भारतीय राष्ट्रीय महासागर सूचना सेवा केंद्र
पृथ्वी विज्ञान मंत्रालय, भारत सरकार
"ओशियन वैली", प्रगति नगर (बी. ओ), निज़ामपेट (एस. ओ), हैदराबाद – 500 090
दूरभाष सं. 040-2388 6002 / 23886074 फैक्स : 040-2389 2910 / 2389 5001
INDIAN NATIONAL CENTRE FOR OCEAN INFORMATION SERVICES
Ministry of Earth Sciences, Government of India
"Ocean Valley", Pragathi Nagar (BO), Nizampet (SO), Hyderabad - 500 090
Phone No.040-2388 6002/23886074 Fax: 040-2389 2910/2389 5001

इंकॉइस:क्रय: 59/2026 दिनांक: 28. 10.2026
Ref. INCOIS: PUR: 59/2026 Date: 28. 10. 2026

सरकारी ई बाज़ार द्वारा निविदा सूचना आमंत्रण

Notice Inviting Tender through Government E Market Place (GeM)

भारतीय राष्ट्रीय महासागर सूचना सेवा केंद्र, हैदराबाद भारत सरकार के पृथ्वी विज्ञान मंत्रालय के अंतर्गत एक स्वायत्त निकाय है।
Indian National Centre for Ocean Information Services (INCOIS), Hyderabad is an autonomous body under Ministry of Earth Sciences, Government of India.

निम्न विवरणों के लिए पंजीकृत विक्रेताओं से निविदाएं /बोलियां आमंत्रित की जाती हैं। जीईएम की एक अधिप्राप्ति होने के नाते बोलियां केवल सरकारी ई बाज़ार (जीईएम) **http://gem.gov.in/** द्वारा ऑनलाइन से ही जमा करवानी होगा । एनआईटी का संक्षिप्त विवरण नीचे दिया जा रहा है।
Tenders/Bids are invited from registered vendors of GeM for the following items. Being a GeM procurement, the bids has to be submitted online through **Government E- Market Place (GeM) http://gem.gov.in/** only. The brief details of NIT are appended below.

क्र. सं. Sl. No	कार्य का नाम Name of the Work	बोली संदर्भ सं. Bid Reference No.	बोली संख्या एवं दिनांक Bid Number and Date	बोली समाप्ति की तारीख और समय Bid end date and Time
(1)	हैदराबाद स्थित INCOIS में दो (2) नग 630 kVA क्षमता वाले CPCB IV+ मानकों के अनुरूप डीजल जनरेटर सेटों की ध्वनिरोधी आवरण सहित आपूर्ति, स्थापना, परीक्षण एवं प्रचालन-प्रारंभ; सिंक्रोनाइजिंग पैनल के नियंत्रकों का उन्नयन; तथा संबंधित विद्युत एवं सिविल कार्यों का निष्पादन। इस कार्य के अंतर्गत चार (4) मौजूदा डीजल जनरेटर सेटों (2×600 kVA एवं 2×320 kVA) को वापस लेने की व्यवस्था (बाय-बैक) भी शामिल होगी। इसके अतिरिक्त, दो (2) वर्ष की व्यापक स्थल-आधारित वारंटी तथा तत्पश्चात तीन (3) वर्ष की व्यापक वार्षिक अनुरक्षण संविदा (CAMC) प्रदान की जाएगी। "Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad	इंकॉइस:क्रय: 59/2026 INCOIS: PUR: 59/2026	जीईएम/2026/बी/8208778 दिनांक: 28.10.2026 GEM/2026/B/8208778 dated 28.10.2026	18.11.2026 15:00:00

जीईएम की एक अधिप्राप्ति होने के नाते बोलियों को केवल जीईएम पोर्टल अर्थात बोली/आरए के खाने के अंतर्गत **http://gem.gov.in/** द्वारा ऑनलाइन से ही जमा किया जाए। किसी भी प्रकार की सहायता के लिए कृपया जीईएम पोर्टल की हेल्प लाइन से संपर्क करें। निम्न अधिकारियों से भी संपर्क किया जा सकता है: श्री वी. सुब्रह्मण्यम (ईमेल: manyam@incois.gov.in) / श्री दसारी प्रसाद (ईमेल: dasariprasad@incois.gov.in)

Being a GeM procurement, the bid has to be submitted online through the GeM portal i.e., http://gem.gov.in under the Bids/RAs column. For any assistance, please contact help line of GeM portal. The following officials may also be contacted: Mr. V. Subrahmanyam (email: manyam@incois.gov.in)/Mr. Dasari Prasad (email: dasariprasad@incois.gov.in)

(वी. सुब्रह्मण्यम/V. Subrahmanyam)
(प्रशासनिक अधिकारी (क्रय)/ Administrative Officer (Purchase)
निविदा आमंत्रण प्राधिकारी, इंकॉइस/
Tender Inviting Authority, INCOIS

बिड संख्या/Bid Number: GEM/2026/B/8208778

दिनांक /Dated: 28-10-2026

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	18-11-2026 15:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	19-11-2026 15:00:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	120 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Ministry Of Earth Sciences
विभाग का नाम/Department Name	Department Of Earth Sciences
संगठन का नाम/Organisation Name	Earth Sciences Secretariate
कार्यालय का नाम/Office Name	Indian National Centre For Ocean Information Servi
शिकायत निवारण के संपर्क विवरण/ Contact details of Grievance redressal	HOD Email id :bala@incois.gov.in Buyer Email id: dasariprasad@incois.gov.in
कुल मात्रा/Total Quantity	5415
वस्तु श्रेणी /Item Category	630 kVA CPCB IV plus DG sets - net of buyback , Installation testing and commissioning of DG sets , Additional run of 3.5C x 300 sq mm Al cable , Yard lighting with 9 m mini high-mast , RCC M25 in DG plinths and footings , Centering and shuttering , PCC paving 150 mm , Cable trench with RCC covers , RCC hume pipe for cable crossings , Structural steel for 12 m x 10 m shed , Roofing sheet with gutters , GI chain-link fencing 2.0 m high , Brick masonry plinth wall , Rubble masonry retaining wall , Cement sand plaster , Primer and exterior paint , CAMC of DG plant - Year 3 , CAMC of DG plant - Year 4 , CAMC of DG plant - Year 5 , Other items for completion of work
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Diesel generator set 630 kVA CPCB IV plus with acoustic enclosure and buyback, Installation testing and commissioning of diesel generator sets, Comprehensive AMC of diesel generator set, Structural steel work for open shed, GI chain link fencing

बिड विवरण/Bid Details	
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	**Searched String**: Diesel generator set 630 kVA CPCB IV plus with acoustic enclosure and buyback Category not available on GeM for the text string uploaded by the buyer **Searched String**: Installation testing and commissioning of diesel generator sets Category not available on GeM for the text string uploaded by the buyer **Searched String**: Comprehensive AMC of diesel generator set Diesel Generator Set as per JSS 6115-27-2022, Diesel Power Generator (V2), Diesel Generator Set As per MHA Specifications (V2) **Searched String**: Structural steel work for open shed Steel Tubes for Structural Purposes (V2) as per IS 1161, Chair for General Purpose, Flux for submerged arc welding of structural steel (BEML) -as per C4202 BEML Welding Electrode, Steel Plates for Structural and General Engineering Purposes (V2), Welding Rods and Filler Wire for Gas Shielded Arc Welding of Structural Steel as per IS 6419, Hollow Steel Sections for Structural use (V2) as per IS 4923 (Latest) **Searched String**: GI chain link fencing Galvanized Steel Chain Link Fence Fabric (V2) conforming to IS 2721, Round Steel Short Link Chains (V3), Plastic Chain, Fibre Media Converters (V2)
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / **Relevant Categories selected for notification**	• Diesel Power Generator (V2)
बीओक्यू शीर्षक /**BOQ Title**	SITC OF 2 NOS OF 630 KVA DG SETS UNDER BUY BACK OFFER
पिछले 3 वित्तीय वर्षों का बिडर का न्यूनतम औसत वार्षिक वित्तीय टर्नओवर/**Minimum Average Annual Turnover of the bidder (For the last 3 Financial Years)**	130 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/**Years of Past Experience Required for same/similar service**	3 Year (s)
टर्नओवर पात्रता मानदंड/**Turnover eligibility criteria**	GeM verified turnover
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / **MSE Relaxation for Years Of Experience and Turnover**	Yes | Complete
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / **Startup Relaxation for Years Of Experience and Turnover**	Yes | Complete

बिड विवरण/Bid Details	
विक्रेता से मांगे गए दस्तावेज़/Document required from seller	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),OEM Authorization Certificate,Additional Doc 1 (Requested in ATC),Compliance of BoQ specification and supporting document *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
क्या आप निविदाकारों द्वारा अपलोड किए गए दस्तावेज़ों को निविदा में भाग लेने वाले सभी निविदाकारों को दिखाना चाहते हैं? संदर्भ मेनू है/Do you want to show documents uploaded by bidders to all bidders participated in bid?	Yes (Documents submitted as part of a clarification or representation during the tender/bid process will also be displayed to other participated bidders after log in)
बिड लगाने की समय सीमा स्वतः नहीं बढ़ाने के लिए आवश्यक बिड की संख्या। / Minimum number of bids required to disable automatic bid extension	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
ऑटो एक्सटेंशन अधिकतम कितनी बार किया जाना है। / Number of Auto Extension count	1
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
बिड का प्रकार/Type of Bid	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/Primary product category	630 kVA CPCB IV plus DG sets - net of buyback
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	4 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No
मूल्यांकन पद्धति/Evaluation Method	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / Financial Document Required	Yes
मध्यस्थता खंड/Arbitration Clause	No
सुलह खंड/Mediation Clause	No

ईएमडी विवरण/EMD Detail

एडवाईजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	520000

ईपीबीजी विवरण /ePBG Detail

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईपीबीजी प्रतिशत (%)/ePBG Percentage(%)	5.00
ईपीबीजी की आवश्यक अवधि (माह) /Duration of ePBG required (Months).	66

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित केटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने है। एमएसई केटेगरी के अंतर्गत केवल वस्तुओं के लिए विनिर्माता तथा सेवाओं के लिए सेवा प्रदाता ईएमडी से छूट के पात्र हैं। व्यापारियों को इस नीति के दायरे से बाहर रखा गया है।/EMD EXEMPTION: The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category as per GeM GTC with the bid. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.

(b).ईएमडी और संपादन जमानत राशि, जहां यह लागू होती है, लाभार्थी के पक्ष में होनी चाहिए। / EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

(c).ईएमडी और संपादन जमानत राशि लाभार्थी के पक्ष में होनी चाहिए। / Earnest Money Deposit (EMD) shall also be accepted by the buyer in the form of a surety bond.

लाभार्थी /Beneficiary :
DIRECTOR INCOIS
Payable at INCOIS Hyderabad Indian National Centre for Ocean Information Services, Ministry of Earth Sciences, Govt. of India, Pragathi Nagar, Hyderabad-90
(Director Incois)

बोली विभाजन लागू नहीं किया गया/ Bid splitting not applied.

एमआईआई खरीद वरीयता / MII Purchase Preference

एमआईआई खरीद वरीयता / MII Purchase Preference	Yes
मेक इन इंडिया विक्रेताओं को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% तक की सीमा में है / Purchase Preference to MII sellers availabele upto price within L1+X%	20
मेक इन इंडिया खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Maximum Percentage of Bid quantity for MII purchase preference	50
सार्वजनिक खरीद (मेक-इन-इंडिया को प्राथमिकता) आदेश 2017 के अनुसार केवल क्लास 1/क्लास 2 के स्थानीय आपूर्तिकर्ताओं को ही भागीदारी की अनुमति है दिनांक 16.09.2020 (समय-समय पर संशोधित एवं लागू) / Allow participation only from Class 1/Class 2 local suppliers as per the Public procurement(Preference to Make-in-india) order 2017 date 16.09.2020(as amended and applicable time to time)	Yes, in compliance with the MII ORDER : DPIIT Order(as amended and applicable time to time)

एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माताओं/सेवा प्रदाता को खरीद में प्राथमिकता, यदि उनका मूल्य L1+X% / Purchase Preference to MSE OEMs/ Service Provider available upto price within L1+X%	15
सूक्ष्म और लघु उद्यम मूल उपकरण निर्माता/सेवा प्रदाता को खरीद में प्राथमिकता के लिए बिड की मात्रा का अधिकतम प्रतिशत / Percentage of Bid quantity/amount for MSE OEMs/ Service Provider Purchase preference	25

1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder shall be relaxed from the eligibility criteria of "Bidder Turnover" as defined above subject to meeting of quality and technical specifications. If the bidder itself is MSE OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover, shall upload the supporting documents to prove his eligibility for Relaxation.
3. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking Relaxation from Experience Criteria, shall upload the supporting documents to prove his eligibility for Relaxation.
4. If the bidder is a DPIIT registered Startup, the bidder shall be relaxed from the the eligibility criteria of "Bidder Turnover" as defined above subject to their meeting of quality and technical specifications. If the bidder is DPIIT Registered OEM of the offered products, it would be relaxed from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking Relaxation from Turnover shall upload the supporting documents to prove his eligibility for Relaxation.
5. The minimum average annual financial turnover of the bidder during the last three financial years, ending on 31st March of the previous financial year, should be as indicated in the bid document. The turnover of the bidder shall be validated by the system based on the financial data available on the GeM portal. The average turnover shall be calculated based on the last three financial years where data is available; in case data is available for only two of the last three financial years, the average shall be computed based on those two years. In case the date of constitution / incorporation of the bidder is less than three years old, the average turnover in respect of the completed financial years after the date of constitution / incorporation shall be taken into account for this criterion. No separate documentary evidence is required to be uploaded by the bidder for this criterion, as the system shall derive and validate the turnover figures from the data available on the GeM portal.
6. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.
7. Preference to Make In India products (For bids < 200 Crore):Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

OM_No.1_4_2021_PPD_dated_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017 and its subsequent Orders/Notifications issued by concerned Ministry .Benefits of MSE will be allowed only if seller/service provider is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.

