

This tender floated in GeM portal. Bidder has to submit their offer through GeM only.

बिड दस्तावेज़ / Bid Document

बिड विवरण/Bid Details	
बिड बंद होने की तारीख/समय /Bid End Date/Time	01-08-2025 13:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	01-08-2025 13:30:00
बिड पेशकश वैधता (बंद होने की तारीख से)/Bid Offer Validity (From End Date)	90 (Days)
मंत्रालय/राज्य का नाम/Ministry/State Name	Pmo
विभाग का नाम/Department Name	Department Of Atomic Energy
संगठन का नाम/Organisation Name	Irel (india) Limited
कार्यालय का नाम/Office Name	Ho
कुल मात्रा/Total Quantity	5543
वस्तु श्रेणी /Item Category	Title1 , Title2 , Title3 , Title4 , Title5 , Title6 , Title7 , Title8 , Title9 , Title10 , Title11 , Title12 , Title13 , Title14 , Title15 , Title16 , Title17 , Title18 , Title19 , Title20 , Title21 , Title22 , Title23 , Title24 , Title25 , Title26 , Title27 , Title28 , Title29 , Title30 , Title31 , Title32 , Title33 , Title34 , Title35 , Title36 , Title37 , Title38 , Title39 , Title40 , Title41 , Title42 , Title43 , Title44 , Title45 , Title46 , Title47
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Supply, Erection, Commissioning and Performance testing of Instrumentation & Automation package
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Category not available on GeM for the text string uploaded by the buyer
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> Supervisory Control and Data Acquisition (SCADA) Lab Kit
बीओक्यू शीर्षक /BOQ Title	Supply Erection Commissioning and Performance Testing of Instrumentation and Automation package
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	31 Lakh (s)
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / MSE Exemption for Years Of Experience and Turnover	Yes Complete
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / Startup Exemption 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),Additional Doc 1 (Requested in ATC),Additional Doc 2 (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 दस्तावेजों 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?	No
बिड लगाने की समय-सीमा बढ़ाने के लिए आवश्यक न्यूनतम सहभागी विक्रेताओं की संख्या। / Minimum number of bids required to disable automatic bid extension	1
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / Number of days for which Bid would be auto-extended	7
बिड से रिवर्स नीलामी सक्रिय किया/Bid to RA enabled	No
क्रेता के लिए उपलब्ध आईटीसी/ITC available to buyer	Yes
बिड का प्रकार/Type of Bid	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/Primary product category	Title1
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय /Time allowed for Technical Clarifications during technical evaluation	2 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
अनुमानित बिड मूल्य /Estimated Bid Value	10366640
Payment Timelines	Payments shall be made to the Seller within 30 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
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

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	175706

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).	22

(a). जेम की शर्तों के अनुसार ईएमडी छूट के इच्छुक बिडर को संबंधित कैटेगरी के लिए बिड के साथ वैध समर्थित दस्तावेज़ प्रस्तुत करने है। एमएसई कैटेगरी 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.

लाभार्थी /Beneficiary :

CM-Finance (C&FV)
IREL (India) Limited, RED, Udyogamandal
(Gautam Samui)

विभाजन/Splitting

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

एमआईआई खरीद वरीयता/MII Purchase Preference

एमआईआई खरीद वरीयता/MII Purchase Preference	Yes
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एमएसई खरीद वरीयता/MSE Purchase Preference

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
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1. If the bidder is a Micro or Small Enterprise as per latest orders issued by Ministry of MSME, the bidder shall be exempted from the eligibility criteria of "Experience Criteria" as defined above subject to meeting of quality and technical specifications. The bidder seeking exemption from Experience Criteria, shall upload the supporting documents to prove his eligibility for exemption.

2. If the bidder is a Micro or Small Enterprise (MSE) as per latest orders issued by Ministry of MSME, the bidder

shall be exempted 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 exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking exemption from Turnover, shall upload the supporting documents to prove his eligibility for exemption.

3. If the bidder is a DPIIT registered Startup, the bidder shall be exempted from the the eligibility criteria of "Experience Criteria" as defined above subject to their meeting of quality and technical specifications. The bidder seeking exemption from Experience Criteria, shall upload the supporting documents to prove his eligibility for exemption.

4. If the bidder is a DPIIT registered Startup, the bidder shall be exempted 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 exempted from the "OEM Average Turnover" criteria also subject to meeting of quality and technical specifications. The bidder seeking exemption from Turnover shall upload the supporting documents to prove his eligibility for exemption.

5. The minimum average annual financial turnover of the bidder during the last three years, ending on 31st March of the previous financial year, should be as indicated above in the bid document. Documentary evidence in the form of certified Audited Balance Sheets of relevant periods or a certificate from the Chartered Accountant / Cost Accountant indicating the turnover details for the relevant period shall be uploaded with the bid. In case the date of constitution / incorporation of the bidder is less than 3-year-old, the average turnover in respect of the completed financial years after the date of constitution shall be taken into account for this criteria.

6. 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.

7. Purchase preference will be given to MSEs having valid Udyam Registration 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. 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. In respect of bid for Services, the bidder must be the Service provider of the offered Service. 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, while evaluating the bid. 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. 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. 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.

8. 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.

If the buyer has mentioned MSE purchase preference in ATC then service provider is required to upload necessary documents for MSE purchase preference for verification by the buyer during evaluation.

Pre Bid Detail(s)

मूल्य भिन्नता खंड दस्तावेज़/Pre-Bid Date and Time	प्री-बिड स्थान/Pre-Bid Venue
21-07-2025 11:00:00	IREL (India) Limited, RED, Udyogamandal

Title1

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	2	300

Title2

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title3

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title4

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	3	300

Title5

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	9	300

Title6

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	4	300

Title7

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	4	300

Title8

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title9

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title10

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	250	300

Title11

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	2	300

Title12

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	750	300

Title13

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	750	300

Title14

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	300	300

Title15

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	300	300

Title16

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	4	300

Title17

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	5	300

Title18

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	40	300

Title19

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	40	300

Title20

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title21

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title22

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	2	300

Title23

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	300	300

Title24

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title25

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	2	300

Title26

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title27

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title28

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	3	300

Title29

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	9	300

Title30

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	4	300

Title31

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	4	300

Title32

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title33

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title34

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	250	300

Title35

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	750	300

Title36

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.No.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	750	300

Title37

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	प्रेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	300	300

Title38

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	300	300

Title39

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	4	300

Title40

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	5	300

Title41

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	40	300

Title42

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	40	300

Title43

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title44

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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

क्र.सं./S.N o.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
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क्र.सं./S.No.	परेषिती/रिपोर्टिंग अधिकारी /Consignee Reporting/Officer	पता/Address	मात्रा /Quantity	डिलीवरी के दिन/Delivery Days
1	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	2	300

Title45

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	300	300

Title46

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	1	300

Title47

(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.

