

		SEQUENCE OF QUANTITY (SOQ)			
SL	ITEM DESCRIPTION/PARTICULARS				
A	SOLID WASTE MANAGEMENT FOR NU CAMPUS AT THE CAPITAL OF NU	Qty	Unit	Unit Rate (Rs)	Total Cost(Rs)
1	For NU Campus - Waste container dust bins 12 ltr with handle and lid confirming IS: 12402, HDPE, Bin Capacity (Volume) (Ltrs) 10 Litres, Weight of Dustbin (Complete unit) (Grams) 414 per container, Colour green/YELLOW/RED, Load carrying Capacity (Kgs) 12, No. of Compartments in the Bin- single, Lid removable, UV Resistant-yes,	100.000	Set		
2	For NU Campus -Office Twin bins twin bins foot pedal operated, CM/L No (ISI Marked- Yes) confirming IS: 12402, HDPE, Bin Capacity (Volume) (Ltrs) 10 Litres, Weight of Dustbin (Complete unit) (Grams) 9500 per container, Colour green/YELLOW/RED, Load carrying Capacity (Kgs) 20, No. of Compartments in the Bin- twin, Lid removable, UV Resistant yes, Wall Non- Perforated, Lid foot pedal operated, with Handle, For Ref - <a href="https://mkp.gem.gov.in/waste-containers-rigid-liners-dust-bin-garbage-bin/twin-bins-twin-bins/p-5116877-40135621349-cat.html#variant_id=5116877-40135621349">https://mkp.gem.gov.in/waste-containers-rigid-liners-dust-bin-garbage-bin/twin-bins-twin-bins/p-5116877-40135621349-cat.html#variant_id=5116877-40135621349</a> OR <a href="https://mkp.gem.gov.in/waste-containers-rigid-liners-dust-bin-garbage-bin/dry-waste-wet-waste-dustbin-dry-waste-wet/p-5116877-92212111681-cat.html#variant_id=5116877-92212111681">https://mkp.gem.gov.in/waste-containers-rigid-liners-dust-bin-garbage-bin/dry-waste-wet-waste-dustbin-dry-waste-wet/p-5116877-92212111681-cat.html#variant_id=5116877-92212111681</a>	100.000	Set		
3	For NU Campus -Office Waste Bins- WASTE BIN TWIN TYPE , Material LLDPE, Bin capacity (in Litres) 30, Container shall be supply with Lid Foot Pedal Operated, Weight of Dustbin (Complete unit) (in Grams) - Must be declare" 7500 Color of the container Other than Green/Blue Wheel Lock No Load carrying Capacity (Kgs) - Must be declare 60 Wall Non- Gripping provision Frontal . No. of compartments in the Bin Twin Bin Dust Bin Stand With stand UV Resistant.	50.000	Set		
4	Canteen Waste Bins - Four Bin Waste Segregation System SS 60 Ltr, Public (Mobile containers confirming IS: 12402), C (For Public Dustbins) Type B (with 4 pivoting castors), Bin Capacity (Volume) (Ltrs) 60 Litres, Wheel Dimension in (mm) (Diameter x Thickness ) (mm x mm)- 310X410X190, Weight of Dustbin (Complete unit) (Grams) 1280, Wall Non- Perforated, Lid foot pedal operated, with handle and wheel. Towage Provision yes, Gripping Provision Both Frontal &Ventral, UV Resistant yes, IOT/QR/sensor based GIS Integrated system for auto tracking system	50.000	Set		
5	Canteen Waste Bins- Four Bin Set Waste Segregation System with Stainless Steel Trolley Capacity 22 Ltr. Each Four Bin Set, Public (Mobile containers confirming IS: 12402), C (For Public Dustbins) Type B (with 4 pivoting castors), Bin Capacity (Volume) (Ltrs) 20 Litres, Wheel Dimension in (mm) (Diameter x Thickness ) (mm x mm)- 280X390X170, Weight of Dustbin (Complete unit) (Grams) 37000, Wall Non- Perforated, Lid foot pedal operated, with handle and wheel. Towage Provision yes, Gripping Provision Both Frontal &Ventral, UV Resistant yes, IOT/QR/sensor based GIS Integrated system for auto tracking system . Material Stainless steel, Lid removable.	50.000	Set		

6	<p>Out-Door Waste Bins- OUTDOOR DUST BIN 50 LTR TWIN BIN DUST BIN 50 LTR TWIN BIN, Material LLDPE, Weight of Dustbin (Complete unit) (Grams) 16000, Colour green, Wheel Lock, Load carrying Capacity (Kgs) 100</p> <p>Wall Non- Perforated, Lid Swing type, Gripping Provision Both Frontal &amp; Ventral, UV Resistant yes</p> <p>Dust Bin stand, No. of Compartments in the Bin Twin Bin, IOT/QR/sensor based GIS Integrated system for auto tracking system . Material Stainless steel, Lid removable.</p>	100.000	Set		