8. **Purchase preference to Micro and Small Enterprises (MSEs):** Purchase preference will be given to MSEs having valid Udyam Certificate and whose credentials are validated online through Udyam Registration portal as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail themselves of the Purchase preference, the bidder must be the manufacturer / OEM of the offered product on GeM. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises and hence resellers offering products manufactured by some other OEM are not eligible for any purchase preference. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service, and Buyer will decide eligibility for purchase preference based on documentary evidence submitted in case of product bids, whereas in case of services the eligibility is automatically validated. If L-1 is not an MSE and MSE Seller (s) has / have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such MSE Seller shall be given opportunity to match L-1 price and contract will be awarded for 25% (selected by Buyer) percentage of total quantity. The buyers are advised to refer the OM_No.1_4_2021_PPD_dated_18.05.2023 for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017. Benefits of MSE will be allowed only if seller is validated on-line in GeM profile as well as validated and approved by Buyer after evaluation of documents submitted.
9. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

एक्सेल में अपलोड किए जाने की आवश्यकता /Excel Upload Required :

PRICE BID - 1793165504.xlsx

630 KVA CPCB IV Plus DG Sets - Net Of Buyback

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	2	98

Installation Testing And Commissioning Of DG Sets

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Additional Run Of 3.5C X 300 Sq Mm Al Cable

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Yard Lighting With 9 M Mini High-mast

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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RCC M25 In DG Plinths And Footings

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Centering And Shuttering

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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PCC Paving 150 Mm

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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Cable Trench With RCC Covers

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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RCC Hume Pipe For Cable Crossings

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Structural Steel For 12 M X 10 M Shed

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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Roofing Sheet With Gutters

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

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GI Chain-link Fencing 2.0 M High

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Brick Masonry Plinth Wall

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Rubble Masonry Retaining Wall

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Cement Sand Plaster

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Primer And Exterior Paint

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CAMC Of DG Plant - Year 3

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CAMC Of DG Plant - Year 4

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परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	98

CAMC Of DG Plant - Year 5

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
BOQ Detail Document	View File

Advisory-Please refer attached BOQ document for detailed consignee list and delivery period.

परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	98

Other Items For Completion Of Work

(क्रमशः श्रेणी 1 और श्रेणी 2 के स्थानीय आपूर्तिकर्ता के रूप में अर्हता प्राप्त करने के लिए आवश्यक/Minimum 50% and 20% Local Content required for qualifying as Class 1 and Class 2 Local Supplier respectively)

तकनीकी विशिष्टियाँ /Technical Specifications

Specification Document	View File
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परेषिती/रिपोर्टिंग अधिकारी तथा मात्रा/Consignees/Reporting Officer and Quantity

क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Reddipalli Velangini Giridhar	500090,Indian National Centre for Ocean Information Services (INCOIS), Ministry of Earth Sciences, Government of India, Ocean valley, Pragathi Nagar BO, Nizampet SO, Hyderabad - 50090 INDIA	1	98

क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें/Buyer Added Bid Specific Terms and Conditions

1. **Generic**

   OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity up to 25% of the contracted quantity during the currency of the contract at the contracted rates. The delivery period of quantity shall commence from the last date of original delivery order and in cases where option clause is exercised during the extended delivery period the additional time shall commence from the last date of extended delivery period. The additional delivery time shall be (Increased quantity ÷ Original quantity) × Original delivery period (in days), subject to minimum of 30 days. If the original delivery period is less than 30 days, the additional time equals the original delivery period. The Purchaser may extend this calculated delivery duration up to the original delivery period while exercising the option clause. Bidders must comply with these terms.

2. **Buyer Added Bid Specific ATC**

   Buyer Added text based ATC clauses

   SITC of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad

   Delivery/ Completion Period: Supply of the DG sets, ACB panels and controllers within 8 weeks, civil works within 8 weeks, and commissioning within 14 weeks, from the date of the GeM contract , followed by the 30-day reliability run (Clause 8.4).

Warranty Period: two (2) years comprehensive on-site warranty from the date of the commissio ning certificate, followed by three (3) years comprehensive on-site AMC (CAMC), as per Section 9.

Payment terms:

a) Items A1, B2 and B3: 70% shall be paid within 30 days of the supply of the items at INCOIS . Item B1 (installation, testing and commissioning): 70% shall be paid within 30 days of the completion of erection, cabling and the controller retrofit, as certified by the Engineer-in-C harge. Payment is subject to the receipt inspection report, FAT report, CPCB IV+ type-appr oval and COP certificates, the original ink-signed invoice and the warranty undertaking; the Performance Security (Sl. 7) shall be in place.

b) A further 20% of Items A1 and B1 to B3 shall be released within 30 days of successful insta llation, testing and commissioning. Release is subject to the commissioning certificate (Cla use 8.2), the handover documents (Clause 8.5) and the Engineer-in-Charge's certificate. Ite m E1: 90% shall be paid with this payment.

c) Items C1 to C12 (civil works): 90% of the value of the work done, at jointly measured quan tities, shall be paid on a pro-rata basis in not more than two (2) running account (RA) bills, t he second on completion of the civil works.

d) The balance 10% of Items A1, B1 to B3, C1 to C12 and E1 shall be released within 30 days of the completion of the two(2) year warranty period, less any recoveries under Clause 9.5.

e) Items D1 to D3 (CAMC, years 3 to 5): the rate for each year will be paid in four equal quart erly instalments, in arrears, after the completion of each quarter, within 30 days of validati ng the quarterly service report, breakdown logs and response times under Clause 9.5, less recoveries. No separate payment is made for the two-year warranty; its cost is included in I tems A1 and B1.

f) For measured items, payment will be as per actual measurement.

Net payment will be released after statutory deductions.

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3. **Buyer Added Bid Specific ATC**

Buyer uploaded ATC document Click here to view the file.

4. **Service & Support**

Dedicated /toll Free Telephone No. for Service Support : BIDDER/OEM must have Dedicated/toll Free Telephone No. for Service Support.

5. **Service & Support**

Escalation Matrix For Service Support : Bidder/OEM must provide Escalation Matrix of Telephone Numbers for Service Support.

अस्वीकरण/Disclaimer

The Additional Terms and Conditions (ATC) have been incorporated by the Buyer after approval of their Competent Authority. The Buyer ,is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any restriction arising in the bidding process due to these ATCs and including the modification of technical specifications and / or terms and conditions governing the bid.All representations / grievances pertaining to the ATC clauses shall be raised with the buyer organization directly and not with GeM.If any of the clause(s) is/are incorporated by the Buyer regarding the following, the bid & resultant contract shall be treated as null & void. Further, GeM reserves the right, at its sole discretion, to cancel the bid forthwith, without issuance of any prior notice or intimation :-

1. Publishing Custom / BOQ bids for items for which regular GeM categories are available (unless such Custom / BOQ item is bunched with the major regular product Category Item).
2. Mandating procurement of / from specific Brand / Make / Model / Manufacturer / Dealer except in case of Single Bid / Proprietary Article Certificate (PAC) Buying.
3. Inclusion of disqualification criteria related to suspension of seller / service provider, where such suspension period has already expired.
4. Mandating submission of documents (other than EMD and signed Integrity Pact - which can be submitted within 5 days of bid opening) in physical form as a pre-requisite to qualify bidders.
5. Publishing bids on GeM for procurement of works.
6. Procurement of Goods by creating a Service bid on GeM & vice-versa.
7. Seeking sample with bid or approval of samples during bid evaluation process. However, trial / sample, as the case may be, shall be permitted in cases where trial / sample are allowed as per approved and published procurement policy of the Buyers' controlling Ministry / Department / State / Public Sector Enterprises Headquarters. If there is any violation of trial / sample clause with regard to approved policy of the Buyers' Ministry / Department / State / Public Sector Enterprises Headquarters, then this is to be determined and redressed by the concerned Buyer Organisation only.
8. Seeking experience from specific organization / department / institute only or from foreign / export experience.
9. Creating bid for items from incorrect categories.
10. Reference of conditions published on any external site or reference to external documents/clauses.
11. Asking for any Tender fee / Bid Participation fee, as the case may be.
12. Buyer added ATC Clauses which are in contravention of clauses defined in bid detail section, including specifications, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by the applicable GeM GTC.
13. Any ATC clause in contravention with GeM GTC Clause 4 (xiii) (h) will be invalid. In case of multiple L1 bidders against a service bid, the buyer shall place the Contract by selection of a bidder amongst the L-1 bidders through a Random Algorithm executed by GeM system.
14. In a category based bid, adding additional items, through buyer added, additional scope of work/ additional terms and conditions/or any other document. If buyer needs more items along with the main item, the same must be added through bunching category based items or by bunching custom catalogues or bunching a BoQ with the main category based item, the same must not be done through ATC or Scope of Work.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

All GeM Sellers/Service Providers shall ensure full compliance with all applicable labour laws, including the provisions, rules, schemes and guidelines under the four Labour Codes i.e. the Code on Wages, 2019; the Industrial Relations Code, 2020; the Occupational Safety, Health and Working Conditions Code, 2020; and the Code on Social Security, 2020 as and when notified and brought into force by the Government of India.

For all provisions of the Labour Codes that are pending operationalisation through rules, schemes or notifications, the corresponding provisions of the pre-existing labour enactments (such as The Minimum Wages Act, 1948, The Payment of Wages Act, 1936, The Payment of Bonus Act, 1965, The Equal Remuneration Act, 1976, The Payment of Gratuity Act, 1972, etc. and relevant State Rules) shall continue to remain applicable.

The Seller/ Service Providers shall, therefore, be responsible for ensuring compliance under:

- **All notified and enforceable provisions of the new Labour Codes as mentioned hereinabove; and**
- **All operative provisions of the erstwhile Labour Laws until their complete substitution.**

All obligations relating to wages, social security, safety, working conditions, industrial relations etc. and any other statutory requirements shall be strictly met by the Seller/ Service Provider. Any non-compliance shall constitute a breach of the contract and shall entitle the Buyer to take appropriate action in accordance with the contract and applicable law.

This Bid is governed by the General Terms and Conditions, conditions stipulated in Bid and Service Level Agreement specific to the Service, as the case may be, as provided in the Marketplace.

However, in case of Service, if any condition specified in General Terms and Conditions is contradicted by the conditions stipulated in Service Level Agreement specific to said Service, then it will over-ride the conditions in the General Terms and Conditions.

यह बिड सामान्य शर्तों के अंतर्गत भी शासित है /This Bid is also governed by the General Terms and Conditions

जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।/In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---धन्यवाद/Thank You---

INCOIS:PUR: 59/2026 **Date: 28.10.2026**

Open Tender Enquiry (OTE)

Sub: "SITC of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad"

Director, INCOIS invites tenders in "Two Bid System" (Part-I-Techno commercial Bid & Part-II-Financial Bid) from Contractors with appropriate registration having adequate resources and setup for SITC of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC).

1.	**Name of the work**	Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad
2.	**BID Reference No.**	INCOIS: PUR: 59/2026
3.	**Earnest Money Deposit (EMD)**	Rs.5,20,000/- (Rupees five lakh twenty thousand only)
4.	**Site visit (mandatory)**	From 28.10.2026 up to 16.11.2026 (Working Days) at INCOIS, Hyderabad with prior appointment.
5.	**Last date for seeking the clarifications**	01.11.2026
6.	**Due date for Bid submission**	18.11.2026 at 15:00 Hrs
7.	**Bid opening date**	19.11.2026 at 15:00 Hrs

The offers, in the prescribed format, shall be submitted through online Government e- Marketplace at http://gem.gov.in.

Postal/ Location Address

Indian National Centre for Ocean Information Services INCOIS, Ministry of Earth Sciences, Govt. of India, Ocean Valley, Pragathi Nagar (BO), Nizampet (SO), Hyderabad 500 090, Ph.No.040-2388 6000

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1. Introduction

1.1. The Indian National Centre for Ocean Information Services (INCOIS), Hyderabad, an autonomous body under the Ministry of Earth Sciences (MoES), Govt. of India, provides ocean information and advisory services, including the tsunami early warning system, ocean state forecasts, ocean observations, ocean modeling, satellite oceanography and data services. Most of these services run round the clock from the INCOIS data centre, so standby power at the campus has to be dependable.

1.2. The main substation at INCOIS has four DG sets working on a common synchronizing panel: 2 x 320 kVA (installed in 2004) and 2 x 600 kVA (installed in 2010). The sets are 16 to 22 years old, do not meet the present CPCB IV+ emission norms, and the existing Woodward GCU 2000 controllers are obsolete. INCOIS will replace all four sets with two new CPCB IV+ sets of 630 kVA each in a new DG yard behind the main substation, reuse the existing synchronising panel and power cables, and hand over the four old sets to the successful bidder under buy-back (Rule 176 of GFR 2017).

2. Eligibility Criteria:

Only those Bidders fulfilling the following criteria should respond to the tender.