इनपुट कर क्रेडिट(आईटीसी) तथा रिवर्स प्रभार (आरसीएम)/Input Tax Credit(ITC) and Reverse Charge(RCM) Details

जीएसटी पर इनपुट कर क्रेडिट /ITC on GST	जीएसटी उपकर कर क्रेडिट /ITC on GST Cess
100%	100%

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	Anil Kumar.V.A	683501,IREL (India) Limited; UDYOGMANDAL,Ernakulam.	2	300

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 $(\text{Increased quantity} \div \text{Original quantity}) \times \text{Original delivery period (in days)}$, 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. Generic

Bidder shall submit the following documents along with their bid for Vendor Code Creation:

- a. Copy of PAN Card.
- b. Copy of GSTIN.
- c. Copy of Cancelled Cheque.
- d. Copy of EFT Mandate duly certified by Bank.

अस्वीकरण/Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. If any clause(s) is / are incorporated by the Buyer regarding following, the bid and resultant contracts shall be treated as null and void and such bids may be cancelled by GeM at any stage of bidding process without any notice:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process. (However, in bids for [attached categories](#), trials are allowed as per approved procurement policy of the buyer nodal Ministries)
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.

14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.
15. Buyer added ATC Clauses which are in contravention of clauses defined by buyer in system generated bid template as indicated above in the Bid Details section, EMD Detail, ePBG Detail and MII and MSE Purchase Preference sections of the bid, unless otherwise allowed by GeM GTC.
16. 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 catalogs 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 within 4 days of bid publication on GeM. 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 are mandated to ensure compliance with all the applicable laws / acts / rules including but not limited to all Labour Laws 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. Any non-compliance will be treated as breach of contract and Buyer may take suitable actions as per GeM Contract.

[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 कार्यवाई 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---



Unleashing Values



आईआरईएल (इंडिया) लिमिटेड IREL (India) Limited

(पूर्वमेंडियनरेअरअर्थ्सलिमिटेड Formerly Indian Rare Earths Ltd.)

रेअरअर्थ्सप्रभाग Rare Earths Division,

उद्योगमंडल Udyogamandal, कोची Kochi-683501

CIN: U15100MH1950GOI008187

ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 COMPANY

GST ID No. 32AAACI2799F2ZM



भारत 2023 INDIA
वसुधैव कुटुम्बकम्
ONE EARTH • ONE FAMILY • ONE FUTURE

IREL/RED/P/24-25/32948/

निविदा आमंत्रण सूचना NOTICE INVITING TO TENDER

SCHEDULE OF TENDER (SOT)

a.	Description of supply	Supply, Erection, Commissioning and Performance Testing of Instrumentation & Automation package for URP + Y & Dy stream.
b.	Mode of tender	Open tender invited in two parts. Part-I: Techno-Commercial Bid Part - II: Price Bid.
	Pre-Bid meeting	21-07-2025, 11.00Hrs, at IREL, RED, Udyogamandal
c.	Estimated Value	Rs.1,03,66,640/- (all inclusive)
d.	Earnest Money Deposit (EMD)	Rs.1,75,706/-
e.	Validity of Tender	90 days from the date of opening of Techno-Commercial bid.

NOTE

EMD EXEMPTION: For this tender, Under MSE category, only manufacturers for goods are eligible for exemption from EMD. Traders are excluded from the purview of this Policy. The bidder seeking EMD exemption, must submit the valid supporting document for the relevant category along with Udyam Certificate otherwise offer will be rejected without any further clarification.

BIDDING SYSTEMS

This is a two-part tender. The tenderers should bifurcate their quotations in two parts (Part-I & II).

PART-I “Techno-commercial bid”:

It contains the eligibility, technical quality and performance aspects, EMD, commercial terms and conditions and documents sought in the tender, **except the price and relevant financial details.**

PART-II “Financial bid”:

It contains the price quotation along with other financial details.

PART-I shall be opened first and evaluated by a committee constituted by competent authority.

PART-II: the financial bid of Techno-commercially eligible bidders shall be opened on recommendation of above committee on a notified date and time after sending advance notice to all qualified bidders for being present.

CONTACT PERSONS OF TENDERING AUTHORITY

Purpose	Name	E-mail ID	Contact No.
For Bid/tender related query	Shri. V A Anil Kumar CM-Technical (Purchase)	purchase-red@irel.co.in	0484-2545199 9443482644
For Technical Specification / Scope of work related query	Shri. K A Joshy M-Technical (Electrical)	electrical-red@irel.co.in	91 7593880813
For Consignment/Goods Transportation related query	Shri. Sanjaykumar Vind SM-Technical (Stores)	stores-red@irel.co.in	91 8301997625
For Payment/refund related query	Smt. P Kamalam DGM – Finance (A & E)	finance-red@irel.co.in	91 8593994144

EARNEST MONEY DEPOSIT (EMD)/ BID SECURITY

- 1.0 Earnest Money Deposit (EMD) is a deposit received from the tenderers in token of their earnestness in submitting their offer to undertake the supplies/works/services/consultancy contracts and conclude a contract if entrusted to them on the basis of their tender. **The offers received from tenderers without EMD shall be summarily rejected except where an exemption is provided in the tender.**
- 2.0 EMD is to be remitted by way of 'Insurance Surety Bonds' or 'account payee demand draft' or 'fixed deposit receipt' or 'bankers cheque' or 'Bank Guarantee from any scheduled commercial Banks' or "online payment" in favour of IREL. In case of online payment, bidders should submit the UTR no. enabling verification of receipt of the amount.
- 3.0 Government Body/Public Sector Undertakings may be exempted from payment of EMD with the approval of Competent Authority.
- 4.0 EMD amount in rupee value is to be mentioned as a fixed amount in the tender and not as a percentage of the estimated cost and no interest is payable on the EMD.
- 5.0 EMD shall be exempted to MSEs and Start-ups as per prevailing guidelines in this regard. Under MSE category, only manufacturers for goods and Service Providers for Services are eligible for exemption from EMD.
- 6.0 EMD is liable to be forfeited if:
- a) The tenderer changes the terms and conditions or prices or withdraw his quotation subsequent to the date of opening/ The tenderer impairs or derogates from the tender in any respect within the period of validity of the tender
 - b) The tenderer fails to accept the order when placed or fails to commence supplies/works/services after accepting the order.
 - c) In case bidder submits false/fabricated documents. d) In case bidder fails to submit SD as stipulated in the tender.
- 7.0 EMD may be adjusted against security deposit / performance security of the successful bidder. EMD of the unsuccessful bidders should be returned to them at the earliest after expiry of the final bid validity period and latest by the 30th day after the award of the contract. Bid security should be refunded to the successful bidder on receipt of performance security. However, in case of two stage bidding/ 2or 3 envelope bidding, EMD of unsuccessful bidders during first stage i.e. technical evaluation etc. should be returned within 30 days of declaration of result of first stage i.e. technical evaluation etc.
- 8.0 In case where the EMD is provided in form of BG in the prescribed format to be attached with the tender, the BG shall be obtained from a scheduled commercial Bank with validity of 45 days beyond final bid validity period.

