

## Contract | अनुबंध



Contract No | अनुबंध क्रमांक: GEMC-511687760591678

Generated Date | अनुबंध तिथि: 29-Dec-2023

## Organisation Details | संगठन विवरण

Type | प्ररूप : Central Autonomous  
Ministry | मंत्रालय : Ministry of Education  
Department | विभाग : Department of Higher Education  
Organisation Name | संगठन का नाम : Indian Institute of Technology (IIT)  
Office Zone | कार्यालय क्षेत्र : Huaz Khas Delhi

## Buyer Details | खरीदार विवरण

Designation | पद : SLA IIT  
Contact No. | संपर्क नंबर : -  
Email ID | ईमेल आईडी : buycon1006.iiti.dl@gembuyer.in  
GSTIN | जीएसटीआईएन : -  
Address | पता : Center for Energy Studies, IIT Delhi, Hauz Khas, New Delhi, SOUTH DELHI, DELHI-110016, India

## Financial Approval Detail | वित्तीय स्वीकृति विवरण

IFD Concurrence | आईएफडी सहमति : No  
Designation of Administrative Approval | प्रशासनिक अनुमोदन का पदनाम : Professor  
Designation of Financial Approval | वित्तीय अनुमोदन का पदनाम : Professor

## Paying Authority Details | भुगतान प्राधिकरण विवरण

Role : PAO  
Payment Mode | भुगतान का तरीका : Offline  
Designation | पद : Assistant Registrar  
Email ID | ईमेल आईडी : buycon29.iit.delhi@gembuyer.in  
GSTIN | जीएसटीआईएन : 07AAAT10393L1ZI  
Address | पता : Accounts Section, IIT Delhi Hauz Khas,, South West delhi, DELHI-110016, India

## Seller Details | विक्रेता विवरण

GeM Seller ID | जेम विक्रेता आईडी : B8B4200001063331  
Company Name | कंपनी का नाम : MAA DURGA ENGINEERING CORPORATION  
Contact No. | संपर्क नंबर : 09200736322  
Email ID | ईमेल आईडी : mdcsolar@gmail.com  
Address | पता : HOUSE NO 1065, Ashish Gupta, HANUMAN NAGAR NAI BASTI WARD NO 15 SATNA, Satna, Satna, MADHYA PRADESH-485005, -  
MSME Registration number | एमएसएमई पंजीकरण संख्या : UDYAM-MP-40-0014792  
MSE Social Category | एमएसई सामाजिक श्रेणी : General  
MSE Gender | एमएसई लिंग श्रेणी : Male  
GSTIN | जीएसटीआईएन : 23AXTPG2535L2Z7

\*GST / Tax invoice to be raised in the name of | जिसके नाम के पक्ष में GST/TAX इनवॉइस पेश किया जाएगा - Buyer

Delivery Instructions | वितरण निर्देश : NA

## Product Details | उत्पाद विवरण

| #                                            | Item Description   आइटम विवरण                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Ordered Quantity   आइटम विवरण | Unit   इकाई | Unit Price (INR)   इकाई मूल्य (INR) | Tax Bifurcation (INR)   कर विभाजन (INR) | Price (Inclusive of all Duties and Taxes in INR)   मूल्य (INR) में सभी शुल्क और कर सहित |
|----------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|-------------|-------------------------------------|-----------------------------------------|-----------------------------------------------------------------------------------------|
| 1                                            | <b>Product Name</b>   उत्पाद का नाम : LUMINOUS Polycrystalline Off-Grid Solar Photovoltaic (PV) power plant, Capacity 1 kVA<br><b>Brand</b>   ब्रांड : LUMINOUS<br><b>Brand Type</b>   ब्रांड प्रकार : Registered Brand<br><b>Catalogue Status</b>   कैटलॉग की स्थिति : Catalogue not verified by OEM<br><b>Selling As</b>   कैसे बेचा जा रहा है : OEM verified Reseller<br><b>Category Name &amp; Quadrant</b>   श्रेणी का नाम और चतुर्थांश : Off - Grid Solar Photovoltaic (PV) Power Plant (Q3)<br><b>Model</b>   मॉडल : Solar Off Grid Combo - 1500 VA<br><b>HSN Code</b>   एचएसएन कोड : HSN not specified by seller | 1                             | pieces      | 93,527                              | NA                                      | 93,527                                                                                  |
| Total Order Value   कुल ऑर्डर मूल्य (in INR) |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                               |             |                                     |                                         | 93,527                                                                                  |