1. The Bidders must be a Company registered under the Companies Act, 1956 or the Companies Act, 2013, or a registered firm.
2. Bidders should provide an escalation matrix with full contact details, for the resolution of reported issues during the warranty and CAMC period.
3. The Bidders should have an Average annual financial turnover of Rs. 1.30 Cr (Rupees One Crore thirty Lakh only) or more during the last three financial years ending 31 March 2025. A turnover certificate from a practicing Chartered Accountant with UDIN, and the audited balance sheets for those years, shall be submitted.
4. Bidders must submit technical compliance statement for all the specifications along with the detailed data sheets/ catalogues/ Make and Model. Relevant remarks can be provided in the compliance

statement if required. Bids without technical compliance and data sheets/catalogues will not be considered.

5. The bidder or its OEM shall have satisfactorily completed similar works during the last seven (7) years ending on the day before the last date of bid submission, meeting any one of the following:
    a) one work of value Rs. 2.08 Cr or above; or
    b) two works each of value Rs. 1.30 Cr or above; or
    c) three works each of value Rs. 1.04 Cr or above.

    "Similar work" means supply, installation, testing and commissioning of diesel generating sets, with at least one set of 500 kVA or above in that work, for a Government Department, PSU, autonomous body, educational or research institution, hospital, data centre or corporate establishment. At least one of the qualifying works shall include synchronising (paralleling) of two or more DG sets. A supply-only order will not be counted.

    Completion or experience certificates from the client, quoting the order number, date, scope, value and date of completion, with the name, designation and contact details of the signatory, shall be uploaded with copies of the corresponding orders. Where the bidder relies on the experience or past performance of its OEM, the OEM shall confirm in Annexure-II that the documents are its own and that it will supervise the installation and commissioning and back the warranty and the CAMC.
6. **OEM or authorised dealer.** The bidder shall be the manufacturer of the DG set offered (the firm in whose name the CPCB IV+ type-approval certificate of the offered model stands), or its authorised dealer. A dealer shall upload the OEM Authorisation Form (Annexure-II) addressed to INCOIS for this bid, confirming OEM support for installation, commissioning and the two-year warranty and the three-year CAMC, naming its authorised service provider for Hyderabad, and availability of spares for at least ten (10) years. Where the engine maker is different from the DG set manufacturer, a letter from the engine maker confirming warranty back-up and spares support for the same periods shall also be uploaded.
7. **CPCB IV+ certification.** A valid CPCB IV+ type-approval certificate and current Conformity of Production (COP) certificate for the exact DG set model offered, of 630 kVA or higher prime rating, issued by an agency notified under the Environment (Protection) Rules, 1986. Bids without it will be rejected.
8. **Years of experience.** The bidder or its OEM (themselves or through reseller(s)) should have regularly manufactured and supplied same or similar category products (diesel generating sets) to any Central / State Government organization / PSU / Public Listed Company / reputed private organizations for three (3) financial years before the bid opening date. Copies of the relevant contracts and delivery acceptance certificates (such as CRAC) for each of those years shall be uploaded.
9. **Past performance.** The bidder or its OEM (themselves or through reseller(s)) should have supplied same or similar category products for at least 50% of the bid quantity (one DG set) in at least one of the last three financial years before the bid opening date to any Central / State Government organisation / PSU / Public Listed Company / reputed private organizations. Copies of the relevant contracts shall be uploaded.
10. **Electrical license.** A valid Class "A" or similar electrical contractor license of appropriate class, held by the bidder or by the OEM-authorized installation agency named in the bid, issued by the Licensing Board of Telangana or of any other State. Where the license is from another State, an undertaking to carry out the work through a Telangana-licensed supervisor and wiremen shall be given.
11. **Service set-up in Hyderabad.** A functional OEM-authorized service centre of the bidder or of its OEM within Hyderabad, with trained DG technicians and a dedicated / toll-free service telephone number, to meet the response times at Clause 9.5. Proof: GST registration with the Hyderabad address and any one of lease agreement, property tax receipt, Shops and Establishments registration or electricity bill; and the OEM letter naming the service centre.If the bidder or OEM does not have an existing office in Hyderabad, they must submit a written undertaking promising to set up a fully equipped local service centre within30 days of receiving the GeM contract.
12. **Paralleling controller experience.** The bidder, its OEM, or the sub-vendor for the controller retrofit named in the bid, shall have commissioned at least one multi-set paralleling (synchronising) controller system in the last seven years. Proof: client certificate or commissioning report.
13. Earnest Money Deposit (EMD) as per details given in this tender document.

14. Start ups: In order to promote make in India and startups, the prior turnover for all startups shall be relaxed subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start-up" company should enclose the certificate towards startup enterprise registration/recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry.
15. **Site visit.** Site Visit Certificate at Annexure-VI, signed by the INCOIS representative. Bids without it will be rejected. No claim on account of a site condition that could have been seen at the visit will be entertained.
16. The Bidder has to submit Eligibility Declaration - (Annexure V).
17. The Bidder has to submit Self Declaration – (Annexure-I)

3. Scope of Work:

3.1. The work is a complete job with single-point responsibility. The contractor shall provide all materials, labor, tools, cranes, test instruments and consumables needed to complete the work and hand it over in working order. The scope, priced line by line in the Bill of Quantities (Section 11), includes:

a) Joint survey with the INCOIS team within 7 days of the contract: DG yard layout, plinth positions, cable and exhaust routes, shutdown windows, and condition of the existing cables and synchronising panel. The record shall be signed by both sides.
b) Design and drawings listed at Clause 4.5, for approval by INCOIS before manufacture or fabrication.
c) Supply of two (2) Nos. CPCB IV+ DG sets of not less than 630 kVA prime rating each, with acoustic enclosures, aftertreatment system, base fuel tank, batteries and charger, as per Clause 5.1; each with an outdoor ACB panel (Clause 5.2), a load-side terminal box and one paralleling controller for the existing synchronising panel (Clause 5.3); witnessed factory acceptance test (Clause 8.1). [BoQ A1]
d) Unloading, shifting, positioning and levelling of the sets on the plinths; exhaust piping to CPCB stack height as per latest CPCB norms; shifting and reconnection of the two existing 1,000 L day tanks; careful removal, testing and relaying of the existing 3.5C x 300 sq mm aluminium power cables from the 600 kVA bays of the synchronising panel to the new sets; control and communication cabling; retrofit and programming of the paralleling controllers; mains controller and closed-transition retransfer at the mains/DG changeover point (Clause 5.3); neutral switching scheme; earthing; testing and commissioning; documents for statutory approvals; as-built drawings, manuals and training. [BoQ B1]
e) An additional run of power cable per set only where the existing runs fail the tests or the route needs it, at the quoted rate per metre, paid on the actual length laid. [BoQ B2]
f) Yard lighting with a 9 m mini high-mast covering the M&E yard (Clause 5.9). [BoQ B3]
g) Associated civil works in the new DG yard, paid on joint measurement: RCC plinths and footings, shuttering, PCC paving, cable trench, hume pipe crossings, a 12 m x 10 m open steel shed with roofing, chain-link fencing on a plinth wall, a rubble masonry retaining wall, plaster and painting (Clause 5.8). [BoQ C1 to C12]
h) Comprehensive on-site warranty for two (2) years from the date of the commissioning certificate, followed by comprehensive on-site AMC (CAMC) for three (3) years, on everything supplied and installed under this contract, through the OEM or its authorised service provider, with all spares and the consumables needed for the preventive checks (A, B and C checks) and breakdowns; DEF (AdBlue), HSD and starting batteries excluded (Section 9). [Warranty: in A1 and B1; CAMC: BoQ D1 to D3]
i) Disconnection, draining of fluids, dismantling and removal of the four (4) existing DG sets under buy-back, after the new sets complete the 30-day reliability run (Section 6), and clearing of the vacated area. [Section 6; Annexure-XI]
j) Any other item not listed above but required for the satisfactory completion of the work, to be listed and priced by the bidder. [BoQ E1]

3.2. **Not in scope:** HSD fuel, and DEF (AdBlue) beyond the first fill at Clause 5.1.23, both supplied by INCOIS for tests and operation; replacement starting batteries; statutory fees of CEIG, TGPCB and TGSPDCL (paid

by INCOIS directly); replacement of the synchronising panel busbars or of its generator incomer ACBs; and the BMS software at the INCOIS end (only the Modbus TCP/IP data at the controller is required).

3.3. Every rate quoted is for the item complete in all respects, including transport to site, loading and unloading, storage, insurance, lifting, installation, all accessories, testing, commissioning and removal of debris. Any material or work not listed but needed to hand over the system in working order shall be deemed included in the rates of the related BoQ item or in Item E1.

4. Design Basis

The data below are for design by the contractor. The approximate figures will be confirmed at the joint survey; bidders shall check them at the site visit.

4.1. Site and environment

Parameter	Value
Location	INCOIS campus, Pragathi Nagar, Hyderabad. New DG yard behind the main substation, within the M&E yard
Altitude	About 536 m above MSL
Ambient temperature	Rating reference 40 °C; sets to run at 90% of prime rating up to 45 °C without derate shutdown; radiator suitable for 50 °C
Relative humidity	Up to 95% (monsoon)
Seismic zone / basic wind speed	Zone II (IS 1893 Part 1) / 44 m/s (IS 875 Part 3)
Distance, new yard to synchronising panel	About 40 m cable route (to be measured at joint survey)

4.2. Electrical system

Parameter	Value
Supply system	415 V, 3 phase, 4 wire, 50 Hz, solidly earthed neutral
Grid supply	11 kV from TGSPDCL; two transformers at the main substation, one in service at a time
DG bus	Existing synchronising panel (Lotus Powergear Pvt. Ltd., Bangalore, installed 2014; 2,000 A busbar; 50 kA short-time rating, 1s) with four generator incomer bays (ABB DG incomer ACBs, installed 2014, rated 1,000 A). The two 600 kVA bays will feed the new sets; the two 320 kVA bays will be isolated and kept as spare
Mains / DG transfer	Mains to DG: open transition (break before make). DG to mains, on return of mains: closed transition. The DG bus is synchronised with the mains and runs in parallel with the grid only for the few seconds needed to hand over the load, so that the load sees no interruption (Clause 4.3 (g)). No export to the grid
Existing DG power cables	3 runs of 3.5C x 300 sq mm Al XLPE armoured cable per 600 kVA set, laid in 2010
Loads on DG	Whole main-substation load: data centre UPS (30 min battery), HVAC, lighting and power. Non-linear UPS load present
Rooftop solar PV	Grid-tied PV on campus, 614.40 kWp (Annexure-X)

4.3. Operating philosophy (to be programmed in the paralleling controllers)

(a) On mains failure, sensed by the mains controller (Clause 5.3.1) at the mains/DG changeover point, the mains breaker opens and both sets start. The first set to reach rated voltage and frequency closes on the dead bus; the second set synchronises and closes. Load is restored within 20 seconds of mains failure.

(b) Load-dependent start/stop: if the bus load stays below 380 kVA for 5 minutes, the set with the higher running hours is unloaded, cooled down and stopped. It restarts and synchronises when the load exceeds 440 kVA for 30 seconds, or at once on any alarm on the running set. All settings shall be adjustable at site.

(c) Lead-set rotation by running hours, so that both sets age equally.

(d) Each running set shall carry not less than 30% of its rating, or the minimum load declared by the OEM for healthy operation of the SCR system, whichever is higher.

(e) A "plant on DG" signal shall inhibit or trip the rooftop PV export while the plant is on DG supply, and each set shall have reverse-power protection.

(f) Load shedding in two stages through outputs wired to up to four non-essential feeders nominated by INCOIS, when one set trips and the bus load exceeds the capacity of the remaining set.

(g) On return of mains, after the mains has been healthy for 5 minutes (adjustable), the load shall go back to mains by closed transition, without any interruption: the mains controller synchronises the DG bus with the mains and closes the mains breaker, the sets ramp their load down, and the DG breakers open. The time in parallel shall be limited by an adjustable timer, set as approved by TGSPDCL; if the transfer is not complete when the timer runs out, the DG breakers shall trip. No power shall be exported to the grid. If the sets cannot synchronise within the set time, they shall stay on load and raise an alarm. After the transfer, the sets run the cool-down as per the OEM and stop.

(h) APFC capacitor banks shall be switched off on DG supply through an interlock.

(i) Off-load and on-load test modes from the controller, with the monthly test logged.

(j) Full automatic operation: the plant shall start, close on the bus, share load, start and stop the second set, go back to mains and stop, as at (a) to (i), without any manual action. The full sequence shall be programmed and demonstrated at the SAT (Clause 8.2).

4.4. Design values

Item	Requirement
Rating per set	Prime (PRP, ISO 8528-1) not less than 630 kVA / 504 kWe at 0.8 pf lag at site conditions (Clause 4.1), with OEM derating statement
Full-load current per set	About 876 A at 415 V for 630 kVA (higher for a higher rating). DG ACB and cable protection set to suit, within the limits at Clause 5.1.2
Fault level, two sets on bus	About 12.5 kA (to be confirmed by contractor calculation using the X"d of the offered alternator). During the closed transition the grid also feeds the bus; the combined fault level shall be checked against the rating of the existing switchgear (Clause 4.5 (ii))
Voltage drop, DG to sync panel	Not more than 2% at full load
Exhaust stack height	H = h + 0.2 x √kVA as per CPCB, i.e. h + 5.02 m for 630 kVA, where h is the roof height of the shed or of the adjoining building, as TGPCB directs. About 11.5 m above ground is expected
Exhaust back-pressure	Within the OEM limit, by calculation for the actual pipe length and bends
Clearances	Not less than 1.0 m around each enclosure and 1.5 m between enclosures, or the OEM figure if larger; no recirculation of radiator air
Fuel autonomy	Base tank not less than 6 hours at 75% load per set, plus the two existing 1,000 L day tanks
Noise	Not more than 75 dB(A) at 1 m from the enclosure surface

4.5. Design submissions (within 2 weeks of the contract)

(i) General arrangement of the DG yard: plinths, shed, fence, retaining wall, trench, day tanks, exhaust, high-mast, clearances and crane access.

