are mounted on 12 mm dia rod and are fixed inside the slide chute. **ROTO Spiral Slide 7ft:-** The slide is completely made up of one piece with a thickness of 5-8mm keeping in consideration the ASTM & EN standards. The material used is LLDPE (Low-Density Polyethylene Plastic) in Rotational moulding process. Spiral slide railings consists of 20NB hot dip galvanized pipe bended to form frame with two pairs of clamps joined together to GI Pipe with SS 304 graded non rusting nut-bolts, made from Nylon Grade-6 plastic.The ROTO moulded plastic bush & ROTO moulded slim railing are inserted into the pipe frame in alternate pattern. The railing frame is bolted to Spiral slide platform with 20NB GI support pipe bolted to platform at one end & clamped with special nylon clamps to railing pipe frame.**ROTO Slide Entry:-** Slide Entry of the slide is made up of LLDPE (Linear Low Density Polyethylene) by Rotational moulding process.It is attached to deck pipe with the help of 20NB GI pipes and Injection Molded Nylon Clamps.	

S'No	Product Description	Amount
	S Loop Climber:-The vertical frame of the S Loop Climber is fabricated out of 100NB, 50NB and 20NB powder coated GI pipes respectively. Loops are hinged to top frame pipe with the help of S hook. The top pipe is made out of 50NB GI pipe which is bent in 'S' shape. The ladder used is designed to the side support pipe itself. Top frame is attached to deck pipe with the help of specially designed nylon clamps. **Net Climber:-** The net climber is made up of 16 mm dia Nylon rope attached by specially designed Nylon rope clamps. The ropes are provided to the pipe frame and are fabricated from 25NB GI pipes with 12 mm dia 'U' hooks. **MAPS Pod Climber:-** The vertical pole of thePod Climber is made up out of 40NB GI pipe. It is attached to vertical deck pipes with the help of 20NB GI pipe & specially designed nylon clamps. Pods are made up of LLDPE (Low-Density Polyethylene Plastic). **FRP Rock Climber:-** Central pad of ROCK Climber is made up of FRP (Fibre Reinforced Plastic). The rocks are mounted on platform and it has gradient from the ground. The Rock Climber is supported by stand made up of 25NB G.I. pipe and 50x10mm thick flat from the bottom. **Bubble Panel Railing:-** In this type of railing the bubble is made up of acrylic and the frame is made up of LLDPE (Low-Density Polyethylene Plastic). It provides an outer view of the area to the person present on that MAPS deck. It has been supported with a 20 NB powder coated GI pipes. The railing is attached to the support pipe using an Injection Molded Nylon Clamps. **ROTO Cross N Zero Railing:-** This item provides brain washing experience to the children and enhances their tactical strength by providing them a intelligent game. The prisms for the "X" and "O" and also the frame of this item are made up of LLDPE (Low-Density Polyethylene Plastic) in rotational moulding process. The prisms are fixed on powder coated GI pipe frame of 20 NB and 15 NB pipes. **ROTO Cupola Canopy:-** Cupola Canopy is made up of LLDPE (Low-Density Polyethylene Plastic). It is made in two parts; Top Dome & Base. Top Dome is bolted to Base part with the help of non-rusting bolts & nuts.Base part has 4 legs which has center to center distance as 1160mm. **ROTO Tile Canopy:-** Tile Canopy is made up of LLDPE (Low-Density Polyethylene Plastic). It has 4 legs which has center to center distance as 1160mm. **ROTO Window Canopy:-** Window Canopy is made up of LLDPE (Low-Density Polyethylene Plastic). It has 4 legs which has center to center distance as 1160mm. It shall have provision for Flag/ Character at the top. **MAPS Double Swing:-** In the double swing the leg support is made up of 40 NB GI pipes and top	