## Consignee Detail | परेषिती विवरण

| S.No   क्र.सं. | Consignee   परेषिती                                                                                         | Item   वस्तु                      | Lot No.   लॉट नंबर | Quantity   मात्रा | Delivery Start After   दिनांक के बाद डिलीवरी शुरू करना है | Delivery To Be Completed By   वितरण पूरा कब तक करना है |
|----------------|-------------------------------------------------------------------------------------------------------------|-----------------------------------|--------------------|-------------------|-----------------------------------------------------------|--------------------------------------------------------|
|                | Designation   पद : SLA IIT<br>Email ID   ईमेल आईडी : buycon1006.iiti.dl@gembuyer.in<br>Contact   संपर्क : - | LUMINOUS Polycrystalline Off-Grid |                    |                   |                                                           |                                                        |

|                                                                                                                 |                                                                                                                                           |                                                                                                                                                                                                             |   |   |             |             |
|-----------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-------------|-------------|
| 1                                                                                                               | GSTIN   जीएसटीआईएन : -<br>Address   पता : Center for Energy Studies, IIT Delhi, Hauz Khas, New Delhi,<br>SOUTH DELHI, DELHI-110016, India | Solar Photovoltaic (PV)<br>power plant, Capacity 1<br>kVA                                                                                                                                                   | - | 1 | 29-Dec-2023 | 13-Jan-2024 |
| Product Specification for LUMINOUS Polycrystalline Off-Grid Solar Photovoltaic (PV) power plant, Capacity 1 kVA |                                                                                                                                           |                                                                                                                                                                                                             |   |   |             |             |
| Specification  <br>विनिर्देश                                                                                    | Sub-Spec   उप-विनिर्देश                                                                                                                   | Value   मूल्य                                                                                                                                                                                               |   |   |             |             |
| PV Module                                                                                                       | Module glass air withstand capacity (km/hrs)                                                                                              | >=200km/hr                                                                                                                                                                                                  |   |   |             |             |
|                                                                                                                 | Type of Solar Module                                                                                                                      | Polycrystalline                                                                                                                                                                                             |   |   |             |             |
|                                                                                                                 | Additional features                                                                                                                       | PID Resistance Technology,Multi-Layer EVA Encapsulation                                                                                                                                                     |   |   |             |             |
|                                                                                                                 | Rated power of each PV module used                                                                                                        | 290W                                                                                                                                                                                                        |   |   |             |             |
|                                                                                                                 | Module conformity to specification                                                                                                        | IEC 61215 Ed2,IEC 61701,IEC 61730 -1,IEC 61730-2                                                                                                                                                            |   |   |             |             |
|                                                                                                                 | Module linear power output degrassdation warranty                                                                                         | 25 year                                                                                                                                                                                                     |   |   |             |             |
|                                                                                                                 | Zero negative power tolerance                                                                                                             | Yes                                                                                                                                                                                                         |   |   |             |             |
|                                                                                                                 | Module frame material                                                                                                                     | anodised aluminium alloy frame                                                                                                                                                                              |   |   |             |             |
|                                                                                                                 | Juction box Protection class                                                                                                              | IP67                                                                                                                                                                                                        |   |   |             |             |
|                                                                                                                 | open circuit voltage                                                                                                                      | 45,23 Volt                                                                                                                                                                                                  |   |   |             |             |
|                                                                                                                 | Marking on PV module                                                                                                                      | Name of manufacturer,month & year of manufacturing,I-V curve of module,Peak Power,Im,Vm,Fill factor,Serial no.,Model number,Name of Lab issuing IEC,date & year of obtaining IEC PV module qualification    |   |   |             |             |
|                                                                                                                 | Module efficiency                                                                                                                         | >=19%                                                                                                                                                                                                       |   |   |             |             |
|                                                                                                                 | Module product warranty                                                                                                                   | 25 year                                                                                                                                                                                                     |   |   |             |             |
| Power<br>Conditioning<br>Unit (PCU)                                                                             | Power factor for lead                                                                                                                     | >=0.9                                                                                                                                                                                                       |   |   |             |             |
|                                                                                                                 | Charger technology                                                                                                                        | MPPT                                                                                                                                                                                                        |   |   |             |             |
|                                                                                                                 | Warranty of PCU                                                                                                                           | 24 month                                                                                                                                                                                                    |   |   |             |             |