(ii) Single line diagram from the DG sets to the synchronising panel, with ACB, CT, PT and protection settings and discrimination study; fault level check with the grid and both sets in parallel (closed transition), against the ratings of the existing switchgear.
(iii) Control and interconnection schematics, controller I/O list, operating logic as per Clause 4.3, including the closed-transition scheme, breaker interlocks and mains decoupling settings, and the BMS register map (Annexure-IX).
(iv) Cable sizing check for the actual route and laying method, voltage drop and short-circuit withstand.
(v) Earthing calculation as per IS 3043:2018 and the neutral switching scheme.
(vi) Exhaust layout with back-pressure and stack-height calculation.
(vii) Structural design of the plinths, footings, shed and retaining wall, signed by a qualified structural engineer, based on the soil bearing capacity checked by a trial pit.
(viii) Shutdown plan for the changeover, so that the 320 kVA sets remain available until the new sets are commissioned.

5. Technical Specifications:

The values below are the minimum required. The bidder shall state the value offered against each clause in the Guaranteed Technical Particulars (Annexure-VIII), supported by the OEM datasheet of the exact model. An entry of "complied" without the value will be treated as non-responsive.

5.1. DG set (2 Nos.) [BoQ A1]

Clause	Parameter	Requirement
A. Rating and compliance		
5.1.1	Rating	Prime power (PRP) as per ISO 8528-1, not less than 630 kVA / 504 kWe at 0.8 pf lag, 415 V, 3 phase, 4 wire, 50 Hz, 1500 rpm, at site conditions (Clause 4.1). 10% overload for 1 hour in every 12 hours as per ISO 3046-1
5.1.2	Higher rating offered	A set of higher prime rating is acceptable, provided that: (i) it fits the yard layout with the clearances at Clause 4.4; (ii) the DG ACB panel, terminal box, cables and protection settings suit the offered rating at no extra cost; (iii) the generator incomer ACBs of the existing synchronising panel are not changed, and the generator protection is set within their rating and that of the cables; (iv) the fuel consumption limit at Clause 5.1.8 applies at 75% of the offered rating; and (v) since the generator incomer ACBs of the existing synchronising panel are rated 1,000 A, the offered prime rating shall not exceed 700 kVA (full-load current about 974 A at 415 V)
5.1.3	Emission	CPCB IV+ type-approved, with valid COP, for the exact model and rating offered, under the Environment (Protection) Rules, 1986 as amended by G.S.R. 804(E) dated 03.11.2022. Compliance label on the set
5.1.4	Noise	As per CPCB norms for DG sets; in any case not more than 75 dB(A) at 1 m from the enclosure surface, measured at site
5.1.5	Standards	ISO 8528 (Parts 1 to 5), ISO 3046-1, IS/IEC 60034-1, IS 10002 where applicable
B. Engine		
5.1.6	Type	Four-stroke, liquid-cooled, turbocharged and air-to-air aftercooled, in-line 6-cylinder diesel engine with electronically controlled fuel injection and electronic governing system; engine ECU/controller with OEM communication interface for genset control and diagnostics.
5.1.7	Governing	ISO 8528-5 performance class G2 or better; isochronous; speed bias from the paralleling controller (digital through J1939 preferred)
5.1.8	Fuel consumption	To be declared at 25, 50, 75 and 100% of prime load. At 75% load, not more than 0.26 litre per kWh (electrical output, HSD to IS 1460 at 0.85 kg/L), subject to the ISO 3046-1 tolerance of +5% at FAT

Clause	Parameter	Requirement
5.1.9	After treatment	As per the type approval (DOC / SCR with DEF dosing, and DPF if part of the approval), housed within or on the enclosure. DEF tank inside the enclosure, sized for at least one full fill of the base fuel tank, with level and quality sensing. OEM to declare DEF consumption (% of fuel) and minimum continuous load for healthy SCR operation
5.1.10	Cooling	Radiator with engine-driven fan, suitable for 50 °C ambient; OEM long-life coolant
5.1.11	Air and lube	Dry-type heavy-duty air cleaner with restriction indicator; oil and coolant drain lines brought outside the enclosure with valves
5.1.12	Starting	24 V DC electric starting system comprising 24 V starting motor, OEM-recommended batteries with battery rack and interconnecting cables, and engine-driven charging alternator of minimum 45 A rating. Static float-cum-boost battery charger fed from the INCOIS auxiliary AC supply shall be provided as part of the DG package.
5.1.13	Fuel tank	Base tank inside the enclosure, not less than 6 hours at 75% load, with analogue level sender to the controller, drain valve, and connection for the external day tank
5.1.14	Engine protection	Low lube oil pressure, high coolant temperature, low coolant level, overspeed, fail to start, aftertreatment and DEF faults, emergency stop
C. Alternator		
5.1.15	Type	Brushless, self-regulated, 4 pole, 2/3 pitch stator winding (for parallel operation), insulation class H, temperature rise within class H limits at prime rating, IP23
5.1.16	Excitation	PMG, auxiliary-winding (AREP) or equivalent system able to sustain not less than 250% of rated current for 10 seconds on a 3-phase fault
5.1.17	AVR	Digital AVR, steady-state regulation ±1% or better, with droop / cross-current compensation and bias input for kVAr sharing
5.1.18	Performance	Motor starting capability not less than 1,500 skVA at 30% voltage dip; voltage THD at no load not more than 5%; X″d to be declared
5.1.19	Terminals	Load-side terminal box or busbar extension suitable for up to 4 runs of 3.5C x 300 sq mm Al cable per phase set, or connection to the DG ACB panel; full-rated neutral terminal
D. Enclosure and control		
5.1.20	Acoustic enclosure	Outdoor weatherproof, galvanised or CRCA sheet steel, pre-treated and powder coated; non-combustible mineral wool acoustic lining; lockable doors with stainless steel hinges; internal lighting; external emergency stop; lifting points; anti-vibration mounts; spill containment in the base frame
5.1.21	OEM engine control panel	For local control, engine protection and display of engine and aftertreatment data, with remote start/stop and J1939 link to the paralleling controller. Synchronising and load sharing shall be done only by the paralleling controller (Clause 5.3), so that two devices do not bias the same set
5.1.22	Telematics	OEM factory fitted product link remote monitoring, where part of the standard supply, enabled for the warranty and CAMC periods at no extra cost
5.1.23	First fill	Lube oil, coolant and 200 litres of DEF (ISO 22241) per set; tool kit; OEM manuals

5.2. Outdoor DG ACB panel (2 Nos., one per set) [BoQ A1]

Clause	Parameter	Requirement
5.2.1	Enclosure	Floor-mounted outdoor panel, IP55, 2 mm CRCA sheet steel, powder coated, with canopy; to IS/IEC 61439-2
5.2.2	Breaker	4-pole manually operated, fixed type ACB, 1250 A frame (or higher to suit a higher rating), 50 kA, microprocessor release with LSIG protection, to IS/IEC 60947-2; with shunt trip, tripped by the set emergency stop. The ACB is for isolation and protection of the outgoing cables only; synchronising is done at the generator incomer ACBs of the existing synchronising panel
5.2.3	Metering	Digital multifunction meter (V, A, kW, kVAr, kVA, pf, Hz, kWh, THD) with Modbus; metering CTs of class 1.0; ON, OFF and TRIP indicating lamps
5.2.4	Cabling	Cable alley and gland plate for the alternator connection and for up to 4 outgoing runs of 3.5C x 300 sq mm Al; earth bus

5.3. Paralleling controllers and synchronising panel retrofit [BoQ A1 supply, B1 retrofit]

Clause	Parameter	Requirement
5.3.1	Controllers	Two (2) Nos. microprocessor genset paralleling controllers, one per new set, replacing the Woodward GCU 2000 units of the 600 kVA bays. Woodward easYgen-3500XT series, DEIF AGC-4 Mk II, ComAp InteliGen 500, Deep Sea DSE8610 MKII or equivalent. One (1) mains controller of the same make and series, at the mains/DG changeover point, to control the mains breaker and the closed-transition retransfer (Clause 4.3 (g))
5.3.2	Functions	Dead-bus arbitration, automatic synchronising, isochronous kW and kVAr sharing (within ±5% of rating), soft loading and unloading, load-dependent start/stop, lead-set rotation, two-stage load shedding, closed-transition retransfer to mains with parallel-time limit and export block, fully automatic operation, test modes, as per Clause 4.3
5.3.3	Protection	ANSI 25, 27/59, 81O/U, 32R, 40, 46, 50/51, 51N, plus engine shutdowns through J1939 and hard-wired inputs. At the mains breaker, for the closed transition: 25 sync check, mains decoupling (ROCOF and vector shift), 27/59, 81O/U and reverse power (no export), with settings approved by TGSPDCL
5.3.4	HMI and records	Front display at the panel; event and alarm log of not less than 300 time-stamped events; password levels; configuration files and backups handed over
5.3.5	Communication	Modbus TCP/IP (read-only) to the INCOIS BMS (Siemens) with the points at Annexure-IX; RS485 / Ethernet as needed between controllers
5.3.6	Solar PV inhibit	Potential-free "plant on DG" contact wired to the PV inverter or PV ACB control, so that PV export is inhibited or tripped while the plant is on DG supply

Clause	Parameter	Requirement
5.3.7	Panel works	Cut-outs, mounting, CT/PT re-wiring, new terminals, relays, MCBs and ferrules as needed; APFC inhibit interlock for the two (2) existing APFC panels of 315 kVAr each; load-shed outputs to nominated feeders; control wiring to the existing ABB generator incomer ACBs of the 600 kVA bays, with any accessory (auxiliary contacts, closing or shunt-trip coil, motor operator) found missing or defective; control wiring to the mains and DG breakers at the mains/DG changeover point (motor operator, closing and shunt-trip coils added where not available), with the existing interlock changed so that both breakers can be closed together only through the sync check of the mains controller; updated panel drawings. The 320 kVA bays shall be isolated, locked open and labelled "Spare"
5.3.8	Responsibility	The DG set supplier is responsible for the complete system: sets, OEM panels, paralleling controllers and their interface. One combined test of synchronising, load sharing, load-dependent start/stop and closed-transition retransfer will be witnessed (Clause 8.2)

5.4. Neutral switching scheme [BoQ B1]

The neutral of a set that is not on the bus shall be isolated, through 4-pole switching at the generator incomer or a neutral contactor interlocked with the incomer ACB, to prevent circulating third-harmonic current between paralleled sets. The DG bus shall have a single neutral-earth bond as per IS 3043:2018. The contractor shall submit the scheme with the earthing calculation. The scheme shall also cover the short parallel with the grid during the closed transition.

5.5. Power and control cabling [BoQ B1, B2]

a) The existing 3 runs of 3.5C x 300 sq mm Al XLPE armoured cable of each 600 kVA set shall be disconnected, taken out carefully and tested: insulation resistance at 1,000 V DC (not less than 100 MΩ between phases and to earth), sheath and armour continuity, and condition of lugs. Runs that pass shall be relaid to the new sets. Runs that fail shall be replaced by new cable under BoQ Item B2.

b) No straight-through joint is permitted on the 300 sq mm runs. If the route to the new yard is longer than the existing lengths, new runs shall be laid end to end under Item B2.

c) New power cable (Item B2): 3.5C x 300 sq mm aluminium, XLPE insulated, armoured, 1.1 kV grade, to IS 7098 (Part 1), of the same size and similar length as the retained runs, so that the parallel runs share current equally. A 4th run per set is required only where part of the route is buried with cables touching; this will be decided at the joint survey.

d) Laying on tray or in trench with spacing of one cable diameter, as per IS 1255; route markers and cable tags every 10 m.

e) Terminations with double-compression brass glands, crimped aluminium lugs (bi-metallic at copper bars), heat-shrink sleeves, and armour earthed at both ends.

f) Control cables: copper, armoured, 1.1 kV, to IS 1554 (Part 1) / IS 7098 (Part 1), 2.5 sq mm minimum for CT and control circuits (4 sq mm where the CT burden needs it); shielded twisted pair for CAN / J1939; outdoor-grade armoured Cat 6 or fibre for Ethernet. Control cables shall run on a separate tray tier or 300 mm away from power cables.

g) Cable tray: 300 mm hot-dip galvanised perforated tray, 2 mm thick, with covers on outdoor runs.

5.6. Earthing [BoQ B1]

a. As per IS 3043:2018 and the CEA (Measures relating to Safety and Electric Supply) Regulations, 2023.

b. For each set: two body earth stations with 40 mm dia GI pipe electrodes, and two neutral earth stations with 600 x 600 x 3 mm copper plate electrodes, each in a masonry chamber with cover, watering funnel and back-fill compound.

c. Neutral earth conductors of 50 x 6 mm copper strip and body earth conductors of 75 x 6 mm GI strip, or the sizes given by the fault-duty calculation if larger; GI bonding strip for the shed, fence, day tanks, trays and panels.

d. Resistance of each station not more than 2 Ω and of the combined system not more than 1 Ω. The earth grid shall be linked to the existing substation earth grid.