S'No	Product Description	Amount
	pipe is of 50 NB GI pipes with GI junction box with powder coating. The swing seats are made up of 10mm thick antiskid chequered reinforced rubber top. The rubber belt seat is suspended on 6mm rubber coated GI chain. The ball bearings are mounted inside a specially designed nylon clamp. **FRP (FIBER REINFORCED PLASTIC):-** All the Fibre Reinforced Plastics (FRP) materials are processed by the hand laid process which is considered to be the best of its type. We use International quality Gel coats which are duly mixed with U.V 16 stabilized pigment to give the required color to the product. Thickness of the FRP material varies from 3 mm to 5 mm as per the product. The FRP material is tested for abrasion resistance & UTS (ultimate tensile test). **LLDPE (LINEAR LOW DENSITY POLYETHYLENE):-** The ROTO products are manufactured using UV stabilization of Food Grade Non Hazardous Plastic material LLDPE (Linear Low Density Polyethylene) compiled to ROHS. Thickness of the ROTO products varies from 5 mm to 8 mm as per the product. The overall product obtain is a seamless to ensure perfect blend of uniform thickness & durability. •**Pipes:** All metal pipes are Hot Dipped Galvanized Pipes with GI thickness of 60micron. •**Powder coating:** It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns. It is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments.	
15	**TWO SEATED ARC SWING** Swing leg pipe :40NB hot dip galvanized swing leg pipe of length 2950mm conforming to IS 1239 with GI thickness of 60µ.•Top pipe :50NB hot dip galvanized swing top pipe of length 2950mm conforming to IS 1239 with GI thickness of 60µ with an ISF conforming to IS 1730-1961 welded at its both ends to junction box. Pipe can withstand torsional stress created due to swinging motion. Junction box :225mmx103mm junction box made from 3mm thick GI Plated plate to house the two swing leg pipes & top pipe. •Seat assembly: 1) Swing clamp assembly: Swing clamps made up of two parts are joined together with M6 Allen bolts along with S-Hook & a specially designed swing pin. The S-Hook is specially designed to house a bearing for smooth & noiseless swinging. The clamps are made from injection moulded Nylon-6 plastic.	

S'No	Product Description	Amount
	2) Chain: Rubber dip moulded swing chain of dia. 6mm & 1450mm Long. 3) Hook: S-Hook of die 8mm & 145x130 Triangular hook of Grade SS 304. 4) Seat: Rubber Seat made by Natural Rubber with sufficient reinforcement. Bearing: Bearing is self-lubricated made of SKF/ NTN/ NACHI make shall be provided for smooth & trouble-free movement. •Pins and Circles: 12mm diameter pins shall be made from EN8 material & Circlip A10. Pipe Materials or Class: Light Duty ('A' Class) &Medium Duty ('B' Class) Series of pipes only. Wall thickness of pipe varies according to class/series of pipe used. Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns. It is tested for Adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instrument.	
16	**STRAIGHT SLIDE** The attractive ROTO Straight slide. Platform support pipe: It is 80NB hot dip galvanized centre support pipe of length 1980mm conforming to IS 1239 with GI thickness of 60µ •Ladder Frame: The slide ladder is made up of 25 NB GI pipe & the ladder hand-railing is made up of 20 NB pipes respectively. •Landing support: It is made from 25NB anti corrosive Galvanized Pipe of length 1500mm with GI coated Base Plates together with standard ISA Foundation Angles to provide strong support •Ladder Step: It is Cold formed 16 Gauge GI Plated Sheet Length 500mm & width 90mm EN1176-1:1998 conforming to EN1176- 1:1998 The trade and riser of the ladder are designed in such a way it won't entrap child's foot while playing. All the sharp edges and corners are properly grinded to give smooth finish so that children are not hurt while playing on it. For Roto product: The ROTO products are manufactured using material LLDPE (Linear Low Density Polyethylene) with UV stabilization of Food Grade Non Hazardous Plastic compiled to ROHS. Thickness of the ROTO products varies from 5 mm to 8 mm as per the product. The overall product obtain is a seamless to ensure perfect blend of uniform thickness & durability. •Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials or Class: Medium Duty ('B' Class) & Light Duty ('A' Class) Series of pipes only. Wall thickness of pipe varies according to class / series of pipe used. •Platform: It is 16 SWG GI Plated Platform of size - 500x450x60mm •Roto wave Slide: It is made from rotational moulded material. •Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained	

