

Karimnagar Smart City Corporation Limited (KSCCL)

EXPRESSION OF INTEREST AND INVITATION OF QUOTATIONS

for

KSCCL desires to invite Quotations from interested parties for **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

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 14.07.2021

Invitation for Expression of Interest

KSCCL desires to invite Quotations from interested parties for **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. The detailed Specifications and BOQ can be downloaded from website of **www.karimnagarcorporation.telangana.gov.in** and will be available from **16.07.2021** onwards. ***The last date for submission of proposals is 23-07-2021 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 Flooring at Skywalk (Main central block)	Design and quotations
2.	Part- B	Lifts	Quotations
3.	Part- C	Drain Cell	Quotations
4.	Part- D	Flowerpot	Quotations
5.	Part- E	Fountain System	Design and quotations
6.	Part- F	EPDM Flooring	Quotations
7.	Part- G	Play Equipment- See Saw	Quotations
8.	Part- H	Play Equipment- Double Swing	Quotations
9.	Part- I	Play Equipment- Roto Straight Slide (1.5M)	Quotations
10.	Part- J	Play Equipment- Rainbow Climber	Quotations
11.	Part- K	Play Equipment- Simple Go Round	Quotations
12.	Part- L	End Cap	Quotations
13.	Part- M	Non-woven Geotextile Sheet	Quotations
14.	Part- N	FRP based RWH Filter	Quotations
15.	Part- O	Polymer based Honey-Comb Structure	Quotations
16.	Part- P	Sports Acrylic Paint	Quotations
17.	Part- Q	CCTV Camera	Quotations
18.	Part- R	Mural painting	Quotations
19.	Part- S	Perforated Casing Pipe	Quotations
20.	Part- T	FIH Quality Sports Artificial Turf	Quotations
21.	Part- U	V- Groove	Quotations
22.	Part- V	Filling Cracks in Walls	Quotations
23.	Part- W	Heat Reflective Paint	Quotations
24.	Part- X	Rectangular Back Board for Basketball Court	Quotations
25.	Part- Y	Walking Track and Children Play Area	Quotations
26.	Part- Z	Ladder	Quotations
27.	Part- AA	Art Sculptures	Quotations
28.	Part- AB	Granite Boulders	Quotations
29.	Part- AC	Landscape and Plantation Works	Quotations
30.	Part- AD	Outdoor Lightings	Quotations
31.	Part- AE	Eco-Friendly Kiosks	Quotations
32.	Part- AF	Low Cost Design	Quotations

1. Detailed Bills of Quantities (BOQ) for Part 'A' to Part 'AC' are given at Page 10 to 43.
2. Respondent Quoting for specialized items such as Musical fountain systems (Part E) 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	16.07.2021, 1:00 PM
2	Last date for receipt of queries on Eoi	19.07.2021, 5:00 PM
3	Posting of response to queries	21.07.2021, 5:00 PM
4	Last date for submission of Eoi	23.07.2021, 5:00 PM

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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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.

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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; tkarimnagar@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.

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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.

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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 such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation in Karimnagar under Smart City Mission”**.

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 “AF”.

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "A" - SUPPLY AND INSTALLATION OF GLASS FLOORING AS PER THE SPECIFICATIONS AND AS INSTRUCTED BY ENGINEER IN-CHARGE

S. No	Description of item	Qty
1	Supply and installation of glass flooring as per the specifications and as instructed by Engineer in-charge at Skywalk- Iconic Structure <ul style="list-style-type: none">• Glass flooring at central block• Semi Circular Glass Flooring at Central Block• Central Block Outer Side• Central Block Inner Side	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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 Makes: Kone / OTIS / Schneider. 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	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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 20mm in size complete as directed by Engineer-in-charge Drain cell for planter drain	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “E” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FOUNTAIN

S. No	Description of item	Qty.
	Filter	
	Supply of TOTALLY ANTI-CORROSIVE Polyester+Fibre Glass filter 750mm diameter with Clamp Lid. Fitted with pressure. gauge panel, manual air bleeder, water drain and emptying plug. fitted with collector arms and diffuser made from unplasticized PVC and polypropelene. Filtration velocity 50m ³ /hr/m ² . Max. working pressure: 2.5 kg/cm ² . Flow rate = 19m ³ /hr.	1 nos
	Re-circulating Pumps	
	Supply of Pump body and support in heat resistant plastic. Double protected shaft with IP-55 protection. Large capacity strainer. Noryl Impeller. Maximum Output: 2HP. Voltage 230V. Single phase. Flow rate of 24m ³ /hr @ 10 m. water head.	1 nos
	<u>Mist Effects</u>	
	Water Cascade Pump	
	Water Fountain High Pressure Pump	1 nos
	Open well Submersible Pump 5HP / 3.2 KW	
	Mist. Fountain Nozzle with Control Valve	
	Type: Foaming, MOC: Brass / Equ	1 nos
	Nozzle Light:	
	Supply of underwater LED Colour Changing light 9W/12V Light, Cool white / Warm White colour with 1 m cable, ABS Face Plate for light etc.,	1 nos
	Transformers:	
	Supply of Transformers/ Controller	1 nos
	<u>Flow Fittings</u>	
	Antivortex Main Drain: -	
	Supply of Main drain. Made in ABS White	1 nos
	Size: 12" x 12"	
	Wall / Floor Inlets: -	
	Supply of ABS Floor inlet	1 nos
	1.5" Pasted, Flow: 5m ³	
	Vacuum Point	
	Supply of ABS Vacuum Point	1 nos