GUIDELINES FOR PROCUREMENT FROM MSEs

1.0 Procurement from Micro, Small and Medium Enterprises (MSEs):

The Procurement Policy for Micro and Small Enterprises, 2012 [as amended time to time] has been notified by the Government in exercise of the powers conferred in Section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act, 2006. In line with Government Policy, the prevailing guidelines in this regard as issued from time to time is to be strictly adhered to.

2.0 As per the Government notified Public Procurement Policy for Micro & Small Enterprises (MSE), it is mandated that 25% of procurement of annual requirement of goods and services will be sourced from the Micro and Small Enterprises.

3.0 In tender, participating Micro and Small Enterprises (MSE) quoting price within price band of L1+15 (fifteen) per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a MSE and such MSE shall be allowed to supply up to 25(twenty-five) per cent of total tendered value. The 25(twenty - five) per cent quantity is to be distributed proportionately among these bidders, in case there are more than one MSEs within such price band.

4.0 Within this 25% (Twenty Five Percent) quantity, a purchase preference of four (4) per cent s reserved for MSEs owned by Scheduled Caste (SC)/ Scheduled Tribe (ST) entrepreneurs and three (3) percent is reserved for MSEs owned by women entrepreneur (if they participate in the tender process and match the L1 price).However, in event of failure of such MSEs to participate in tender process or meet tender requirements and L1 price, four percent sub-target for procurement earmarked for MSEs owned by SC/ST entrepreneurs and three (3) percent earmarked to women entrepreneur will be met from other MSEs.

5.0 MSEs would be treated as owned by SC/ ST entrepreneurs:

a) In case of proprietary MSE, proprietor(s) shall be SC /ST;

b) In case of partnership MSE, the SC/ ST partners shall be holding at least 51% (fifty-one percent) shares in the unit;

c) In case of Private Limited Companies, at least 51% (fifty-one percent) share shall be held by SC/ ST promoters.

6.0 If subcontract is given to MSEs, it will be considered as procurement from MSEs.

7.0 In case of tender item cannot be split or divided, etc. the MSE quoting a price within the band L1+15% may be awarded for full/ complete supply of total tendered value to MSE, considering the spirit of the Policy for enhancing Govt. Procurement from MSEs.

8.0 Where any Aggregator has been appointed by the Ministry of MSME, themselves quote on behalf of some MSE units, such offers will be considered as offers from MSE units and all such facilities would be extended to these also.

9.0 **Traders/ distributors/ sole agent/ Works Contract are excluded from the purview of the policy.**

10.0 To reduce transaction cost of doing business, Micro and Small Enterprises is to be facilitated by providing them tender sets free of cost, exempting Micro and Small Enterprises from payment of Earnest Money (EMD), adopting e-procurement to bring in transparency in tendering process. However, exemption from paying Performance Security / Performance Bank Guarantee is not covered under the Public Procurement policy.

11.0 MSEs may also be given relaxation in prior turnover and prior experience criteria during the tender process, subject to meeting of quality and technical specifications. However, there may be circumstances (like procurement of items related to public safety, health, critical security operations and equipment, etc.) where the vendor having prior experience may be preferred rather than giving orders to new entities.

12.0 Payment to the MSME vendors is to be made within 30 days from the date of receipt and acceptance of goods/ services.

13.0 In case Bidder is a Micro or Small Enterprise under the Micro, Small and Medium Enterprises Development Act, 2006, the Bidder is to be asked for submitting the following along with tender:

14.0 Ministry of MSME has notified criteria for classifying the enterprises as Micro, Small and Medium Enterprises as combination of investment in Plant & machinery or Equipment and Turnover. Mandatory registration in Udyam Registration Portal for all new and existing MSME has been prescribed. Accordingly, Micro and Small Enterprises (MSEs) shall be required to submit Udyam Registration Certificate for availing benefit.

15.0 RXIL (TReDS) PLATFORM

IREL is registered with RXIL (TReDS) platform. MSE bidders are requested to get registered with RXIL (TReDS) platform to avail the facility as per the GOI guidelines.

IREL (India) Limited is onboard with TReDS platform of M/s RXIL for facilitating Bill Discounting for MSME's.

As per DPE/7(4)/2007-Fin dt 21/08/2020, it is mandatory to get all the MSME vendors registered on the platform.

Vendors can get themselves registered at: <https://onboarding.rxil.in/customerapp/home>.

The registration fees of MSMEs on TReDS Platform is Free of Cost as per the new guidelines provided by SIDBI.

For any registration queries, vendors may please contact,

RXIL Relationship manager Mr. Satyajeet Jathar: +91 99201 00784/ +91 9004100784 **email:** satyajeet.jathar@rxil.in

RXIL Relationship manager Mr Kirti musale : +91 90048 17501 **email:** kirti.musale@rxil.in

IREL (India) Limited Unit Administrator Mr. V A Anil Kumar: +91 9443482644
email : purchase-red@irel.co.in

IREL (India) Limited Nodal Officer Mr. K.V.Ramakrishna: +918104997177 **email:** kramakrishna@irel.co.in

SECURITY DEPOSIT (SD), PERFORMANCE BANK GUARANTEE & RETENTION MONEY

1.0 SECURITY DEPOSIT (PERFORMANCE SECURITY) & PERFORMANCE BANK GUARANTEE

1.1 Security deposit (SD) shall be uniformly levied @ 5% of contract value (excluding Taxes) towards satisfactory completion of the order/ works as under:

a) For supply & service contract valued more than Rs.5 lakhs. Performance Security is to be furnished by a specified date (generally 14 (fourteen) days after notification of the award) and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier/ contractor, including warranty obligations/ defect liability period (DLP).

1.2 Submission of SD/PBG, if called for in the tender can also be paid through Insurance Surety Bonds' or 'account payee demand draft' or 'fixed deposit receipt from a Scheduled Commercial bank' or 'Bank Guarantee issued/ confirmed from any Scheduled Commercial Banks in India' or online payment to be confirmed sharing Unique Transaction Reference (UTR) to the tender inviting authority as called for in tender.

1.3 Bank Guarantees towards Bid Security/ Security Deposit/ PBG issued by Nationalised Banks/ Scheduled Commercial Banks (other than Cooperative Banks) only acceptable.