S'No	Product Description	Amount
	within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instrument. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.	
	RAINBOW CLIMBER Center frame pipe: 40NB centre frame pipe conforming to IS 1239:1979 bend and fixed over the foundation angles. •Spiral bend: Spiral shape bend structure made from 25NB galvanized pipe attached to the 40NB centre pipe with 20NB spacers in between for added support to the spiral pipe. •Spacer: 20NB hot dip galvanized spacer conforming to IS 1239 with GI thickness up to 60µ.•Support pipe: 15NB galvanized Support pipes connecting to the foundation angles. •Foundation angles: Foundation angles conforming to IS 808-1964 for strong foundation. •Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials or Class: Light Duty ('A' Class) & Medium Duty ('B' Class) Series of pipes only. Wall thickness of pipe varies according to class/ series of pipe used. Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns.it is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps. All open ends of pipe been closed by GI / PVC caps for user safety against entrapment.	
17	**SIMPLE GO ROUND** Railings: Railings which are designed conforming to EN 1176-1:1998 for standard grip requirement are made from 25NB Galvanized Pipe conforming to IS 1239 with GI thickness of 60µ. Railing frame conforming to EN 1176-1:1998 for safety against entrapment of head & neck. The Frame (2 Nos.) are fixed to the HDPE sheet platform reinforced structure. •Platform: High Density Polyethylene (HDPE) Platform Dia.1200, thickness 15 mm has high specific strength. •Platform support frame: Frame bolted with HDPE Platform for its rigidity, made from 25 NB Cross pipe welded together to a 25NB Bend pipe to form a structural frame. •Bearing assembly: Bearing assembly with two bearings	

S'No	Product Description	Amount
	1. Ball Bearing used for smooth rolling action. 2. Taper Roller Bearing take vertical thrust due to rolling moment & applied weight. The bearing assembly is fixed to the centre support stand and the platform support frame assembly is mounted over it. •Center support : 80NB hot dip galvanized centre support pipe of length 500mm conforming to IS 1239 with GI thickness of 60µ .This pipe is welded with a 50x150mm base plate at bottom for fixing the foundation angles ISA & Circular plate on top with OD 200mm for assembling the bearing. Pipes: All metal pipes are Hot Dipped Galvanized Pipes conforming to IS 1239 (Part 1) with GI thickness of 60micron. •Pipe Materials or Class: Light Duty ('A' Class) & Medium Duty ('B' Class) Series of pipes only. Wall thickness of pipe varies according to class /series of pipe used. •Powder coating: It shall be done with pure polyester raw material. Dry film Thickness maintained within the range of 50-70 microns. It is tested for adhesion test (According to ASTM-D-3359) with the help of cross hatch cutter instruments. •Nut and Bolts: Galvanized/ S.S./Allen Bolt/Button Head Allen Bolt & Nuts / Nylon Lock Nuts are used with PVC Bolt Caps.	

Makes: Koochi/ Arihant/ Hugo or equivalent as approved by KSCCL.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AF"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE DRIP / SPRINKLER IRRIGATION SYSTEM

Propose the irrigation network drawing along with your quotations. Should consider the design with below mentioned.

1. Filtration / Venture Unit.
2. Safety/ Control Unit.
3. HDPE Piping Network For mainline/ Sub mainline
4. Popup Sprinklers, hydrants and Fittings
5. Inline Drip Tubing and Fittings.
6. Automatic System
7. Irrigation pump
8. Trench Excavation and back filling in soft soil.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AG"- SUPPLY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE 12 METERS CIRCLE MUSING DANCING MUSICAL FOUNTAIN

A circular space of 12m inner dia. accordingly you can Propose your drawings and various design options with animated video along with your respective quotations. With respective you can add the Operation and maintenance with one year period. We are arranging the space for panel boards, Electrical items. Hence you need not consider civil items.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AH"- SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF AUTOMATIC BOOM BARRIER WITH POS SYSTEM WIDTH OF 4.5M AT THE PARKING ENTRANCE.