7	<p>For NU Campus -Outdoor 1100 Ltr DUSTBIN , UtilityPublic (Mobile containers confirming IS: 12402), Class confirming to IS:12402 (For Public Dustbins)Type B (with 4 pivoting castors),MaterialHDPE,CAPACITYBin Capacity (Volume) (Ltrs)1100 Litres, DIMENSIONSWheel Dimension in (mm) (Diameter x Thickness ) (mm x mm)200X60, Weight of Dustbin (Complete unit) (Grams)50000, CONSTRUCTIONALColourgreen &amp; OTHERS AS PER DESIGN, Load carrying Capacity (Kgs)1100, Wall-Non- Perforated, Lid-hinged, with handle &amp; wheel , Wheel Material-PVC, Towage Provision-yesGripping ProvisionBoth Frontal &amp; Ventral</p> <p>UV Resistant-yes, No. of Compartments in the Bin single, IOT/QR/sensor based GIS Integrated system for auto tracking system . Material Stainless steel, Lid removable.</p>	50.000	Set		
8	<p>For NU Campus -Garbage container 2 cubic meters (Pragati Engineering /equivalent, (container for tipper) Material-Corrosion free sheet metal, CAPACITY Bin Capacity (Volume) (Ltrs)-500 Litres (as per IS: 12402 Pt1 and 2), Weight of Dustbin (Complete unit) (Grams)-20000, CONSTRUCTIONALColouras per design approval ,Load carrying Capacity -Kgs)-2000, Wall-Non- Perforated, Lid-removable, Gripping Provision-Frontal, Plugged outlet for washing &amp; draining-Without, No. of Compartments in the Bin- Twin Bin, Vehicle /tipper for its carriage from waste collection point inside campus to waste disposal and segregation station will be in the scope of the contractor as a part of gas supply including loading unloading all. This job is conditional and part of the system without any additional charge for carriage of the waste container from various part of the campus to /from waste disposal &amp; segregation station. IOT/QR/sensor based GIS Integrated system for auto tracking system . Material Stainless steel, Lid removable.</p>	25.000	Set		

9	<p>For NU Campus -Support for the campus waste collection - Colour of E Cart GREEN and BLUE as per the University approval. The E Cart Must Fabricated From Good Quality Steel properly Painted to avoid Rusting for more than 5 Years,YES, Name and Grade of Steel from which E Cart Body FramedMS, Kerb Weight of E- Cart (kg)342 kilogram or equivalent, Garbage Carrying Capacity (kg)309 kilogram, minimum -300KG, Run Distance (for a Full Charge of Battery , to be tested with full load at maximum AIS-040 )) (km)80, Number of Bins2, Capacity of Individual Bins in litres (Ltrs)750 liter, Type of Chassis for E cartMT, Ground Clearance as per IS : 9435 (mm)2100, Wheel Base (mm) &amp;Turning Radius (mm)2.88 millimeter or standard as per design, Power Transmission from Motor Shaft to WheelsOther Mechanical Mechanisms, Type of Battery as per AIS-048Lead Acid , EV Grade , Tubular Deep Discharge, Capacity of the Battery approved by ICAT/ARAI (Ah)100, Battery Voltage ,Nominal (Volts)48V, Average Dimensions of the Battery ( L x Wx H ) mm3)410*176*234, Nominal Filled Weight of the Battery (kg)118 kilogram, Motor Controller ( Must Suitable for starting, accelerating, decelerating, driving , and stopping of E CartAVAILABLE, Battery Charger-220/230 V Nominal Input Voltage , High Efficiency Type, Charging Current (A)-12, Type of Motor-Brushless DC Motor, Motor Output Power ,48V/60V at Full Load (watt)-1660, Overall Efficiency of the E Cart ( to be tested at Full Load with maximum speed as per Concerned AIS standards (%) - 88, Gradeability of E-cart , ( to be tested at full procedure as per AIS -003 Load (Degree)- 75, Certification:Vehicle CertificationICAT, If Vehicle