1.4 EMD/ Bid Security may be adjusted towards SD. However, if EMD is submitted in the form of Bank Guarantee, fresh Bank Guarantee in the prescribed format or demand draft/ bankers cheque is to be submitted towards SD.

1.5 The SD shall not bear any interest and is liable to be forfeited for unsatisfactory completion or on abandonment of the supply/ work order.

2.0 RETENTION MONEY

In contract, where payment is made on progressive billing of supply made/ work executed, 5% of the bill value is to be retained at the time of making payment towards rectification/ defective work/ supply made as retention money.

3.0 SECURITY DEPOSIT & RETENTION MONEY

The total SD and retention money together towards performance guarantee shall not exceed 10% of contract value. The performance security should be refunded to the supplier/ contractor without interest, after he duly performs and completes the contract in all respects but not later than 60(sixty) days of completion of all such obligations including the warranty under the contract/ 365 days beyond DLP.

4.0 REFUND OF SD & RETENTION MONEY

a) Before releasing SD or retention money in respect of supplies/works, a "No Dues Certificate" shall be issued by EIC/ OIC duly countersigned by Head of the department after ensuring that no amounts are recoverable from the supplier/ contractor.

b) EIC/OIC shall recommend release of SD and retention money after compliance by the contractor towards guarantee/ warranty/ performance guarantee & other related clauses as stipulated in the purchase/work order and on submission of formal claim by supplier/contractor.

c) On receipt of "no dues certificate" from EIC/OIC, SD or retention money may be refunded at the earliest, if the contractor is not liable to pay any money to IREL under any other contract.

5.0 **FORFEITURE OF SD & RETENTION MONEY**

The SD & retention money shall stand forfeited in favour of IREL, without any further notice to the contractor in the following circumstances:

- (i) In case of any failure whatsoever on the part of the Supplier/ Contractor at any time during performance of his part of the contract including the extended periods of contract, where notice is given and time for rectification allowed.
- (ii) If the Supplier/ contractor indulges at any time in any subletting/ subcontracting of any portion of the work without approval of IREL.

PRE-QUALIFICATION CRITERIA (POC)

1.0 The bidder should be experienced in having successfully executed similar Instrumentation System to any Public Sector Undertaking, Central/State Government or reputed private organizations.

2.0 The bidder shall provide documentary evidence viz. Work order, completion and satisfactory performance certificate for the minimum W.O values as follows.

a. Three similar completed works costing not less than the amount equal to Rs. 41.5 Lakhs.

or

b. Two similar completed works costing not less than the amount equal to Rs. 52 Lakhs.

or

c. One similar completed work costing not less than the amount equal to Rs.83 Lakhs.

Similar Instrumentation system means the work includes supply, erection and commissioning Installation of:

1) Field instruments- flow meter, Rotameter, etc.

2) Development of SCADA & PAC system NI LABVIEW platform at any chemical Industry with minimum 1000 IOs.

3.0 Average annual financial turnover during the last 3 years ending 31st March 2024 of the previous financial year should be at least Rs.31 Lakhs

4.0 The Bidder shall submit the Technical Datasheet of Supply items with make, model, dimensional details specification along with Techno-Commercial bid.

5.0 Site inspection mandatory. The Tendered shall submit site inspection certificate issued by IREL, RED along with the tender document (Technical Bid).

PART - I

TECHNO-COMMERCIAL BID

REQUIRED DOCUMENTS TO BE SUBMITTED ALONGWITH TECHNO-COMMERCIAL BID.

Sl. No.	Description	Up-loaded Yes/No
1	PROOF OF SUBMISSION OF EMD / VALID EXEMPTION CERTIFICATE (If Applicable).	
2	DOCUMENTS AS PER PRE-QUALIFICATION CRITERIA.	
3	DULY FILLED, SIGNED AND SEAL AFFIXED IREL TENDER DOCUMENTS (Techno-Commercial Bid) (Page 1 - 58).	
4	COPY OF GST & PAN CERTIFICATES.	
5	ANY OTHER DOCUMENTS AS PER TENDER CONDITIONS.	

SPECIAL CONDITIONS OF CONTRACT (SCOC)

BRIEF BACKGROUND

The Process automation and PLC, SCADA system was developed, commissioned and working in RED Heavies (REP-I), HLRE stream (REP -II) and SmGd stream (REP-I). The automation system is under AMC by the system Integrator. It is further proposed to install & extend the automation package for

- a) URP operation in complete closed loop circuit system by providing separate hardware and software in the process automation system. Provision for Instruments of the URP to communicate with the existing PAC and SCADA system installed at REP-II
- b) Upgrade the automation package for Y & Dy stream (SEP - Top floor) by incorporating it to the existing PAC -6 facility, in complete closed loop circuit system.

1.0 SCOPE OF WORK

Instrumentation and Automation package for URP + Y & Dy stream operation includes but not limited to

- 1.1 Supply, Erection, Commissioning and Performance Testing of Instrumentation & Automation package for Mixer settler and its connected pumps operations at Uranium Recovery Plant (URP).
- 1.2 Supply, Erection, Commissioning and Performance Testing of Instrumentation & Automation package for Y & Dy stream Mixer settler and its connected pumps operations, installed at Solvent Extraction plant (SEP).

2.0 DETAILS OF WORK

- 2.1 Supply of all hardware as mentioned in the Bill of material enclosed elsewhere in the document as per mentioned specification. Proper execution and completeness of the instrument work shall be bidder's responsibility.
- 2.2 Preparing as-built cable schedule documents, instruments hook- Up and Loop drawings etc.
- 2.3 Erection and calibration of the instruments supplied instruments. If the instrument is calibrated by the OEM, calibration certificate for each instruments/meters shall be handed over to EIC.
- 2.4 Supply, laying/fixing of FRP cable trays as per mentioned specification.
- 2.5 Supply, laying (as per mentioned specification) and termination of instrument cables.
- 2.6 Loop checking from PLC racks, marshalling to MCC racks, marshalling field instruments and instrument junction boxes etc.

3.0 PAC SYSTEM

- 3.1 PAC (Process automation and control) shall be designed for system solutions in the manufacturing and process automation such as Petrochemical/chemical/ Pharmaceutical/Steel/ Automotive industry.
- 3.2 The system shall be comprises of Central Processing Unit, Power Supply and Rack. It shall be installed and expanded in modular way. All modules shall be positioned freely next to the power supply plugged. The PAC shall coordinate over all plant as per technical details and to communicate lower-level Communication lines with different module.
- 3.3 The CPU shall be capable of processing all the new PROFINET function I-Device, shared device, IRT (Isochronous Real-Time) and user defined web pages. System shall be suitable for data-intensive task with high processing speed and deterministic response times. There shall be a wide range of module configuration available both for centralized configuration and distributed structure for future expansion.
- 3.4 The CPU shall enable new function to be integrated without further hardware investment, e.g. processing of quality data, user friendly diagnostics, and integration into high level MES (Manufacturing Execution System) solution or high speed communication via bus system. There shall be provision of storing complete project data including symbols and comment for easy service and maintenance.
Preferred Make: SEIMENS, Allen- Bradley, National Instrumentation, Invensys.