5.7. Exhaust and fuel system [BoQ B1]

a. Exhaust piping from the OEM silencer / after treatment outlet to the stack height at Clause 4.4: MS heavy-class pipe of the size given by the back-pressure calculation, stainless steel bellows, rain cap, 75 mm mineral wool lagging with aluminium cladding, and independent painted steel supports on their own foundations, so that no load comes on the engine outlet.
b. A sampling port with cap at the position prescribed by CPCB, and safe access for stack monitoring.
c. Roof penetration through the shed with sleeve, flashing and rain collar.
d. The two existing 1,000 L day tanks shall be shifted, cleaned, pressure-tested and installed on MS stands within a dyke of 110% of the larger tank, with MS heavy-class pipe (IS 1239), ball valves, strainers, fire-safe shut-off valve, OEM flexible hoses, level gauge and low-level alarm to the controller.

5.8. Associated works [BoQ C1 to C12, paid on joint measurement]

a. **C1 RCC M25** (IS 456) in DG plinths and shed column footings, with Fe 500D TMT reinforcement (IS 1786), on a PCC 1:4:8 bed, designed for the weight and running loads of the offered set and for the shed reactions. Plinth plan size: base frame plus 300 mm all round; top 150 mm above the finished yard level; anchor bolts as per the OEM. The rate includes excavation, PCC bed, reinforcement, anchor bolts, curing and a trial pit to confirm the soil bearing capacity. Shuttering is paid under C2.
b. **C2 Centering and shuttering** of steel or plywood, true to line and level, with props and staging, removed after the specified period. Measured on the area in contact with concrete.
c. **C3 PCC 1:3:6, 150 mm thick**, over a compacted base, with trowel finish and a fall of 1 in 100 towards the drain.
d. **C4 Cable trench**, about 600 x 600 mm internal, with brick or RCC walls, precast RCC covers (M25, with lifting hooks), sloped and drained.
e. **C5 RCC NP3 hume pipes** (IS 458), not less than 150 mm internal dia, one cable per pipe, with draw wire and sealed ends, for road and service crossings.
f. **C6 Structural steel** for the 12 m x 10 m open shed (IS 2062 E250), designed to IS 800:2007, IS 875 (Parts 1 to 3) and IS 1893, hot-dipgalvanised to IS 4759, erected on the C1 footings with anchor bolts. Clear height under the truss not less than 5.5 m or the enclosure height plus 1.2 m, whichever is more. The rate includes structural design signed by a qualified structural engineer and shop drawings. Paid on the weight of the approved members at standard sectional weights (IS 808).
g. **C7 Roofing** of 0.50 mm TCT pre-coated galvalume or GI profile sheet with self-drilling screws and EPDM washers, including ridge and verge flashing, gutters and PVC downpipes led to the nearest drain. Measured on the roof area.
h. **C8 GI chain-link fencing**, 2.0 m high, GI chain-link mesh of 50 x 50 mm with wire not thinner than 3.15 mm, on MS angle posts 50 x 50 x 6 mm at not more than 3 m centres with struts at corners and ends, three tension wires, posts set in M15 concrete footings; all steel galvanised or painted.
i. **C9 Plinth wall**, 230 mm thick brick masonry in CM 1:6 on a PCC 1:4:8 bed, 300 mm above ground along the fence line, top finished to receive the fence.
j. **C10 Retaining wall** in coursed rubble stone masonry in CM 1:6 with through stones, 75 mm PVC weep holes at 1.5 m centres with filter media behind, and PCC 1:2:4 coping, as per the approved drawing.
k. **C11 Plaster**, 12 mm cement-sand plaster in CM 1:6 (15 mm on rough faces), cured.
l. **C12 Painting**: one coat of primer and two coats of exterior acrylic emulsion on plaster, or synthetic enamel on steel, in the approved shade.
m. Making good of roads, kerbs and landscaping disturbed by the work is included in the rates.

5.9. Yard lighting [BoQ B3]

A 9 m galvanised octagonal mini high-mast on an RCC foundation with LED flood lights (IP66), giving an average of not less than 50 lux over the M&E yard and 100 lux at the DG panel fronts and enclosure doors; photocell and timer; one self-contained emergency light; IP65 auxiliary distribution board with RCCB fed from the feeder nominated by INCOIS; two 16 A industrial sockets; cabling, earthing and CEA danger notice boards.

6. Removal and Buy-back of the Existing DG Sets [Annexure-XI]

a) Four (4) DG sets, 2 x 600 kVA (2010) and 2 x 320 kVA (2004), with their enclosures, base frames, radiators, silencers, exhaust piping and control panels, are offered for buy-back on "as is where

is" basis. Details, including recorded running hours, are at Annexure-VII. INCOIS gives no warranty on their condition; bidders shall inspect them at the site visit.

b) The bidder shall quote the buy-back value of the four sets, excluding GST, with the value of each set, in the price break-up at Annexure-XI, to be uploaded in the Financial Document column of the GeM bid. The amount quoted for Item A1 on GeM shall be net of this buy-back value (Annexure-XI, row D).

c) As provided in Rule 176 of GFR 2017, INCOIS may decide to trade or not to trade the old sets. If the buy-back value of the L1 bidder is below the reserve value fixed by INCOIS before the opening of financial bids, INCOIS may award the work without buy-back and dispose of the old sets separately.

d) No old set shall be dismantled until the new sets have completed the 30-day reliability run (Clause 8.4). Until then the 320 kVA sets stay in service as standby.

e) The contractor shall deposit the buy-back value with GST as applicable with INCOIS (payment outside GeM) before lifting the old sets. INCOIS will raise the tax invoice for the sale. If the amount is not deposited by the time the payment at Section 12, Sl. 5 (b) is processed, INCOIS will recover it from that payment or from the amount retained under Section 12, Sl. 5 (d).

f) Disconnection, draining, dismantling, lifting and removal are at the contractor's cost. Lube oil, coolant and fuel shall be drained into closed containers and handed to a TGPCB-authorised recycler under the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; old batteries under the Battery Waste Management Rules, 2022. Copies of the disposal documents shall be submitted.

g) The old sets shall be removed from the campus within 15 days of handing over, under a gate pass issued by INCOIS, and the vacated area shall be cleared of debris.

7. Suggested Makes:

The DG set may be of any make that holds a valid CPCB IV+ type-approval certificate for the rating offered and meets Section 5 in full. For other materials, the makes below show the grade required. An equivalent may be offered with its datasheet, but not a lower grade; equivalence will be decided by INCOIS. The list does not restrict competition.

Item	Suggested makes
DG set / diesel engine	Cummins · Kirloskar Oil Engines · Caterpillar · Perkins · Volvo Penta · Baudouin, or any other make meeting Clause 5.1 and holding a valid CPCB IV+ type-approval certificate for the rating offered
Alternator	Stamford · Leroy-Somer · Kirloskar Electric · Mecc Alte · Crompton Greaves, or equivalent meeting Clauses 5.1.15 to 5.1.17
Paralleling controller	Woodward · DEIF · ComAp · Deep Sea, or equivalent meeting Clause 5.3
ACB	Schneider Electric · ABB · Siemens · Lauritz Knudsen (L&T) · Legrand
Multifunction meter	Schneider Electric · Secure · Conzerv · Rishabh · Siemens
LT power and control cables	Polycab · Havells · KEI · Finolex · RR Kabel, ISI marked
Cable glands and lugs	Comet · Dowells · Jainson
Cable tray	Indiana · Profab · Slotco, or any make to the specification
Cement / TMT reinforcement	UltraTech · ACC · Ambuja · Ramco / SAIL · JSW · Tata Steel · RINL, ISI marked
Structural steel / roofing sheet	SAIL · JSW · Tata Steel · RINL / Tata BlueScope · JSW
Chain-link mesh	Tata Wiron · JSW · or ISI-marked equivalent
Hume pipes	Any BIS-licensed maker to IS 458
LED flood lights	Philips (Signify) · Havells · Crompton · Wipro
Paint	Asian Paints · Berger · Nerolac · Dulux

8. Inspection, Testing, Commissioning and Handover:

8.1. Factory acceptance test (FAT)

Each set shall be tested at the OEM works in the presence of INCOIS officers, with 10 days' notice. The cost of the test is included in Item A1; travel of the INCOIS officers is borne by INCOIS. The FAT shall cover:

(a) Visual and dimensional check against the approved drawings and the GTP; make and serial numbers of engine, alternator and aftertreatment.
(b) Insulation resistance and high-voltage tests of the alternator as per IS/IEC 60034-1.
(c) Load test on resistive load bank at 25, 50, 75 and 100% load (30 minutes each) and 110% for 1 hour; readings every 15 minutes.
(d) Fuel consumption at 50, 75 and 100% load, compared with the declared values (Clause 5.1.8).
(e) Steady-state voltage and frequency regulation, and transient response on load acceptance and rejection, against the declared ISO 8528-5 class.
(f) Simulation of all engine and alternator protections; noise at 1 m.

8.2. Site acceptance tests (SAT)

(a) Receipt inspection at site against the FAT report and packing list.
(b) Pre-commissioning: IR of every power and control cable, continuity, phase sequence, CT polarity, torque check of all terminations, earth resistance of each station.
(c) Each set run on the building load; full-load capability is taken from the FAT.
(d) Both sets together: dead-bus closing, synchronising, kW and kVAr sharing within ±5% of rating, soft loading, load-dependent start/stop at the set points, lead-set rotation, load shedding, PV inhibit and reverse-power trip.
(e) Mains-failure test on the building load: load restored within 20 seconds; return to mains by closed transition with no interruption (three transfers, with the time in parallel recorded); trip on the parallel timer and on reverse power; emergency stops; APFC interlock.
(f) Point-to-point check of every BMS register at Annexure-IX.
(g) Noise at 1 m from the enclosure (not more than 75 dB(A)).
(h) Full automatic sequence, from mains failure to the sets stopping after the return to mains, three times without any manual action. The controller configuration is then frozen and a copy handed over.

INCOIS will supply HSD for the site tests and will arrange stack emission monitoring through its TGPCB-recognised laboratory; the contractor shall provide the sampling port and assist. The contractor shall bring instruments with valid calibration certificates. A commissioning certificate will be issued when all SAT items are passed.

8.3. Statutory approvals

The contractor shall prepare and hand over to INCOIS all the drawings, test reports and forms needed for the application to the Chief Electrical Inspector to Government, Telangana (CEIG), as applicable under the CEA (Measures relating to Safety and Electric Supply) Regulations, 2023, and for the amendment of the consent of the Telangana Pollution Control Board (TGPCB). INCOIS will submit the applications and follow them up. The contractor shall not be required to obtain any approval, but shall be present and give all support whenever the CEIG / CEA inspects the installation, and shall rectify any observation at no extra cost. INCOIS will pay the statutory fees directly. The contractor shall also prepare the scheme, relay settings and test reports needed for the approval of TGSPDCL if any for the momentary parallel operation of the DG sets with the grid (closed transition). Until that approval is received, the retransfer to mains shall be set as open transition (break before make). If the approval comes after the SAT, the closed-transition tests at Clause 8.2 (e) and (h) shall be done within 30 days of the approval, at no extra cost.

8.4. 30-day reliability run

After commissioning, the plant shall run in normal service for 30 days, with the weekly on-load test and every mains failure logged. Every auto-start shall succeed and no failure attributable to the contractor shall occur; after any such failure the 30 days start again. The old sets are released for removal only after this run.

8.5. Handover documents and training (no separate payment)

As-built drawings (GA, SLD, schematics, cable schedule, earthing layout, civil and structural drawings) in AutoCAD and PDF; FAT and SAT reports; CPCB IV+ certificates; O&M manuals (two hard copies and a soft copy); recommended spares list with prices; controller configuration files and passwords; warranty certificate. Two days of training for INCOIS operators and one day for engineers, at site.

9. Warranty (2 Years) and Comprehensive AMC (3 Years) [Warranty in A1, B1; CAMC: BoQ D1 to D3]

9.1. Period and price

Warranty: two (2) years from the date of the commissioning certificate. CAMC: the next three (3) years (years 3, 4 and 5). Both are comprehensive and on-site, with the same coverage (Clause 9.2). The cost of the warranty, including the consumables for the preventive checks and the quarterly visits, shall be included in the rates of Items A1 and B1; bidders shall quote accordingly. The CAMC is priced year-wise in Items D1 (year 3), D2 (year 4) and D3 (year 5) and paid quarterly in arrears (Section 12, Sl. 5 (e)). The OEM's standard warranty on the goods runs at the same time and does not reduce the contractor's obligations under this Section.

9.2. Coverage

The warranty and the CAMC cover the complete DG sets (engine, alternator, aftertreatment, sensors, ECU, radiator, enclosure, base tank, mounts and charger), the ACB panels, the paralleling and mains controllers, the retrofit work in the synchronising panel and at the mains/DG changeover point, the cables and terminations laid, the exhaust and fuel system, the earthing, the yard lighting, and defects of workmanship in the civil works. It includes, at no extra cost:

(a) all spares and parts, with replacement of any rejected or defective part by a genuine OEM part;
(b) all consumables needed for the preventive checks (A, B and C checks as per the OEM schedule) and for breakdowns: lube oil; oil, fuel, air and DEF filters, coolant, belts, clamps, hoses and gaskets. Bidders shall price these in their rates;
(c) checking the DEF in the tanks at every visit (quality and shelf life) and advising INCOIS when it needs renewal; DEF is supplied by INCOIS;
(d) unlimited breakdown calls, labor, transport and travel;
(e) preventive checks at the intervals in the OEM manual (by running hours or by calendar, whichever is earlier), and in any case one preventive visit every quarter (8 in the warranty and 12 in the CAMC), on a date agreed with the Engineer-in-Charge, covering the OEM check list, an on-load run of each set, and a check of the controllers, ACB panels, auto start/stop and closed-transition sequence;
(f) firmware updates of the ECU and controllers, and any modification issued by the OEM;
(g) upkeep of the CPCB IV+ compliance of the sets for the whole period, including the aftertreatment system.