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S. No	Description of item	Qty.
	2" Pasted	
	Overflow Gratings	
	Supply of ABS Overflow Gratings	1 rmt.
	Size:	
	<u>Cleaning Accessories</u>	
	Supply of Vacuum Head, Vacuum Hose 15mtrs, Telescopic Handle, Curved Brush & Deep Net	1 set
	<u>Control Valves</u>	
	Supply Controller Valves	1 lot
	<u>Control Panel:</u>	
	Control Panel	
	Plant Room electrification board, breaker, starters for pump, Lighting DB etc.:	1 nos
	Accessories Make: L&T / ABB / Seimens	
	<u>Plumbing: -</u>	
	Supply and laying of 10Kg/cm2 SUPREME or FINOLEX make PVC pipes and heavy fittings (ISI) glue joint Between Water Cascade and plant room for re-circulation.	1 lot
	<u>Electrification</u>	
	Cabling, Conduit Pipes & Accessories for Under Water Lighting with Controller and Pump Cabling work	1 lot
	<u>Filter Media</u>	
	Supply and charging of filter media to filter	1 kg
	<u>Installation:</u>	
	Installation of Filtration Equipment, Pool Basin Equipment, Underwater Lights and pumps	1 job
	<u>Commissioning</u>	
	Commissioning the pool with super chlorine charging, suction sweeping and stabilizing the pH, etc.	1 job

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “F” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE EPDM FLOORING

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/cm ³ , 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 Polyurethane 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%.	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “G” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PLAY EQUIPMENT- SEE SAW

S. No	Description of item	Qty
1	<p>Frame: Frame of standard see-saw is designed using 15NB, 20NB & 25NB G.I. pipe and it has been given radius by suitable bending techniques. Plates has been welded at places where seat has to be installed so that seats can be fixed to the frame with suitable bolting arrangement. •Roto Seat: Rotational moulded seats of thickness 6mm are used in these see-saw, it has been provided with bolts to fix it too see-saw frame which has a plate of 200X150X5mm welded on to the frame. Handle has been provided on the frame made up of 20NB pipe and also conforming to EN standards. The M Seated See saw comprises two roto seats. •See-saw stand : 50NB Hot dip Galvanized Pipe conforming to IS 1239 with GI thickness of 60μ ,Pipe length 550mm Plate 150X150X5mm is used as a foundation plate for the vertical pipe •Standard See-saw Clamp: Standard see saw clamp is used in see saw so as to provide required motion for the see saw. Bearing: The bearing used in this item is heavy duty nylon bush type •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 instrument.</p>	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “H” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PLAY EQUIPMENT- DOUBLE SWING

S. No	Description of item	Qty
1	<p>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.</p> <p>•Seat assembly:</p> <p>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.</p> <p>2) Chain: Rubber dip moulded swing chain of dia. 6mm & 1450mm Long.</p> <p>3) Hook: S-Hook of die 8mm & 145x130 Triangular hook of Grade SS 304.</p> <p>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.</p>	1 nos

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PART “I” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PLAY EQUIPMENT- ROTO STRAIGHT SLIDE

S. No	Description of item	Qty
1	<p>The attractive ROTO Wave 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</p> <ul style="list-style-type: none"> •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 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. 	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “J” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PLAY EQUIPMENT- RAINBOW CLIMBER

S. No	Description of item	Qty
1	<p>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.</p>	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “K” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PLAY EQUIPMENT- SIMPLE GO ROUND

S. No	Description of item	Qty
1	<p>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.</p> <ul style="list-style-type: none"> •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 <ol style="list-style-type: none"> 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. <p>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.</p>	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "L" - 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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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

S. No	Description of item	Qty
1	<p>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)</p> <p style="text-align: right;">Sides Base & Top Sides</p>	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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

S. No	Description of item	Qty
1	Providing of FRP based InRain or equivalent make as approved by KSCCL 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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “O” - 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 (InRain or equivalent as approved by KSCCI) (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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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

S. No	Description of item	Qty
1	Supply & Installation of 5-layer Acrylic surface International Tennis Federation Certified Durable & Required Minimal Maintenance, All weather suitable /Friendly, Protective Against UV Rays with Overline Markings with Acrylic Paint including overheads & Contractor profit etc complete.	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “Q” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE CCTV CAMERA