4.0 SCADA SYSTEM

- 4.1 **The SCADA** - system shall operate as stand-alone, autonomous system comprises of monitoring sensor, displaying data, output controls, activating alarms and logging information to facilitate and optimize the plant processes and ongoing operations etc. It shall be capable of polling, transmitting and receiving data, both analog and digital, at high rate of speed using secure digitizing protocols and error avoiding methods. The SCADA shall be capable of remote interrogating and re-configuration. Access shall be provided for remote viewing and control of screen, logos and files -via internet and LAN network- all with multi-level password security.
- 4.2 **SCADA Station-** The existing PAC-6 provision shall be used for Automation package for Y & Dy stream at SEP with appropriate modification/corrections in the existing SCADA or if required, rebuild new SCADA programme as per new requirement. The SCADA shall be configured for Operation Station (Client) also. The SCADA (Server Cum client) shall include – multitasking computer, a hard drive and a CD-ROM drive, along with a keyboard and mouse, a larger (as per data sheet) color monitor, a sound and graphic cards. An Ethernet LAN Network card also shall be included enabling network connection to any LAN hub. The Station shall be powered from 230-240V AC, 15A main connections with backup security provision.

5.0 SCADA FEATURES

- 5.1 The main computer shall run 32-bit multi-tasking monitoring software under Windows-XP or the latest higher operating system. Real-time monitoring software shall include a pulling function, a graphics user interface with screen customizing tools, on-line screen configuration capability with a setup tool bar, selectable data and alarm logging, graphical control/alarm setup utilities and toolbars, preconfigured status and diagnostic screen and provision for safe auto-shutdown on loss of mains power and subsequent depletion of UPS battery.
- 5.2 Any number of actions and alarm threshold shall be settable using graphics click and drag utilities, for activating any or all output form any or multiple analog thresholds or digital input conditions. A means to restrict alarm and control to one or more confirming sensor alarm threshold crossing shall be standardized. A numerical “communication reliability” index shall be generated and shall be usable in the same manner as any analog signal as any analog sensor signal, using preset threshold for activating alarm and controls. Sensors and digital status parameter causing alarm or control actions shall be shown graphical in real time, with the active control path highlighted in red for easy alarm source recognition.
- 5.3 The communication system shall be fast operating having sensor data updates and control execution not exceeding 500ms when system is normally loaded in typical operational configuration. A security features shall permit function-specific password to secure the various setup.
- 5.4 Initial setup and subsequent reconfigurations shall be possible anytime without interrupting ongoing monitoring, alarming and logging functions. Sensor alarm and/or service advisories shall be indicated on the screen in distinctive colors. Time delay, event sequencing, calendar overrides and other time related programing function shall be easy to setup and modify without interrupting ongoing monitoring /control process.

6.0 CLIENT COMPUTER OPERATOR STATION

- 6.1 The existing computer cabinet shall be used with new high end latest version computer. The supply of computer shall be under the scope of contractor.
- 6.2 The SCADA shall include software for client access, providing real time access to files, screens, logs, printout, controls etc. as are available. However, client shall not be permitted to change any setups or actions in the main processes.
- 6.3 Screen drawing tool pallet shall be included within the package, which shall include line, circle, ellipses, boxes, text, hot buttons, sliders, digital and analog` meter icons, dynamic bar, charts and graphics and shall be permit loading of bitmap files (Scanned drawing, photo graphs, logos).
- 6.4 Automatic report print out shall be executed on a present schedule, calendar date, work shift/or time of day basis. Selection of report print out format shall be encompass any available screen print out.

7.0 STANDARD SETUP AND DIAGNOSTIC SCREEN

A details summary of communication fault shall be viewable by right clicking on the specific card address. A features shall be included locking the computer communication on to any selected address, and similarly there shall be an automatic return to normal after reasonable duration. The scrollable screen displays every I/O sensor and tag name, along with type of I/O device, the communication address, on-line/off-line status, the engineering max/min and actual engineering values for each particular channels. Signal screen shall be printable.

8.0 DATA LOGGING TO HARD DRIVE FOR OFF-LINE VIEWING

Automatic analog and digital data logging to hard disc shall be at selectable frequency ranging from once every second to half hour. Each file shall be identified in the directory by starting date and time. To minimize file size, an option shall allow analog data logging only when triggered by percentage of value changes, with the change threshold settable independently for each sensor. Graphs and historical data for sensor or group of up to eight sensors shall be printable in color.

9.0 ALARM

Alarm shall be generated on set points and interlocks. If the process variables cross the set point and interlock failure shall be logged in SCADA with time and details and process data. Alarm shall be installed in Control cabin process wise.

10.0 ANNUNCIATOR

The existing Alarm annunciator shall be used with microprocessor based design, super bright LED facia window and programed sequence as per ISA standard throughout provision for troubleshooting and maintenance the communication between annunciator and system shall be through RS 232 cable.

11.0 COMMUNICATION

The communication between I/O controller and I/O- supervisor shall be through PROFINET. It shall be 100% Ethernet compactible as defined in IEEE standards. It shall provide application interface for exchanging I/O data, alarm and diagnostic and for transmitting data records and log book information. This shall provide real-time solution and the response time in the range of 5ms. Also this shall provide protocol definition for (i) Address resolution for field services, (ii) Cyclic transmission of IO data (RT), (iii) Acyclic transmission of alarm to be acknowledged and etc.

Make: SEIMENS, Allen-Bradley, National Instruments, Invensys

12.0 DETAILS OF CONTROL AND AUTOMATION

- 12.1 Control and Automation mechanism of whole system shall be base on 9.0(Operation sequence and Interlock) and 10.0(Set points) as stated. In the system there are flow meters and level instruments which shall provide Analog input to PLCs. Metering pump motor and mixer settler agitator motor shall give digital input to PLCs and also received digital output from PLCs.
- 12.2 The system shall have above I/O and shall be configured as per 9.0 and 10.0. Metering Pump motors (8 numbers) shall be provide with VFD for the speed control in accordance with the required flow rate measure by flow meters works in closed loop for the automatic controlling to the set flow rate.
- 12.3 All measuring instrument signal shall be shows through SCADA/HMI. There shall be facility for setting all level and flow rate set point through SCADA/HMI. The set point setting shall be flexible from 0-100% of measuring range. The system shall be having flexibility to increase and degrease the speed from 0-100% of measuring range through SCADA/HMI means.
- 12.3.1 All the 30 motors of six mixer settler for the URP operation shall be considered as one motor system. (All the 30 motors will be electrically interlocked in such a way that if any of the motor is OFF/Triped, all the 30 motors will be electrically isolated). The status of this unit shall be control (ON/OFF) by PLC system. There shall be facility in SCADA/HMI system to ON/OFF the system and run time visibility i.e blinking icon. There shall be facility of starting the group of motors in Auto-mode and Manual mode.