Certification from Others Agency ,Name of the Agency otherwise put NAICAT, ConstructionalSeating Facility-For Driver only, Length of E -cart as per Gazette Notification by Ministry of Road and Transport Oct , 2014 (meters)-2.8, Width of E -Cart as per Gazette Notification by Ministry of Road and Transport Oct , 2014 (meters)-1, Height of E -Cart as per Gazette Notification by Ministry of Road and Transport Oct , 2014 (meters)-1.8, Dimensions of the cabin Provided for Bins (mm x mm x mm) (mm3)-1300*900*900, Size of Front Tyre (mm)-3.00-12, Size of Rear Tyre-3.00-12, Brake Type (Front)-DRUM, Brake Type ( Rear )-DRUM, Suspension System (Front)-HYDRULICSHOCKABSORBE, Suspension System ( Rear )-LEAF SPRING, Reverse Gear Facility-YesThe Mounting of Batteries-Yes, Vehicle lighting System-Filament Type, Instrument Panel Containing Speedometer and Battery Charging Indicator-Yes,Glass Windshield with wiper motor as approved by ICAT/ARAI-Yes, Equipped with Start and Stop Button, parking Lights , Back lights with Reverse Gear Facility-Yes, Equipped with Fire ExtinguisherYes, Equipped with First Aid Box-Yes, Yellow Color reflective tape on Front and Rear Side of the E Cart-Yes, E Cart Integration -Yes, Performance Parameters:Speed of the E- Rickshaw as per CMVR -2014 with latest amndmt (to be tested with Full Load ) (kmph)-20, Battery Warranty-1 year, No. Of Free Service-5, Compliance of Centre of Gravity of E Cart as Compulsory Norms for Safety-Yes, Confirming to Applicable Environmental Test-Yes, Noise level must be Low during Operation-Yes, Including vehicle registration act as per applicable rule. The driver and labor support will be extended by the contractor. IOT/QR/sensor based GIS Integrated system for auto tracking system . Material Stainless steel, Lid removable.</p>	1.000	Set		
10	<p>Development and Implementation of Solid Waste Management System along with 1 year Hosting and 1 year free support.</p> <ul style="list-style-type: none"> <li>•Administrative Web Portal</li> <li>•Garbage Collector Mobile App</li> <li>•Resident Mobile App</li> </ul>	1.000	Job		
11	<p>QR Code Tagging for equipment installed inside campus and as per the University instructions:</p> <ul style="list-style-type: none"> <li>•Metal Tag with Thickness of 0.9 mm</li> <li>•Tax Fixing per Asset</li> </ul>	550.000	Nos		
12	Hosting of Solid Waste Management System after 1 year (Automation Part)	1.000	Job		
13	Disposal & Segregations Stations, 3D Innovative waste collection Stations at various locations (25 Nos-10ftx7ft), decompositions chambers	25.000	Nos		
<p><b>COLLECTION FROM NEAR VICINITY AND SUPPLY RATE CONTRCAT FOR THE SUPPLY OF BIO WASTE AS A FEED FOR THE BIOGAS PLANT CAPACITY 2500 SCUM PER DAY AT NU CAMPUS</b></p>					
B	<b>BIO WASTE/FEED DESCRIPTION/PARTICULARS FOR RATE CONTRACT</b>	<b>Qty</b>	<b>Unit</b>	<b>Unit Rate (Rs)</b>	<b>Total Cost(RS)</b>

14	<b>Bio Feed :Cattle Dung Slurry (8-10%DM)</b>	<b>25</b>	TON PER DAY		
15	<b>Bio Feed :Grass silage/whole wheat crop/Maize silage / fodder beet(28-33%DM)</b>	<b>160</b>	TON PER DAY		
16	<b>Bio Feed :Maize grain, Crude glycerine, Wheat grain, Rape meal (80-90%DM)</b>	<b>550</b>	TON PER DAY		
17	<b>Bio Feed :Sudan grass, Sugar beet, Kale, Straw, Oats grain, Chaff, Potatoes, Rye grain, Clover grass, Sorghum, Grass, Red clover, Jerusalem artichoke, Vegetable and others grain waste</b>	<b>250</b>	TON PER DAY		
18	<b>Bio Feed :Turnip, Rhubarb, Triticale, Oilseed rape, Canary grass, Alfalfa, Clover, Barley, Hemp, Wheat grain, Peas, Ryegrass, Leaves, Fodder beet, Fodder beet, Food Market Waste,</b>	<b>350</b>	TON PER DAY		
19	<b>Bio Feed :Cooked Food waste from kitchen /restaurant</b>	<b>20</b>	TON PER DAY		
20					