|                                                                                                                 | Electrical protections                                                                                                                    | Under/over voltage protection at input & output of battery,Reverse polarity protection for array & battery,Output overload protection,Short circuit protection,Over temperature protection,Surge protection |   |   |             |             |
|                                                                                                                 | Output phase                                                                                                                              | Single                                                                                                                                                                                                      |   |   |             |             |
|                                                                                                                 | Charging stages                                                                                                                           | Boost,Absorption,Float                                                                                                                                                                                      |   |   |             |             |
|                                                                                                                 | Output waveform type                                                                                                                      | Pure Sine Wave                                                                                                                                                                                              |   |   |             |             |
|                                                                                                                 | Rated Output Voltage (AC)                                                                                                                 | 230 Volt                                                                                                                                                                                                    |   |   |             |             |
|                                                                                                                 | Rated Power (kVA)                                                                                                                         | 1.5                                                                                                                                                                                                         |   |   |             |             |
|                                                                                                                 | Conformity to specification                                                                                                               | IEC 61683,IEC 60068,IEC 60529                                                                                                                                                                               |   |   |             |             |
|                                                                                                                 | Controller                                                                                                                                | 32 bit DSP controller                                                                                                                                                                                       |   |   |             |             |
|                                                                                                                 | Automatic changeover between solar & AC mains provided                                                                                    | Yes                                                                                                                                                                                                         |   |   |             |             |
|                                                                                                                 | Efficiency at STP for linear loading                                                                                                      | >=95%                                                                                                                                                                                                       |   |   |             |             |
|                                                                                                                 | Protection class                                                                                                                          | IP21                                                                                                                                                                                                        |   |   |             |             |
|                                                                                                                 | Rated Frequency                                                                                                                           | 50 Hertz                                                                                                                                                                                                    |   |   |             |             |
|                                                                                                                 | Input Phase                                                                                                                               | Single                                                                                                                                                                                                      |   |   |             |             |
|                                                                                                                 | Maximum operating ambient temperature                                                                                                     | 50 degree Celsius                                                                                                                                                                                           |   |   |             |             |
|                                                                                                                 | Switching device                                                                                                                          | IGBT                                                                                                                                                                                                        |   |   |             |             |
|                                                                                                                 | Nominal battery DC system voltage                                                                                                         | 24 Volt                                                                                                                                                                                                     |   |   |             |             |
|                                                                                                                 | Display parameter                                                                                                                         | Array voltage,Array current,Array power,Battery voltage,Battery current,Grid Voltage,Output. Day kWh,Date,Time                                                                                              |   |   |             |             |
|                                                                                                                 | Power factor for lag                                                                                                                      | >=0.9                                                                                                                                                                                                       |   |   |             |             |
| Module<br>Mounting<br>Structure                                                                                 | Material of all nuts, bolts & factners etc                                                                                                | Stainless steel                                                                                                                                                                                             |   |   |             |             |
|                                                                                                                 | Adjacent Module air gap                                                                                                                   | 30 millimeter                                                                                                                                                                                               |   |   |             |             |
|                                                                                                                 | Mounting structure wind withstand ability                                                                                                 | >=200 km/hr                                                                                                                                                                                                 |   |   |             |             |
|                                                                                                                 | Weather proof Juction box provided for connections                                                                                        | Yes                                                                                                                                                                                                         |   |   |             |             |