S. No	Description of item	Qty
	Hikvision 2MP IP Dome Camera Make: Hikvision Model: DS-2CD1323G0-I 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	
	Hikvision 16CH NVR Make: Hikvision Model: DS-7P00NI-Q2 HD Input H.265+/H.265/H.264/H.264+video formats Connectable to the third-party network cameras Up to 16 IP cameras can be connected Recording at up to 8 MP resolution Supports live view, storage, and playback of the connected camera at up to 8 MP resolution HD Output HDMI and VGA independent outputs HDMI Video output at up to 4K (3840 × 2160) resolution HD Storage 2 SATA interfaces connectable for recording and backup H.265+ compression effectively reduces the storage space and costs by up to 75% HD Transmission 1 self-adaptive 10/100/1000 Mbps network interface	1 nos
	Network video recorder	
	2 TB Hard disk	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

S. No	Description of item	Qty
	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
	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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "R" - 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 a) First coat of Asian 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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "S" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE PERFORATED CASING 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	1 rmt.

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "T" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE FIH QUALITY SPORTS ARTIFICIAL TURF

S. No	Description of item	Qty
1	Suppling and Laying of FIH Quality Sports Artificial Turf from FIH Preferred Manufacturer for outdoor use.	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "U" - 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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “V” - 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 ReArm 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	1 rmt

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “W” - 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	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "X" - 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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “Y” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE WALKING TRACK & CHILDREN PLAY AREA

S. No	Description of item	Qty
1	<p>Preparation and construction of Asphalt base pavement duly compacting with heavy roller consisting as per the directions of the Engineer-in-charge: * Providing, laying, spreading and compacting to 100mm thick with stone aggregates of specific sizes to water bound macadam including spreading in uniform thickness, hand packing, rolling with three wheel 80 -100 kN static roller in stages to proper grade and camber, applying and brooming, stone screening/binding materials to fill-up the interstices of coarse aggregate, watering and compacting to the required density * Providing & laying Base layer of 30mm compacted thickness. Hot mix asphalt bitumen macadam course rolling with three wheel 80 -100 kN static roller.*Providing & laying 20mm compacted thickness Hot mix asphalt concrete course rolling with three wheel 80 -100 kN static roller * Providing & spreading Seal coat with stone dust</p>	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "Z" - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE LADDER

S. No	Description of item	Qty
1	Supply and fixing of 7m length ladder	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “AA” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE ART SCULPTURE

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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART "AB" - 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 @ 80 tonnes per hour Rs.1311.52 including labour charges.	1 Job

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “AC” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO THE LANDSCAPE AND PLANTATION WORKS

S. No	Description of item	Qty
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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 include all the irrigation network within green wall, which includes emitter lines, supply lines within green wall & accessories, timers, pumps & Automation	1 sqm

Invitation for quotations for Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation

S. No	Description of item	Qty
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.	1 sqm
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.	1 sqm
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 watering with sprinkler till the grass establish properly complete as directed by engineer-in-charge.	1 sqm
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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	1 nos

Invitation for quotations for Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation

S. No	Description of item	Qty
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
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.	1 nos
24	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.	1 nos
25	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	1 nos
26	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.	1 nos
27	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.	1 nos
28	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.	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

S. No	Description of item	Qty
29	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.	1 nos
30	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.	1 nos
31	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.	1 nos
32	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.	1 nos
33	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.	1 nos
34	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.	1 nos
35	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	1 nos
36	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	1 nos
37	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.	1 nos
38	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	1 nos
39	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	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

S. No	Description of item	Qty
40	Supply and stacking of Viechea Merilli Gold Palm 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.	1 nos
41	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.	1 nos
42	Providing and Displaying Thunbergia grandiflora Climbers well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	1 nos
43	Providing and Displaying Tecomaria Capansis Climbers well developed with fresh & healthy 30 to 45 cm ht including transportation Complete as per direction of the officer-in-charge.	1 nos
44	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.	1 nos
45	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.	1 nos
46	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.	1 nos
47	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.	1 nos
48	Providing and displaying of Leucophyllum Frutescens having ht. 40 cm to 60 cm Well developed, full of fresh and healthy leaves from Bottom to top & including transportation Complete as per direction of the officer-in-charge.	1 nos
49	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.	1 nos
50	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.	1 nos

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

S. No	Description of item	Qty
51	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.	1 nos
52	Providing and stacking of Zephyranthes Candida "White"full of leaves in 15cm size of poly bags &as per direction of the Officer-in-charge.	1 nos
53	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.	1 nos
54	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	1 nos
55	<p>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).</p>	1 sqm

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “AD” - 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: Make - K lite - Umbrella 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 extruded 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: Make - K Lite – Sudo Mini open 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 : - Make – K Lite -Mira 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

Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

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.

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. • Ordering guide : KL-7289-CCT (Colour Temperature) • 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 Make: Luxmitra

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

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PART “AE” - 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.




Invitation for quotations for **Various Items such as Glass Flooring, Lifts, Fountains, Flowerpots, EPDM Flooring, Play Equipment, Rainwater Harvesting and Plantation**

PART “AF” - SUPPLY, DELIVERY, INSTALLATION, COMMISSIONING OF ITEMS RELATED TO LOW COST DESIGN.

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	