Excluded: DEF (AdBlue), HSD fuel, replacement of starting batteries (except under the battery maker's warranty for the batteries supplied with the sets), and damage due to fire, flood, theft or misuse by INCOIS.

9.3. Service only through the OEM or its authorised service provider

(a) Preventive checks, breakdown calls and repairs during the warranty and the CAMC shall be done only by the OEM or by its authorised service provider named in the OEM Authorisation (Annexure-II). This work shall not be sub-let to any other agency.
(b) The OEM shall undertake (Annexure-II) that, if the authorisation of the dealer or service provider ends, or it fails to perform, the OEM will carry out the balance warranty and CAMC directly or through another authorised service provider, at the contract rates.
(c) Only genuine OEM spares and OEM-specified consumables shall be used. Part numbers and quantities shall be shown in the service report, and the parts removed shall be shown to the Engineer-in-Charge before they are taken away.
(d) Each visit shall be logged in the OEM service system (job card number), and the engine and after treatment fault codes shall be read with the OEM diagnostic tool and attached to the service report.
(e) A change of the service provider during the contract needs a fresh OEM letter and the prior approval of INCOIS.

9.4. Service records

Each visit shall end with a service report on the OEM format, with the job card number and the fault-code record (Clause 9.3), signed by the Engineer-in-Charge. A yearly report shall give running hours, starts, load factor, DEF use, faults and parts replaced for each set.

9.5. Response, restoration and penalties (SLA)

(a) Attendance at site within 4 hours of a fault reported by phone or e-mail, at any time on any day.
(b) Restoration within 24 hours. Fast-moving spares (filters, belts, sensors, fuses, relays) shall be stocked in Hyderabad.

(c) For delay in restoration beyond 24 hours, Rs. 5,000/- per set per day will be recovered. Beyond 72 hours, INCOIS may also hire a DG set of matching rating at the contractor's risk and cost.

(d) For a missed preventive check or quarterly visit, Rs. 10,000/- per visit will be recovered.

(e) Recoveries will be made from the next CAMC payment, the amount retained under Section 12, Sl. 5 (d), or any other payment due, or from the Performance Security. If the recoveries in a year exceed 10% of the CAMC value of that year (for the warranty years, the value of Item D1), INCOIS may treat it as a material breach under Section 12, Sl. 17.

9.6. End of warranty and of CAMC

A joint inspection will be held in the last month of the warranty and again in the last month of the CAMC. All defects found shall be set right, and the sets shall be handed back with the service history, in running condition, with the after treatment healthy.

10.Site Conditions, Safety and Programme

(a) The main substation feeds the data centre and other services that run round the clock. Work on the synchronising panel and on live cables shall be done only in shutdown windows approved by the Engineer-in-Charge, which may be at night or on holidays, with no extra payment.

(b) The new sets shall be connected one at a time to the 600 kVA bays. The 320 kVA sets shall remain available as standby throughout, until the 30-day reliability run is complete.

(c) Work permits, lock-out and tag-out for all electrical work; hot-work permit for welding and cutting; lifting plan and certified crane and slings for unloading and positioning; shoring for excavation near existing services.

(d) All personnel shall be cleared by INCOIS Security and carry photo identity. PPE is mandatory.

(e) The contractor shall hold transit-cum-storage-cum-erection all-risk insurance until handover, Employees' Compensation insurance and third-party insurance for the contract period.

Programme (from the date of the GeM contract)

Stage	Activity	Target
1	Joint survey; design submissions (Clause 4.5)	Week 2
2	Approval of drawings and GTP by INCOIS	Week 3
3	Civil works: plinths, footings, shed, retaining wall, fence, trench, paving (no shutdown needed)	Weeks 3 to 8
4	Manufacture, FAT and delivery of both sets with ACB panels and controllers	Week 8
5	Erection, exhaust, fuel, earthing, cabling; controller retrofit in shutdown windows; yard lighting	Weeks 9 to 11
6	SAT, commissioning certificate, support at the CEIG inspection	Weeks 12 to 14
7	30-day reliability run; removal of old sets	Weeks 15 to 20

11. Contents of Bid:-

The quote should be submitted in two bid format. (i) Technical Bid and (ii)Commercial Bid

(i) Technical Bid: Technical bid should contain the information ONLY without which the offer will not be considered further.

NOTE:

- The documentary proof attached should be legible and relevant
- Offers without (i) the copy of relevant POs without the client certificate (ii) Client Certificate without Signature, Date and Contact details of the client-side signatory (iii) duly filled-in Technical Compliance Statement (iv) duly filled-in un-priced bid, will not be considered for further evaluation.
- Part/conditional/incomplete quotations will not be accepted.

Table-1: Technical Compliance Statement

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviations, if any
1.	Name of the Bidder			
2.	The bidder is a 1) Company registered under the Companies Act, 1956 / 2013 / 2) Proprietary /3) OEM/(s) /4) System Integrator/5) Others			
3.	Bidder Address and contact details like E Mail , Phone etc.,			
4.	MSE / NSIC certificate details if any Registration/ License from the Government: GST Registration No. PAN Number			
5.	Bank details of the firm:			
6.	Single Point of Contact : Name E-Mail Ph No.			
7.	Bidders must submit technical compliance statement for all the specifications along with the detailed data sheets/ catalogues/ Make and Model. Relevant remarks can be provided in the compliance statement if required. Bids without technical compliance and data sheets/catalogues will not be considered.			
8.	Bidders should provide an escalation matrix with full contact details, for the resolution of reported issues during the warranty and CAMC period			
9.	The bidder should have an average annual financial turnover of Rs. 1.30 Cr (Rupees one crore thirty lakh only) or more during the last three financial years ending 31 March 2026, with a CA certificate (UDIN) and audited balance sheets.			
10.	The bidder or its OEM shall have satisfactorily completed similar works during the last seven (7) years ending on the day before the last date of bid submission, meeting any one of the following: a) one work of value Rs. 2.08 Cr or above; or b) two works each of value Rs. 1.30 Cr or above; or c) three works each of value Rs. 1.04 Cr or above. "Similar work" means supply, installation, testing and commissioning of diesel generating sets, with at least one set of 500 kVA or above in that work, for a Government Department, PSU, autonomous body, educational or research institution, hospital, data centre or corporate establishment. At least one of the qualifying works shall include synchronising (paralleling) of two or more DG sets. A supply-only			

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviations, if any
	order will not be counted. Completion or experience certificates from the client, quoting the order number, date, scope, value and date of completion, with the name, designation and contact details of the signatory, shall be uploaded with copies of the corresponding orders. Where the bidder relies on the experience or past performance of its OEM, the OEM shall confirm in Annexure-II that the documents are its own and that it will supervise the installation and commissioning and back the warranty and the CAMC.			
11.	**OEM or authorized dealer.** The bidder shall be the manufacturer of the DG set offered (the firm in whose name the CPCB IV+ type-approval certificate of the offered model stands), or its authorized dealer. A dealer shall upload the OEM Authorization Form (Annexure-II) addressed to INCOIS for this bid, confirming OEM support for installation, commissioning and the two-year warranty and the three-year CAMC, naming its authorized service provider for Hyderabad, and availability of spares for at least ten (10) years. Where the engine maker is different from the DG set manufacturer, a letter from the engine maker confirming warranty back-up and spares support for the same periods shall also be uploaded.			
12.	**CPCB IV+ certification.** A valid CPCB IV+ type-approval certificate and current Conformity of Production (COP) certificate for the exact DG set model offered, of 630 kVA or higher prime rating, issued by an agency notified under the Environment (Protection) Rules, 1986. Bids without it will be rejected.			
13.	**Years of experience.** The bidder or its OEM {themselves or through reseller(s)} should have regularly manufactured and supplied same or similar category products (diesel generating sets) to any Central / State Government organisation / PSU / Public Listed Company / reputed private organizations for three (3) financial years before the bid opening date. Copies of the relevant contracts and delivery acceptance certificates (such as CRAC) for each of those years shall be uploaded.			
14.	**Past performance.** The bidder or its OEM {themselves or through reseller(s)} should have supplied same or similar category products for at least 50% of the bid quantity (one DG set) in at least one of the last three financial years before the bid opening date to any Central / State Government organisation / PSU / Public Listed Company / reputed private organizations. Copies of the relevant contracts shall			

S No	Description	Compliance status Yes / No	Page number against the Proof attached.	Remarks/ Deviations, if any
	be uploaded.			
15.	**Electrical license.** A valid Class "A" or similar electrical contractor license of appropriate class, held by the bidder or by the OEM-authorized installation agency named in the bid, issued by the Licensing Board of Telangana or of any other State. Where the license is from another State, an undertaking to carry out the work through a Telangana-licensed supervisor and wiremen shall be given.			
16.	**Service set-up in Hyderabad.** A functional OEM-authorised service centre of the bidder or of its OEM within Hyderabad, with trained DG technicians and a dedicated / toll-free service telephone number, to meet the response times at Clause 9.5. Proof: GST registration with the Hyderabad address and any one of lease agreement, property tax receipt, Shops and Establishments registration or electricity bill; and the OEM letter naming the service centre. If the bidder or OEM does not have an existing office in Hyderabad, they must submit a written undertaking promising to set up a fully equipped local service centre within30 days of receiving the GeM contract.			
17.	**Paralleling controller experience.** The bidder, its OEM, or the sub-vendor for the controller retrofit named in the bid, shall have commissioned at least one multi-set paralleling (synchronizing) controller system in the last seven years. Proof: client certificate or commissioning report.			
18.	Earnest Money Deposit (EMD) as per details given in this tender document.			
19.	Start ups: In order to promote make in India and start ups, the prior turnover for all start ups shall be relaxed subject to their meeting of quality, technical specifications and tender conditions as per tender. The bidder who intends to participate as "start-up" company should enclose the certificate towards start up enterprise registration/recognition issued by Department for Promotion of Industry and Internal Trade (DPIIT), Ministry of Commerce & Industry.			
20.	**Site visit.** Site Visit Certificate at Annexure-VI, signed by the INCOIS representative. Bids without it will be rejected. No claim on account of a site condition that could have been seen at the visit will be entertained.			
21.	The Bidder has to submit Eligibility Declaration - (Annexure V).			
22.	The Bidder has to submit Self Declaration – (Annexure-I)			

Table-2 Un-Priced Bid

Item	Description	Unit	Qty	Quoted (Yes/No)
PART A: SUPPLY				
A1	Supply of DG set, prime rating not less than 630 kVA / 504 kWe at 0.8 pf (higher ratings acceptable), CPCB IV+ type-approved, complete as per Clause 5.1 with outdoor ACB panel (Clause 5.2), one paralleling controller for the existing synchronising panel (Clause 5.3), load-side terminal box, batteries and charger, initial 200 litres of DEF per set, factory acceptance test, two-year comprehensive warranty with the consumables for the preventive checks and quarterly visits (Section 9), delivered at INCOIS under Buy-back of the four (4) existing DG sets (2 x 600 kVA, 2010 and 2 x 320 kVA, 2004) on 'as is where is' basis as per Section 6 and Annexure-VII. The amount for A1 shall be quoted net of the buy-back value (Annexure-XI).	Nos	2	
PART B: INSTALLATION, TESTING AND COMMISSIONING WITH ASSOCIATED ELECTRICAL WORKS				
B1	Installation, testing and commissioning of both DG sets with all associated electrical and mechanical works as per Sections 3 to 5 and 8: unloading and positioning, exhaust to CPCB stack height, day tanks and fuel piping, removal-testing-relaying of the existing power cables with terminations, control and communication cabling, cable tray, retrofit and programming of the paralleling controllers, mains controller and closed-transition retransfer at the mains/DG changeover point, neutral switching scheme, earthing, testing, CEA documentation, as-built drawings, manuals and training	Job	1	
B2	Additional run of 3.5C x 300 sq mm Al XLPE armoured 1.1 kV cable (IS 7098 Part 1), supplied, laid and terminated, only where the existing runs fail the tests or the route needs it (unit rate per metre only; quantity as required at site, paid on the actual length laid)	Rmt	1	
B3	Yard lighting with 9 m galvanised mini high-mast and LED flood lights, auxiliary DB, emergency light and sockets, as per Clause 5.9	Job	1	
PART C: ASSOCIATED WORKS as per Clause 5.8 (quantities tentative; paid on actual joint measurement)				
C1	RCC M25 in DG plinths and shed column footings, including excavation, PCC bed, reinforcement, anchor bolts and trial pit (excluding shuttering)	Cum	6	
C2	Centering and shuttering for RCC work	Sqm	25	
C3	PCC 1:3:6, 150 mm thick, with trowel finish over compacted base	Sqm	10	
C4	Cable trench about 600 x 600 mm with removable precast RCC covers	Rmt	20	
C5	RCC NP3 hume pipe for cable crossings, laid and sealed	Rmt	20	
C6	Structural steel for the 12 m x 10 m open shed, hot-dipgalvanised, including structural design and shop drawings	Kg	5000	
C7	Pre-coated galvanised profile roofing sheets including ridge and verge flashing, gutters and downpipes (measured on roof area)	Sqm	120	
C8	GI chain-link fencing 2.0 m high with posts, struts, tension wires and foundations	Rmt	150	
C9	Brick masonry plinth wall in CM 1:6 along the fence line	Cum	25	
C10	Coursed rubble stone masonry retaining wall in cement mortar, with weep holes and coping	Cum	10	