|                                                                                                                 | Module tilt angle                                                                                                                         | 26 degree                                                                                                                                                                                                   |   |   |             |             |
|                                                                                                                 |                                                                                                                                           |                                                                                                                                                                                                             |   |   |             |             |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                             |                                                                                                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Type                                                                                        | Galvanised module mounting structures(MMS)                                                                                                                                                             |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Thickness(micron)                                                                           | >=80                                                                                                                                                                                                   |
| Generic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Component                                                                                   | Balance of System (BOS) Items/Components,Module Mounting Structure,Battery Rack/Trolley,Electrical Connections,DC MCB/DC Distribution Box,AC DISTRIBUTION BOARD (ACDB),Earthing & Lightning Protection |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Additional features to be specified                                                         | None                                                                                                                                                                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | capacity of power plant (kVA)                                                               | 1                                                                                                                                                                                                      |
| Battery specifications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Suitable battery stand/size with roller provided                                            | Yes                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Acid level indicator provided                                                               | Yes                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Battery voltage                                                                             | 12 Volt                                                                                                                                                                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Battery warranty                                                                            | 5 year                                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | No of battery                                                                               | 2                                                                                                                                                                                                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Battery type                                                                                | C 10 Tubular Lead Acid                                                                                                                                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Battery capacity (Ah)                                                                       | 150                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Carrying handle                                                                             | Yes                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Terminal cover provided                                                                     | Yes                                                                                                                                                                                                    |
| BOS items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Switches/Circuit breaker/connector with SPD as per                                          | IEC 529,SPD as per IEC 61643-11/12,IEC 60947,IS 60947                                                                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | PVC insulated cable for working voltage and UV protected for outer installation as per      | TUV,IEC 60228,IS 694,IS 1554                                                                                                                                                                           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Protection class of Junction box/enclosure box                                              | IP 55,IP 65                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Earthing & Lighting protection as per                                                       | IEC- 62561-7                                                                                                                                                                                           |
| Certifications and Standards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | ISO certification number and date                                                           | 305021040501Q                                                                                                                                                                                          |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Copies of reports and certifications to be furnished to buyer on demand at time of supplies | Yes                                                                                                                                                                                                    |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Manufacturer should be ISO certified                                                        | Yes                                                                                                                                                                                                    |
| <p><b>Note   टिप्पणी:</b> Seller has given an undertaking that it has made arrangements for getting the stores from an authorized distributor / dealer / channel partner of the OEM of the offered product. At the time of delivery of goods, Seller will provide necessary chain documents (in the form of GST Invoice) to prove that the supplied goods are genuine and are being sourced from an authorized distributor / dealer / channel partner of the OEM. In case of any complaint about genuineness of the supplied products, Seller shall be responsible for providing genuine replacement supplies.</p> |                                                                                             |                                                                                                                                                                                                        |
| <p><b>ePBG Detail   ईपीबीजी विवरण</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                             |                                                                                                                                                                                                        |
| <p><b>NA</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                             |                                                                                                                                                                                                        |
| <p><b>Terms and Conditions   नियम और शर्तें</b></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                             |                                                                                                                                                                                                        |
| <p><b>1. General Terms and Conditions-</b></p> <p>1.1 This contract is governed by the <a href="#">General Terms and Conditions</a>, conditions stipulated to this Product/Service as provided in the Marketplace.</p> <p>1.2 This Contract between the Seller and the Buyer, is for the supply of the Goods and/ or Services, detailed in the schedule above, in accordance with the General Terms and Conditions (GTC) unless otherwise superseded by Goods / Services specific Special Terms and Conditions (STC) and/ or BID/Reverse Auction Additional Terms and Conditions (ATC), as applicable</p>          |                                                                                             |                                                                                                                                                                                                        |
| <p>Note: This is system generated file. No signature is required. Print out of this document is not valid for payment/ transaction purpose.</p> <p>नोट: यह सिस्टम जनरेटेड फाइल है। कोई हस्ताक्षर की आवश्यकता नहीं है। इस दस्तावेज़ का प्रिंट आउट भुगतान/लेनदेन उद्देश्य के लिए मान्य नहीं है।</p>                                                                                                                                                                                                                                                                                                                  |                                                                                             |                                                                                                                                                                                                        |