12.3.2 Similarly, All the motors of mixer settlers (stream wise) for the Y & Dy streams shall be considered as one motor system. (All the motors of mixer settlers (stream wise) will be electrically interlocked in such a way that if any of the motor is OFF/Tripped, all the motors of that particular stream will be electrically isolated). The status of this unit shall be control (ON/OFF) by PLC system. There shall be facility in SCADA/HMI system to ON/OFF the system and run time visibility i.e blinking icon. There shall be facility of starting the group of motors in Auto-mode and Manual mode.

12.4 Motor ON/OFF control shall be through PLC system. There shall be facility in SCADA/HMI system to ON/OFF the system and run time visibility i.e blinking icon. In case of failure of agitator motors and metering pump motor, there shall be facility for auto OFF of the entire system on Auto mode. In manual mode each motor can i.e metering pump motors and mixer settler motor (as single motor) can be manually operate separately.

The entire Automation package for Y & Dy stream at SEP Operation should have

- The automation system shall Auto / Manual facility.
- There shall be multi-screen facility for physical variable to monitor.
- Each measuring variable shall have facility to change set point in 0 – 100% of measuring range.
- Each variable shall have by pass facility in separate SDCADA or HMI screen.
- There shall be multilevel pass word for security.

13.0 ERP FACILITY

13.1 As per above details, the SCADA software employed shall be a server application with full access to the PAC control system. It should be able to communicate with the Server cum client station and should have provision for expansion with Web client if required.

13.2 There shall be facility storing process data to server computer and facility to retrieve. Desired data and values need to be exported from SCADA to a desired Data base (SQL Data Base) as required so as to integrating it directly with ERP system.

13.3 The development and implementation of the software will be based on the standard operation management ERP facility. The specification for ERP will be provided before the development of software PURCHASER side.

13.4 It should also contain options for trends of the desired data variables. The system should also have different levels of access rights like, administrator, user, guest etc.

14.0 LAYING OF CABLES

14.1 All cable shall be meggered and tested to ascertain any transit damages

14.2 All cables routes shall be carefully measured and cable cut to the required lengths. Leaving sufficient length for the final termination.

14.3 Cable shall have complete uncut length from one termination to another.

14.4 All cable shall be indicated close either termination point by cable no. as per cable schedule/junction Box schedule. PVC ferrule or tag plate shall be used and these identification shall be securely fastened to the cable.

14.5 While laying cables in ducts/trays/trenches/burying them care shall be taken to ensure low signal cable like alarm analyser, special cable, compensating cable etc. are separated from other power cables.

14.6 Installation of single pair and multicore cables:

14.6.1 Single pair or multicore cables shall be laid on ducts/trays/underground and shall be properly dressed with cable ties or aluminium tag. They shall be connected inside junction box or marshalling racks strictly according to the number system mentioned in the cable schedule.

14.6.2 All single pair or multicore cable shall cut as after the exact site measurements are taken between the ends. The cable drums shall be selected before cutting the length so as to avoid any wastage.

15.0 ERECTION

15.1 The Contractor shall provide competent Supervisors/Engineers & approved by EIC who shall be constantly at site and shall give his whole time to supervise the erection work at site. You are requested to collect passes for your workmen and supervisors by writing to us immediately the total strength of laborers' likely to be brought in for erection work.

- 15.2 You shall carry out the work under close supervision without any damage to the Company's existing setup. You should provide necessary Personnel Protective Equipment for workmen and display necessary signboards at site without fail.
- 15.3 You shall carry out the work as per the details given in the Technical Bid. The work shall be carried out as directed by the EIC and the materials brought inside the Company shall be recorded in a register to be maintained by the Contractor for the purpose, duly signed by the EIC/authorised IREL official and Security Department. Copies of the relevant pages shall be submitted along with bills of payment.

16.0 COMPLETE ERECTION & START-UP

- 16.1 The Contractor has to undertake erection of all materials and equipment supplied by him as per the approved drawings, specifications or bills of materials. This shall include the complete erection of equipment, system, structure etc. supplied under the Contract including aligning, levelling of equipment's, starting up and operating the Equipment's to meet specified performance guarantee and handing over the equipment's to the Purchaser.
- 16.2 On completion of the erection work, the Contractor shall promptly notify the Purchaser/EIC of the proposed date of the commencement of the start-up operations. The EIC will provide facilities such as fuel, power, water and utilities to the Contractor (free of cost) as required for operating the equipment during such period and during this period the equipment shall be operated under the supervision of the Contractor.
- 16.3 Should the start-up period extend beyond the scheduled period due to difficulties encountered with the equipment supplied under the Contract or due to inadequacy of the Contractor's staff or due to any incorrectness in erection work or due to any other reason for which the Contractor is responsible, the EIC will have the right to realize such amount from the Contractor as may be deemed reasonable by the EIC for the facilities provided by the EIC/Purchaser as mentioned in clause above for the extended period.

17.0 SUPPORTS TO THE INSTRUMENTS

- 17.1 This part of specification is applicable to all structural supports, angle and ladder trays.
- 17.2 The surface to be painted shall be thoroughly cleaned with wire brush/sand paper to remove all scales. After cleaning, the surface is painted with one coat of red oxide zinc chromate primer conforming to IS 2074 and allow to dry completely.
- 17.3 The primer coated surface is painted with one coat of paint to the color nearest to the final paint and allow to dry. The colour no. shall be specified by IS-5
- 17.4 Final second coating shall be with the paint of desired colour and shall be selected from IS-5

18.0 INSTALLATION OF INSTRUMENTS

- 18.1 All instruments shall be generally installed on supports and should be easily accessible.
- 18.2 All instruments and gauges shall be hooked up from pipes and tanks.

19.0 TESTING

- 19.1 Electrical cables for signals, power supply shall be checked for megger value and continuity before final termination and ferruling.
- 19.2 The testing shall be carried for individual instruments independently after installing after technical specification.
- 19.3 After individual testing of instruments, they shall be in line with automation system. The all system shall be functionally tested for sequence operation and inter lock and set points etc.