Item	Description	Unit	Qty	Quoted (Yes/No)
C11	Cement-sand plaster	Sqm	10	
C12	Primer and exterior paint	Sqm	10	
PART D: COMPREHENSIVE ON-SITE AMC (CAMC) FOR YEARS 3 TO 5, AFTER THE TWO-YEAR WARRANTY (paid quarterly)				
D1	CAMC, year 3 (first year after the two-year warranty), for both DG sets and all works under this contract, through the OEM or its authorised service provider, with all spares, the consumables for the preventive checks and breakdowns, and quarterly visits; excluding DEF (AdBlue), HSD and batteries; as per Section 9	Year	1	
D2	CAMC, year 4, as for Item D1	Year	1	
D3	CAMC, year 5, as for Item D1	Year	1	
PART E: OTHER ITEMS				
E1	Any other item not listed above but required for the satisfactory completion of the work as per Sections 3 to 10 (materials, accessories, minor works and services not separately specified in Items A1 to D3). The bidder shall list such items, with quantity and amount, in the price break-up uploaded with the financial bid. No additional item of this kind will be paid for separately (Section 12, Sl. 9).	Job	1	

Note: a) In the financial bid the bidder shall give, for each item, the rate excluding GST, the GST rate and the amount; for D1 to D3 the rate for the year. The quantities of Items B2 and C1 to C12 are tentative; these items are paid on the actual quantities executed, at the quoted rates (Section 12, Sl. 9). Item E1 is a lump sum for any item not listed but required for the satisfactory completion of the work; bidders shall quote for it, and no additional item of this kind will be paid for separately. INCOIS may seek justification of the E1 amount and may treat an amount out of proportion to the listed items as a loaded or unbalanced bid. The amount for A1 shall be net of the buy-back value. The price break-up for the buy-back (Annexure-XI) shall be uploaded in the Financial Document column provided by GeM along with the price bid. b) Evaluation: L1 will be decided on the total amount of Items A1 to E1, including GST, as quoted on GeM.

12. General terms and Conditions:-

Point No.	Details
1.	*** Acceptance of the contract:** the successful bidder shall accept the GeM contract on the GeM portal within the time allowed under the GeM GTC.
2.	Validity Period: Bids/Offers shall have the validity period of 120 days from the tender closing date.
3.	**Delivery/ Completion Period**: Supply of the DG sets, ACB panels and controllers within 8 weeks, civil works within 8 weeks, and commissioning within 14 weeks, from the date of the GeM contract, followed by the 30-day reliability run (Clause 8.4).
4.	**Warranty Period:** two (2) years comprehensive on-site warranty from the date of the commissioning certificate, followed by three (3) years comprehensive on-site AMC (CAMC), as per Section 9.
5.	**Payment terms:** a) Items A1, B2 and B3: 70% shall be paid within 30 days of the supply of the items at INCOIS. Item B1 (installation, testing and commissioning): 70% shall be paid within 30 days of the completion of erection, cabling and the controller retrofit, as certified by the Engineer-in-Charge. Payment is subject to the receipt inspection report, FAT report, CPCB IV+ type-approval and COP certificates, the original ink-signed invoice and the warranty undertaking; the Performance Security (Sl. 7) shall be in place. b) A further 20% of Items A1 and B1 to B3 shall be released within 30 days of successful installation, testing and commissioning. Release is subject to the commissioning certificate (Clause 8.2), the handover documents (Clause 8.5) and the Engineer-in-Charge's certificate.

	Item E1: 90% shall be paid with this payment. c) Items C1 to C12 (civil works): 90% of the value of the work done, at jointly measured quantities, shall be paid on a pro-rata basis in not more than two (2) running account (RA) bills, the second on completion of the civil works. d) The balance 10% of Items A1, B1 to B3, C1 to C12 and E1 shall be released within 30 days of the completion of the two(2) year warranty period, less any recoveries under Clause 9.5. e) Items D1 to D3 (CAMC, years 3 to 5): the rate for each year will be paid in four equal quarterly instalments, in arrears, after the completion of each quarter, within 30 days of validating the quarterly service report, breakdown logs and response times under Clause 9.5, less recoveries. No separate payment is made for the two-year warranty; its cost is included in Items A1 and B1. f) For measured items, payment will be as per actual measurement. ***Net payment will be released after statutory deductions.***
6.	**Earnest Money Deposit (EMD)**: Rs.5,20,000/- (Rupees five lakh twenty thousand only) has to be submitted as per the following form/ options: 1. Demand Draft 2. Insurance Surety Bond 3. e-Bank Guarantee 4. Fixed Deposit in favor of Director, INCOIS payable at Hyderabad with validity for a period of 45 days beyond the tender validity period. 5. BG format for Bid Security (Annexure –III) 6. Online payment through NEFT/RTGS as per Bank details given below: Name of the Bank: SBI, HAL Campus Branch: HAL Campus Account Name: Director, INCOIS Account No.10442322840 IFSC Code: SBIN0001676 The scanned copy of the same is to be uploaded to the GeM Portal while submitting the tender. Bank Guarantee should be sent by the issuing banker directly to the office of INCOIS, Hyderabad. The original DDs / Financial instruments if any should reach to INCOIS within 5 working days of Bid opening, failing which the bid may treated as incomplete & may lead to rejection of the bid by buyer without making any reference to the bidder. Micro and Small Enterprises (MSEs) registered under Udyam Registration and Startups recognized by the Department for Promotion of Industry and Internal Trade (DPIIT) are exempted from submission of EMD, subject to uploading a valid registration certificate.
7.	**Performance Security**: Successful Bidder should submit Performance Bank Guarantee 5% of the total contract value within 15 days of the award of the CAMC contract, valid for 38 months from the date of the CAMC contract (60 days beyond the end of the CAMC period; to be extended if commissioning is delayed), as per the ePBG details of the GeM bid and the format at Annexure-IV, in the following form/ options: Demand Draft Insurance Surety Bond e-Bank Guarantee Fixed Deposit Receipt in favour of Director, INCOIS payable at Hyderabad Online payment through NEFT/RTGS as per Bank details given below: **Name of the Bank:** SBI, HAL Campus **Branch:** HAL Campus **Account Name**: Director, INCOIS **Account No.**10442322840 **IFSC Code:** SBIN0001676 **Performance Security is liable to be invoked in the event of** Non-execution contract during validity period of the contract If the service of the successful bidder is found to be unsatisfactory and fails to adhere to our bid

	terms and conditions Any unilateral revision/decision made by the successful bidder during the validity period of the contract.
8.	**Prices:** The Bidder should provide prices for the contract period, inclusive of all duties, freight, insurance, loading and unloading at site.
9.	**Quantities:** the quantities of the measured items (B2 and C1 to C12) are tentative and may vary at site. Payment will be made on the actual quantities executed, jointly measured and recorded by the Engineer-in-Charge and the contractor, at the quoted rates, as per the CPWD Works Manual and the CPWD General Conditions of Contract, with measurement as per IS 1200, within the limits allowed under the GeM GTC. Items needed for satisfactory completion but not listed are covered by Item E1, and no claim will be entertained for them. Any extra work outside the scope of this bid, ordered in writing by the Engineer-in-Charge, will be paid separately, at rates derived as per CPWD guidelines (the CPWD Delhi Schedule of Rates current on the bid due date, with the cost index for Hyderabad, or by analysis of market rates where the item is not in the schedule).
10.	**Labor laws:** the contractor shall comply with the four Labour Codes (Code on Wages, 2019; Industrial Relations Code, 2020; Occupational Safety, Health and Working Conditions Code, 2020; Code on Social Security, 2020) as notified, and with the earlier labour enactments and State rules for provisions not yet in force; and with the CEA (Measures relating to Safety and Electric Supply) Regulations, 2023. INCOIS shall not be liable for any accident to the contractor's personnel.
11.	**Imported goods:** in case of imported products, the OEM or its authorised seller shall have a registered office in India to provide after-sales service. A certificate to this effect shall be uploaded.
12.	Bidders should fill in and submit the compliance statements along with bid. Offers received without the compliance statements will be summarily rejected. Any falsification/suppression of information could lead to disqualification. Any deviations technically or commercially should be clearly indicated in the technical bid offer only
13.	Purchase preference under the Public Procurement (Preference to Make in India) Order 2017, as amended, and the Public Procurement Policy for MSEs will apply as notified. Rule 144 (xi) of GFR 2017 applies.
14.	The successful bidder shall ensure safety and security of all workforces employed for this work and equipment provided by him until all the works entrusted are completed in all respects and taken over by INCOIS. In the event of damages except under force majeure clause i.e., fire, wind, rain, floods or through any hazards, pilferage, other natural calamities etc., the successful Bidder shall make good the damaged works and restore the same to the original condition at his own cost
15.	If any loss or damage is caused to INCOIS in any way, by installation the cost of the same will be recovered from the successful bidder.
16.	**Dispute Resolution:** Dispute resolution shall be governed as per the standard multi-tier options provided under GeM GTC
17.	**Termination Clause:** Where the Contractor commits a material breach — including a repeated breach after a Performance Improvement Notice, INCOIS may, after issuing 15 (fifteen) days' written notice to cure and the Contractor having failed to cure within that period, terminate the contract in whole or in part and forfeit the Performance Security in full. INCOIS may additionally get the balance work executed at the Contractor's risk and cost and recover the excess expenditure from any sum due to the Contractor or from the PerformanceSecurity. INCOIS may also terminate the contract for convenience on 90 (ninety) days' written notice, in which case the Contractor is paid for services satisfactorily rendered up to the date of termination and the Performance Security is released, with no further claim on either side. Termination does not prejudice any accrued right or remedy of either party.
18.	INCOIS reserves the right to vary the quantities of work, at the contract rates and within the limits allowed under the GeM GTC, before/after issue of the GeM contract and Bidders shall not have any claim whatsoever on this account.
19.	Any bidder from a country which shares a land border with India shall be eligible to bid in this tender only if the bidder is registered with the Competent Authority, i.e. the Registration Committee constituted by the Department for Promotion of Industry and Internal Trade (DPIIT), in terms of Department of Expenditure O.M. No. F.7/10/2021-PPD dated 23.02.2023 read with O.M.

	F.No. 6/18/2019-PPD dated 23.07.2020 and the amendments thereto. The bidder shall submit a certificate to this effect in the bid. If the certificate is found false, this would be a ground for immediate termination and further legal action in accordance with law.

IMPORTANT NOTE

If there is any discrepancy or contradiction between the Bid Specific Additional Terms and Conditions (ATC) and the GeM General Terms and Conditions (GTC), the clauses mentioned in the buyer added ATC – including payment conditions - will prevail and shall supersede the GeM GTC

Annexure-I

Self Declaration

(on letterhead, signed by the authorized signatory, with stamp)

I, _____, son / daughter of _____, sole proprietor / partner / director of M/s _____, having read and understood the bid No. INCOIS:PUR: 59/2026, hereby undertake that we agree to and shall abide by the scope of work, design basis, technical specifications, testing and commissioning requirements, warranty and CAMC conditions, buy-back conditions and all other terms and conditions of the bid for the work "Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad".

I further declare that our firm will complete the work within the stipulated period and maintain the installation as per the warranty and CAMC clauses of this bid document.

Signature with date:

Name and designation:

Duly authorised to sign for and on behalf of:

Name and address of the bidder, with seal:

Annexure-II

OEM Authorization Format

(on the OEM's letterhead; to be submitted with the technical bid)

OEM's reference No. _____ Date: _____

To
The Director
Indian National Centre for Ocean Information Services (INCOIS)
Pragathi Nagar, Hyderabad 500 090

Ref.: Your bid No. INCOIS:PUR: 59/2026 for "Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, upgradation of the synchronising panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad".

We, _____, are the manufacturers of the DG set model _____ (prime rating _____ kVA, not less than 630 kVA), holding CPCB IV+ type-approval certificate No. _____ dated _____, with factories at _____. We authorise M/s _____ (name and address of the dealer), our authorised dealer since _____, to submit a bid, process it and enter into a contract with you against the above bid for the goods manufactured by us.

No firm other than the above dealer is authorised by us for this bid.

As principals, we commit ourselves to supervise the installation and commissioning, to extend full support for the two-year warranty and the three-year CAMC from commissioning, as per the bid document, through ourselves or our authorised service provider M/s _____ (name and Hyderabad address); if the authorisation of the above dealer or service provider ends, or it fails to perform, to carry out the balance warranty and CAMC directly or through another authorised service provider at the contract rates; and to make spares available for at least ten (10) years from the date of supply.

Where the above dealer relies on our experience or past performance for Criteria 5, 8, 9 or 12 of Section 2, we confirm that the contracts and completion certificates submitted are our own and are true copies.

Contact person / designation / phone / e-mail: _____

Signature with date:

Name and designation:

Duly authorised to sign for and on behalf of:

Name and address of the OEM, with seal:

Annexure-III

Bank Guarantee Format for Bid Security

Whereas _____ (hereinafter called "the Bidder") has submitted its bid dated _____ for "Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad" under bid No. INCOIS:PUR: 59/2026 (hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE _____ (name of bank) of _____, having our registered office at _____ (hereinafter called "the Bank"), are bound unto the Director, INCOIS (hereinafter called "the Purchaser") in the sum of Rs. _____ for which payment well and truly to be made to the Purchaser, the Bank binds itself, its successors and assigns by these presents.