Below Mentioned are the required Boom barrier system with specific elements. Accordingly, we are expecting design proposal with Quotations.

1. Boom Barrier- Straight 4.5 mtr, 90 degree, Voltage 220 V, Motor Power 80w, Working Temperature -35 to 75 degree C, Protection Grade IP54
2. Entrance control Box (with all SMPS, Switches and accessories)
3. Standard Card Reader
4. Controller for card reader
5. Parking Fee Management software
6. Card issuer
7. Computer (Mother Board, UPS, Keyboard, Mouse etc)
8. Including Connectivity and electrical Cabling works.

Make: Hausys or equivalent as approved by KSCCL

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AI"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO CCTV SURVEILLANCE THROUGHOUT THE SITE AREA (AT MPS PARK)

We are inviting you to give proposal of CCTV surveillance system along with your quotations. Should consider the design with below mentioned specifications.

The CCTV surveillance system should consist of IP Fixed dome cameras, PTZ & fixed box cameras (outdoor type), software, server, power supply and cables. Video management software shall offer both video stream management and video stream storage management.

Make: Samsung/ SONY/ CP Plus/ Hikvision/ LG/ Bosch or equivalent as approved by KSCCL.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AJ'- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF 150 LTR/ HR REVERSE OSMOSIS WATER PURIFICATION SYSTEM (AT MPS PARK)

We here by inviting your various quotations pertaining to the RO system for internal use of park visitors. Hence, we are providing the key features of the RO system hence quote respectively.

150 Ltr/ Hr Reverse osmosis water purification system (1 Unit / 1 set)

1. high pressure pump
2. vessel with carbon & silica
3. Raw water pump 0.5HP
4. UV filtration set
5. 200ltr SS Storage tank with all Accessories and transports.

Note: Shed and plumbing connection and Electrical points should be provided from site. All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be extra

Make: Aquaguard/ Kent/ Hindutan Unilever or equivalent as approved by KSCCL.

Note: Minimum 2 years of warranty shall be assured by the respondent.
Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

PART "AK"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO ART SCULPTURES. (PROPOSED LOCATIONS 5 NOS, AT MPS PARK)

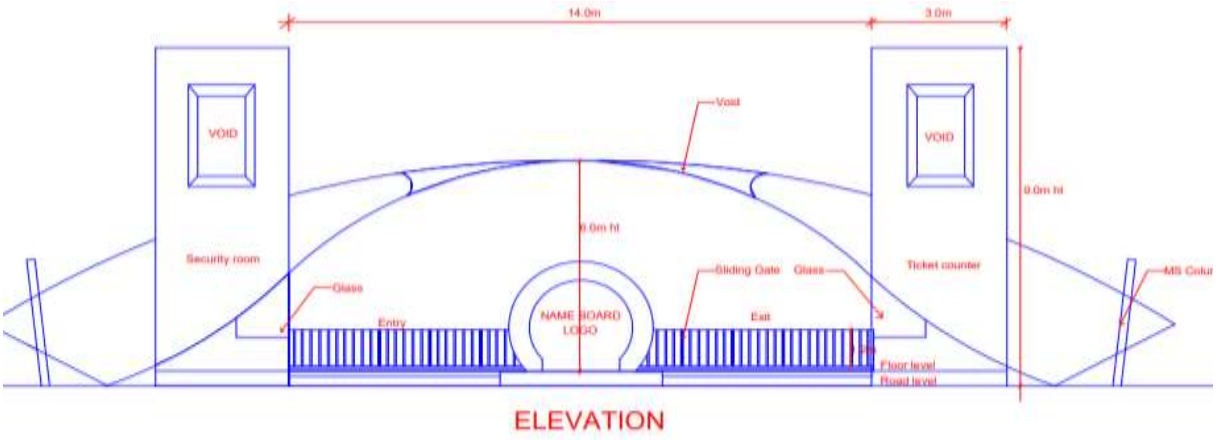
We here by inviting you the various quotations pertaining to the Art sculptures for park. The designs may be embedded in freestanding objects, in reliefs on surfaces, or in environments ranging from tableaux to contexts that envelop the spectator. An enormous variety of media may be used, including clay, wax, stone, metal, fabric, glass, wood, plaster, rubber, and random "found" objects. Materials may be carved, modeled, molded, cast, wrought, welded, sewn, assembled, or otherwise shaped and combined.