20.0 CALIBRATION

- 20.1 All instruments shall be calibrated strictly as per manufactures instruction prior to installation. The scope of calibration includes all field and control room instrument of all types namely, flow meter, level indicator and automation system.
- 20.2 Conversion from one unit to another for the purposes of calibration is not allowed in exceptional case with prior permission.

- 20.3 All flow meters shall be calibrated to the settings as per instrument data or specification sheets.
- 20.4 All field instrument shall be calibrated for 0%, 25%, 50%, 75% and 100% of range. These shall be set finally at require values indicated on the data sheet.

21.0 LOOP CHECKING

- 21.1 Loop checking shall be performed after calibration, interconnection and leak testing of signal lines is carried out for all instruments. Loop test are conducted to check the functional performance all elements comprising the loop, thereby ensuring proper inter connection and operation.
- 21.2 Loop testing for all analog closed and open loop shall be generally by simulating process condition for at least 0%, 25%, 50%,75% and 100% of full scale inputs and for binary loops by simulating the changeover conditions.
- 21.3 After the loop test complete the bidder shall connect back any termination and connections removed for loop checking.

22.0 PERFORMANCE TESTS AND PROVISIONAL ACCEPTANCE

- 22.1 The Contractor shall be responsible for carrying out performance tests on all equipment supplied by him and/or procured by the Purchaser/EIC as indicated in the Technical specifications covered in this Tender document, in the presence of the EIC/authorised IREL official. This responsibility shall rest with the Contractor regardless of whether the erection has been carried out by him or any other agency.
- 22.2 The Contractor shall inform the Purchaser/EIC of the proposed date of the commencement of the performance tests. The duration of the performance test shall be 4 hours continuous operation unless otherwise directed by the EIC.
- 22.3 During the performance test, the plant will be operated with the assistance of the Contractor. The EIC will provide fuel, power, utilities and other relevant supplies.
- 22.4 Should the continuous operation of the plant during the performance test be interrupted due to either difficulties with the plant and equipment supplied by the Contractor or the inadequacy of his staff or defects in case the erection has been carried out by the Contractor, then the performance test shall be restarted and run again for a continuous period of four (4) hours.
- 22.5 On the satisfactory completion of the performance test, the EIC will issue an Acceptance certificate on written request from the Supplier.
- 22.6 The date of the Acceptance certificate shall be considered to be the date of satisfactory completion of the performance test.

23.0 SCOPE OF IRE

- 23.1 Electric power, water, at single point on free of cost. Contract shall make their own arrangement for the safe use of the same.
- 23.2 It shall be the responsibility of the Contractor to provide and maintain the complete installation on the load side of the supply with due regard to the safety requirements at site. All cabling and installation shall comply in all respects with the appropriate statutory requirements given in the following:
 - i. Indian Electricity Act 1910 (as amended)
 - ii. Electricity Supply Act, 1948 (as amended)
 - iii. Indian Electricity Rules, 1956 (as amended)
 - iv. Central Electricity Regulation 2010 (as amended)

and shall be subject to approval of the Purchaser/EIC. Any expenses on the inspection required by an authorized inspector under the above regulations shall be borne by the Contractor.

- 23.3 The power supply will also be regulated as per terms and conditions of supply of the Kerala State Electricity Board.
- 23.4 The Purchaser/EIC will not be liable for any loss or damage to the Contractor's equipment as a result of variations in the voltage or frequency or interruptions in power supply. In the event of any power failure/ interruption / stoppage of power supply for a continuous period not exceeding 24 hours, the Contractor shall have no claim whatsoever against the Purchaser/EIC. For any power failure/stoppage resulting in

interruptions for continuous period exceeding 24 hours, the Contractor will be eligible only for reasonable extension of time and not for any compensation on this account.

23.5 The Purchaser/EIC will not be liable for any loss to the Contractor arising from interruption, failure or stoppage of works and any attendant delays consequent upon such interruptions, failure or stoppage of power supply or variations in voltage or frequency.

23.6 Electric Energy drawn by the Contractor for the works will be free of charge.

23.7 After completion of the works, the Contractor shall promptly dismantle the distribution and other facilities that he may have erected, at his own cost.

24.0 SCOPE OF CONTRACTOR

24.1 All Material/instruments/tool required for the execution and completion of work shall be under the scope of contractor.

24.2 Any material/works not mentioned in the order but required for the completion of the project shall be under the scope of contractor.

24.3 The Contractor shall provide necessary supervisory personnel, staff, skilled and unskilled labour, including electrical personnel with approved license as per Indian Electricity Rules 1956, CEA regulation 2010 as amended from time to time, to ensure that the whole of the erection work is completed in all respect within the period specified in the Contract. The Contractor shall ensure, when local laws require, the concerned employees obtain and hold certificates of competency for their work from the competent authority.

24.4 Unless otherwise provided in the Contract, the Contractor shall arrange all construction / erection equipment, welding equipment, erection and lifting tools and tackles, instruments and appliances required for the erection work, as well as equipment, tools and tackles for the transportation to site of erection of all equipment supplied under the Contract.

24.5 Tentative action plan of the scheduled date of supply of item, erection & commissioning, performance test for the above tender may be given within 30 days of receipt of order.

25.0 WORKING TIME

The normal time of work is between 0800Hrs to 1600 Hrs on any working day. The contractor may be allowed to work extra time as and when required but it should not exceed more than 1800Hrs with prior intimation and approval of Engineer-in-charge. The contractor has to take work necessary safety permit from the safety department before starting the work.

26.0 SITE VISIT

26.1 The tenderer or his representative shall be deemed to have inspected and examined the site and surroundings before submitting his tender and shall obtain the necessary information as to risks, contingencies and other circumstances which may influence or affect his tender.

26.2 The tenderer shall advised to know the labour practice followed at Eloor industrial belt before submitting the quote to avoid the confusion/conflict with the labour unions

26.3 Site inspection is mandatory. The tenderer shall submit Site inspection certificate issued by IREL, RED along with tender documents (Technical Bid).

27.0 COMMENCEMENT AND COMPLETION OF WORK

27.1 Qualified supervisor shall be present for supervising the work.

27.2 Work shall be commenced within 10 days from the acceptance of the work order or 10 days from the date handing over the site whichever is later. The date of acceptance of the work order is defined as the date of signing of the letter of acceptance of the order or 10 days from the date of dispatching of the order whichever is earlier.

27.3 The entire work as specified in the work order shall be completed within 300 days from the date of issue of work order. In case of any stoppage of work by IREL after commencement of work, the number of days stopped shall be extended for the completion of work.

28.0 PRE-BID MEETING

The pre bid meeting shall be conducted on 21/07/2025. The bidder's site visit and clarification should be completed before the pre bid meeting. After the pre bid meeting no technical clarification will be entertained.