THE CONDITIONS of this obligation are:

1. If the Bidder withdraws or modifies its Bid during the period of bid validity; or

2. If the Bidder, having been notified of the acceptance of its Bid during the period of bid validity, (a) fails or refuses to accept the contract, or (b) fails or refuses to furnish the Performance Security.

We undertake to pay the Purchaser up to the above amount on receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser notes that the amount claimed is due to it owing to the occurrence of one or both of the above conditions, specifying the condition(s).

This guarantee will remain in force up to and including 45 days after the period of bid validity, i.e. up to _____, and any demand in respect thereof should reach the Bank not later than this date.

(Signature, name and designation of the authorised officer of the Bank, with seal)

Annexure-IV

Bank Guarantee Format for Performance Security

To
The Director
Indian National Centre for Ocean Information Services (INCOIS)
Ocean Valley, Pragathi Nagar (BO), Nizampet (SO), Hyderabad 500 090

Whereas _____ (name and address of the contractor) (hereinafter called "the Contractor") has undertaken, in pursuance of GeM contract No. _____ dated _____, the work "Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, up gradation of the synchronizing panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad" (hereinafter called "the Contract");

And whereas it has been stipulated in the Contract that the Contractor shall furnish a bank guarantee by a scheduled commercial bank for the sum specified therein as security for compliance with its obligations under the Contract, including the warranty and the CAMC; and whereas we have agreed to give the Contractor such a guarantee;

Now therefore we hereby affirm that we are guarantors and responsible to you, on behalf of the Contractor, up to a total of Rs. _____ (in words _____), and we undertake to pay you, upon your first written demand declaring the Contractor to be in default under the Contract and without cavil or argument, any sum or sums within the limit of the guarantee amount, without your needing to prove or to show grounds or reasons for your demand.

We hereby waive the necessity of your demanding the said debt from the Contractor before presenting us with the demand. We further agree that no change, addition or other modification of the terms of the Contract shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change.

This guarantee shall be valid until _____ (60 days beyond the end of the CAMC period). Our _____ branch at _____ is liable to pay the guaranteed amount on a written claim received at that branch on or before the said date, after which the Bank shall be discharged of all liability under this guarantee.

(Signature, name and designation of the authorised officer of the Bank, with seal, name and address of the branch)

Annexure-V

Eligibility Declarations

(on letterhead, with supporting documents; part of the technical bid)

Ref.: Bid No. INCOIS:PUR: 59/2026; Supply, installation, testing and commissioning of two (2) Nos. 630 kVA CPCB IV+ compliant diesel generating sets with acoustic enclosures, upgradation of the synchronising panel controllers, and associated electrical and civil works, under buy-back of the four (4) existing DG sets (2 x 600 kVA and 2 x 320 kVA), with two (2) years comprehensive on-site warranty followed by three (3) years comprehensive AMC (CAMC), at INCOIS, Hyderabad.

Bidder's name and address: _____ Reference No. _____ Date _____

We confirm that we comply with all the stipulations of the bid document and declare as under, and shall provide evidence of our continued eligibility to INCOIS when requested. We, including our affiliates, subsidiaries and sub-contractors for any part of the contract:

(a) are not insolvent, in receivership, bankrupt or being wound up, do not have our affairs administered by a court or a judicial officer, do not have our business activities suspended, and are not the subject of legal proceedings for any of these reasons;

(b) do not stand declared ineligible, blacklisted, banned or debarred by INCOIS or MoES, or by any agency of the Government of India, and have not been convicted within three years before the last date of bid submission for any offence relating to procurement; we have not changed our name or created an allied firm to escape such disqualification;

(c) have no association, as bidder, partner, director or employee, with any retired official of INCOIS or near relation of such official, as barred by the bid document;

(d) have no conflict of interest affecting fair competition; our prices are competitive and arrived at without any unfair or anti-competitive means, and we have not induced and shall not induce any other bidder to submit or not to submit an offer.

Rule 144(xi) of GFR 2017: We have read the clause on restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries. We certify that we are not from such a country or, if from such a country, are registered with the Competent Authority (copy enclosed); and that we shall not sub-contract any work to a contractor from such a country unless it is so registered.

MSE status: We are a Micro / Small / Medium enterprise / Others: _____. Udyam Registration No. _____ (certificate enclosed). Whether owned by SC/ST or women entrepreneur: _____.

Startup status: We are / are not a Startup recognized by DPIIT (certificate No. _____).

Make in India status: Having read the Public Procurement (Preference to Make in India) Order, 2017 as amended, we certify that the local content of the offered goods and works is _____% and the value addition is made at _____ (location). We are a Class-I Local Supplier / Class-II Local Supplier / Non-Local Supplier (strike out what is not applicable). We do not belong to any country whose bidders are notified as ineligible on a reciprocal basis under this Order.

We confirm that the particulars above are correct and nothing is concealed. We understand that a false or misleading declaration would violate the Code of Integrity and attract the penalties under the bid document and GeM GTC.

Signature with date:

Name and designation:

Duly authorized to sign for and on behalf of:

Name and address of the bidder, with seal:

Annexure-VI

Site Visit Certificate

(to be signed by the INCOIS representative and uploaded with the bid; mandatory)

This is to certify that Shri / Smt. _____, representing M/s _____, visited the main substation, INCOIS, Ocean Valley, Pragathi Nagar, Hyderabad on _____ in connection with bid No. INCOIS:PUR: 59/2026, and has seen:

- the existing DG sets (2 x 600 kVA and 2 x 320 kVA) offered for buy-back, and their condition;
- the synchronising panel, the Woodward GCU 2000 controllers and the generator incomer bays;
- the site of the new DG yard behind the main substation, the fence line, the retaining wall area, the high-mast location, and the access for crane and trailer;
- the existing power cables, their route and the proposed route to the new yard;
- the day tanks, the APFC panel, the solar PV inverter interface point and the BMS interface point;
- the shutdown restrictions applicable to the main substation and the data centre.

Bidder's representative	INCOIS representative
Signature:	Signature:
Name:	Name:
Designation:	Designation:
Date:	Date and office seal:

Annexure-VII

Details of the DG Sets Offered for Buy-back

The sets below are offered on "as is where is" basis. INCOIS gives no warranty on their condition. Bidders shall satisfy themselves at the site visit.

Sl.	Equipment	Rating	Year	Make / engine model / Sr. No.	Running hours (Sep 2026)	Present condition
1	DG-1	320 kVA	2004	Cummins, NTA-855-G2-BC	1,558	Working
2	DG-2	320 kVA	2004	Cummins, NTA-855-G2-BC	1,469	Working
3	DG-3	600 kVA	2010	Cummins, VTA-28-G3-I	1,200*	Working
4	DG-4	600 kVA	2010	Cummins, VTA-28-G3-I	1,109.9	Working

** The hour meter of DG-3 restarted when its controller / display was replaced. Hours are as recorded by INCOIS and are for information; bidders shall read the meters at the site visit.*

Included with each set: engine, alternator, base frame and fuel tank, radiator, acoustic enclosure (where fitted), silencer and exhaust piping up to the stack, batteries and the control panel mounted on the set. The two GCU 2000 controllers removed from the 600 kVA bays are also included. The synchronizing panel, power cables, earthing and day tanks are not part of the buy-back.

Guaranteed Technical Particulars (GTP)

(to be filled by the bidder with values from the OEM datasheet)

Sl.	Particular	Unit	Required	Offered
DG set				
1	Make and model of DG set	-	To be stated	
2	CPCB IV+ type-approval / COP certificate No., date, agency	-	To be stated	
3	Prime rating offered at 0.8 pf (ISO 8528-1)	kVA / kWe	≥ 630 / 504	
4	Output at site conditions (Clause 4.1), with OEM derating statement	kVA / kWe	≥ 630 / 504	
5	Overload capacity	%	10% for 1 h in 12 h	
Engine				
6	Engine make and model; number of cylinders; displacement	- / no. / L	To be stated	
7	Aspiration; fuel injection; governor	-	TA, electronic	
8	ISO 8528-5 performance class	-	G2 or better	
9	Fuel consumption at 25 / 50 / 75 / 100% load	L/h	To be stated	
10	Fuel consumption at 75% load	L/kWh	≤ 0.26	
11	DEF consumption	% of fuel	To be stated	
12	Aftertreatment configuration (DOC / SCR / DPF)	-	To be stated	
13	Minimum continuous load for healthy SCR operation	% of rating	To be stated	
14	Lube oil consumption; oil change interval	% of fuel / h	To be stated	
15	Base tank capacity; hours at 75% load	L / h	≥ 6 h	
16	Maximum exhaust back-pressure; exhaust gas flow and temperature	kPa / m^3/min / °C	To be stated	
17	Radiator air flow; design ambient	m^3/min / °C	50 °C	
Alternator				
18	Make, model and frame	-	To be stated	
19	Winding pitch; insulation class; temperature rise; IP	-	2/3; H; within H; IP23	
20	Excitation system; short-circuit sustaining	- / %	PMG / AREP; ≥ 250% for 10 s	
21	Voltage regulation (steady state)	%	± 1	
22	Motor starting at 30% voltage dip	skVA	≥ 1,500	
23	X″d (sub-transient reactance)	pu	To be stated	
24	Voltage THD at no load	%	≤ 5	
Enclosure and auxiliaries				
25	Noise at 1 m from enclosure	dB(A)	≤ 75	
26	Enclosure L x W x H; weight of set with fuel	mm / kg	To be stated	

Sl.	Particular	Unit	Required	Offered
27	Battery type, voltage and capacity; charger	-	24 V DC	
28	OEM engine control panel model; J1939 support	-	To be stated	
29	Paralleling controller and mains controller, make and model	-	Clause 5.3	
30	DG ACB make, frame rating, breaking capacity	- / A / kA	1250 A (or to suit), 50 kA, 4P, fixed, manual, LSIG	
31	Delivery period	weeks	≤ 8	

BMS Point List

(Modbus TCP/IP, read-only, from the paralleling controllers)

Sl.	Point	Per set / plant	Type
1	Running, stopped, in auto, in manual, breaker open / closed	Per set	Status
2	Common alarm, common shutdown, active ECU fault codes	Per set	Alarm
3	Voltage (L-L, L-N), current per phase, frequency	Per set	Analogue
4	kW, kVAr, kVA, power factor, load as % of rating	Per set	Analogue
5	kWh, running hours, number of starts	Per set	Counter
6	Lube oil pressure, coolant temperature, battery voltage	Per set	Analogue
7	Fuel level in base tank; day tank low level	Per set	Analogue / alarm
8	DEF level, DEF quality or dosing fault	Per set	Analogue / alarm
9	SCR inlet and outlet temperature; exhaust back-pressure	Per set	Analogue
10	After treatment derate or inducement active	Per set	Alarm
11	Bus voltage, frequency, total kW and kVA	Plant	Analogue
12	Mains available; plant on DG; load-dependent start/stop status; mains breaker open / closed; closed transition in progress	Plant	Status
13	Load shed stage 1 / 2 active	Plant	Status
14	PV inhibit active (plant on DG); reverse-power trip; mains decoupling or parallel-timer trip	Plant	Status / alarm

Items 8 to 10 show whether a set is being run too lightly for its SCR system, and shall not be left out.

Annexure-X

Data of the Existing Installation

(for bidders' information; to be verified at the site visit)

Sl.	Item	Data
1	Synchronising panel: make, year, busbar rating, short-time rating	Lotus Powergear Pvt. Ltd., Bangalore; installed 2014; busbar rating 2,000 A; short-time rating 50 kA
2	Generator incomer ACBs of the 600 kVA bays: make, rating, poles, release	ABB, installed 2014; rated 1,000 A;electrically operated (motor operator, closing and shunt-trip coils) for automatic synchronising; model, poles and release to be verified at the site visit
3	Existing controllers	Woodward GCU 2000 series, 4 Nos. (one per bay)
4	Existing power cables, 600 kVA bays	3 runs of 3.5C x 300 sq mm Al XLPE armoured per set, about 40 m
5	Route length, synchronising panel to the new DG yard	About 40 m (to be measured at joint survey)
6	Solar PV on campus: capacity, inverter make and communication	614.40 kWp; inverter make to be verified at site; Modbus RTU / TCP
7	BMS: make and protocol at the interface point	Siemens; Modbus TCP/IP; interface point to be verified at site
8	APFC panel: rating and control point for DG interlock	2 Nos., 315 kVAr each; DG interlock control point to be verified at site
9	Day tanks	2 Nos. x 1,000 L, MS
10	Non-essential feeders for load shedding (up to 4)	To be nominated by INCOIS at the joint survey
11	Mains/DG changeover point: breakers (make, rating, electrically or manually operated), changeover logic and interlocks	To be verified at the site visit (needed for the closed transition, Clause 5.3.7)

Annexure-XI

Buy-back Price Break-up

(to be uploaded only with the price bid, in the Financial Document column of the GeM bid)

Sl.	Item	Amount (Rs.)
A	Price of the two (2) new DG sets as quoted for Item A1, excluding GST	
B	GST on row A (at ____ %)	
C	Buy-back value of the four (4) old DG sets, excluding GST: DG-1 Rs. _____; DG-2 Rs. _____; DG-3 Rs. _____; DG-4 Rs. _____	
D	Net amount for Item A1 to be quoted on GeM (A + B − C)	

The A1 rate entered on GeM shall be worked out so that the A1 amount, including GST, equals row D. GST on the buy-back value will be charged by INCOIS in its invoice for the old sets and paid by the contractor with the buy-back value (Section 6). The reserve value condition at Section 6 (c) applies.