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.
Note: Minimum 2 years of warranty shall be assured by the respondent.

Figure 10: Reference Image

PART "AL"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PARAMETRIC PAVILION AT THE ENTRANCE LOCATION OF GRAND ENTRANCE THEME (AT MPS PARK).

We are highlighting the schematic pavilion structure at the entrance court. accordingly you can Propose your drawings and various design options with 3D views and detailed specifications along with your respective quotations. Below find the reference images and Main entrance elevation for your needs.



ELEVATION

Figure 11: Reference Image

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

PART "AM"- SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF EVA FOAM SOFT INTERLOCKING FLOOR MATS

S. NO	Description	QTY
1	Supply, Delivery, Installation of 12mm thick multicolored EVA (Ethylene-vinyl acetate) Foam/ Rubber Interlocking Soft Floor Mat Tiles of size 600x600 mm (laid in floor games pattern like snake & ladder etc.) with 2-side edges duly pasted on finished floor surface with adhesive.	1 Sqm

Note: All Rates shall be inclusive of all taxes and duties but exclusive of GST. GST shall be indicated separately by the respondent.

Note: Minimum 2 years of warranty shall be assured by the respondent.

Figure 12: Reference Image

PART "AN"- WATER MANAGEMENT DISTRICT / OUTLET MANAGEMENT SYSTEM (13 DMA VALVES)

S. NO	Description	QTY
1	Supply, Erection and Commissioning of Water Management District (WMD System) / OMS System which should be able to control the flow as per demand to facilitate Uniform Distribution of Water to the Consumers Zone irrespective of its location, elevation and distance from the water source. The system should be able to record, monitor and control the cumulative quantity delivered to the Consumers without any external Electric Energy and with minimum recurring cost for Communication with GSM/GPRS/RADIO etc. Consisting of, Pressure Flow Control Monitoring Device (PFCMD), Special Combination air valves, automation system for remote control and monitoring, isolation wafertype butterfly valve, Enclosure made up of Reinforced polyster with door having vandalism alert, as per detailed specifications	
a	**Zone – 3 (Housing Board Colony- 1)**	
	DMA-1 (Feeder Dia. 350 mm, peak flow 4,191.10 LPM)	1 No
	DMA-2 (Feeder Dia 300 mm, peak flow 3699.68 LPM)	1 No
b	**Zone – 7 (Rampur-1)**	
	DMA-1 Feeder Dia. (250 mm, peak flow 2110.22 LPM)	1 No
	DMA-2 (Feeder Dia 300 mm, peak flow 1767.008 LPM)	1 No
	DMA-3 (Feeder Dia. 200 mm., peak flow 1276.75 LPM))	1 No
	DMA-4 Feeder Dia. 200 mm., peak flow 1814.42 LPM)	1 No
	DMA-5 (Feeder Dia. 250 mm., peak flow 1521.02 LPM)	1 No
c	**Zone –9 (Bhagath Nagar)**	
	DMA-1 (Feeder Dia. 350 mm., peak flow 1416.63 LPM)	1 No
	DMA-2 (Feeder Dia. 250 mm., peak flow 1332.21 LPM)	1 No
	DMA-3 (Feeder Dia. 150 mm., peak flow 729.03 LPM))	1 No
	DMA-4 (Feeder Dia. 350 mm., pek flow 1820.01 LPM)	1 No
	DMA-5 (Feeder Dia. 250 mm., peak flow 1680.51 LPM)	1 No
	DMA-6 (Feeder Dia. 350 mm., peak flow 3284.13 LPM)	1 No