29.0 RATE

- 29.1 Contractors shall advised to quote for entire work as per price schedule
- 29.2 The quantity mentioned in the price schedule is approximate.
- 29.3 The payment will paid for actual quantity of work carried out.
- 29.4 Rate should be quoted including the cost of material supplied by the contractor as per the price schedule.
- 29.5 All taxes, P &F, Fright charge etc. may be included in the price schedule.
- 29.6 Partial quote/incomplete quote shall not be considered for L1 status.

30.0 PAYMENT

- 30.1 Party is eligible for part payment.
- 30.2 70% of the supplied part shall be made within 30 days after submitting neat and clear bill, duly recommended by engineer-in-charge for the supplied items in the supply part (Part - A) of the Price schedule.
- 30.3 10% of the supply part (Part - A) and 80% for the erection part (Part - B) shall be made within 30 days after submitting neat and clear bill, duly recommended by engineer-in-charge after completion of erection part.
- 30.4 10% of the supply part and 10% of erection part shall be made within 30 days after submitting neat and clear bill, duly recommended by engineer-in-charge after commissioning and handing over the site to IREL.
- 30.5 Balance 10% shall be retained by IREL as retention money and it will be released after completion of the warranty/Gurantee period.
- 30.6 The contractor is responsible and liable to remit all statutory dues collected/included in the Price Schedule of the contract, to the Statutory Authorities without fail. IREL is not responsible for remittance of such tax collections.

31.0 SAFETY & HOUSEKEEPING

- 31.1 The supervisors and labours engaged by the contract for the work shall undergo half day safety training conducted by company safety department before the commencement of field work at IREL, RED.
- 31.2 It is the sole responsibility of contractor to carry out the work in an utmost safe manner.
- 31.3 Successful contractor will have to carry out the work as per the rules laid down by IREL Safety department.
- 31.4 The debris generated during the course of erection needs to be cleared then and there and the work spot shall be kept clean. If such waste is not removed, the expenses incurred for the waste removal will be deducted from the contractor bill amount.
- 31.5 All Activity in connection with work has to be carried out in consultation with Engineer In-charge of company

32.0 GUARANTEE

- 32.1 The entire Instrumentation & Automation package for URP Operation and Y & Dy streams operations shall be guaranteed for a period of 12 months for any damage/compliant for the items supplied and defective workmanship for the work executed, from the date of handing over the site to IREL. Any supplied items found complaint during the warranty period shall be replaced/repared immediately without hampering the regular operation of the working plants. If the replacement/repair happens to be time consuming nature, party shall arrange spare component on temporary basis for continue the regular operation of the plant. Party shall take back their spare component once the repaired component put in the system for normal operation.
- 32.2 Regarding the equipment's installed at site, the Supplier shall give the following guarantees in respect of the equipment supplied by him for a period of 12 (twelve) months after commissioning and performance testing or 18 (eighteen) months after the supply of the material whichever is later.

- 32.3 The Supplier shall be responsible for any defects that may be noticed therein notwithstanding that such defects could have been noticed at the time of inspection or any defects therein are found to have developed under proper use, arising from faulty materials, design or workmanship or fails to fulfill the performance testing or other requirement of the order and the Supplier shall remedy all such defects as aforesaid at his own cost. Purchaser, who shall state in writing in what respect the goods are faulty and further if in the opinion of the Purchaser the defects are of such a nature that it is necessary to replace or renew any defective stores, such replacement or renewal shall be made by Supplier forthwith without any extra costs to the Purchaser.
- 32.4 If the Supplier fail to rectify such defects to the full satisfaction of the Purchaser within a reasonable time, the Purchaser may reject and replace at the cost of the Supplier the whole or any part of the equipment as the case may be which is defective or fails to fulfill the requirements of the order. Such replacement at the cost of the Supplier shall be carried out by the Purchaser within a reasonable time with equipment of the same particulars or when the equipment conforming to the stipulated particulars are, in the opinion of the Purchaser, not readily procurable, such opinion being final, then with the nearest substitutes.

33.0 PERFORMANCE WARRANTY

- 33.1 The Contractor shall be responsible for erection of all the items supplied against the work order. All the filed instruments like flow meters/level transmitters shall be interconnected with the VFDs and drive motors (already available with IREL) in closed loop through SCADA and PAC system to get the desired flow output for each field instruments separately as desired by EIC & Production department.
- 33.2 The desired flow output for each field instruments separately shall be demonstrated to EIC & Production department through the closed loop system of field instruments-VFDs-Motors-SCADA - PAC system.
- 33.3 For commissioning and acceptance, the contract shall demonstrate the running of automation system in auto mode (Close loop condition) for 4 Hrs continuously in each day for 4 days. The entire system shall be warrantied for 1 year for the work man ship and the items supplied against the work order.

34.0 OWNERSHIP OF DRAWINGS AND SPECIFICATIONS

All drawings, technical specifications, manuals and other materials specification designs furnished by the IREL, or developed for IREL by the contractor shall be treated strictly as confidential property of the IREL. All such documents along with final as build drawings and circuit diagrams shall be returned to the IREL upon the completion of the work under this contract. The Contractor without the consent of the IREL shall retain no copies, duplications or Photostats of these documents. The Contractor shall not disclose or share any of such drawings, technical specifications, manuals and other materials specification designs furnished by the IREL, or developed for IREL by the contractor to any other third parties.

35.0 WORK IN OR AROUND AN OPERATING PLANT

When the work is being carried out in or around an operating plant, where the plant must run uninterrupted, the Contractor shall only work at specified places and times as mutually arranged between the Contractor and the IREL. The Contractor shall take sufficient care in moving his erection of instruments/ shifting equipment from one place to another in an operating plant so that they may not cause any damage to the property of the IREL, and, in the event of the Contractor's failure to do so, the cost of such damages, including eventual loss of working hours as estimated by the IREL, is to be borne by the Contractor.

36.0 RESPONSIBILITY FOR PERFORMANCE OF CONTRACT

The Supplier shall be entirely responsible for the performance of the contract in all respects in accordance with the terms and conditions as specified in the Contract. The Supplier shall not sublet, transfer or assign the contract without the written permission of the IREL. In case permission is given by the IREL, Supplier shall be liable to any loss or damage which the IREL may sustain in consequence or arising out of such subletting of the contract.

37.0 BILL OF QUANTITIES (BOQ)

Sl No	Item Description	Qty	Unit
PART - A			
01	Supply of PAC 9074/CRIO9067 as per attached technical specification Annexure -I-A.	02	Nos.
02	Supply of DI 32-9425 with accessories as per attached technical specification Annexure -I-B.	01	Nos.
03	Supply of DO 32-9476 with accessories as per attached technical specification Annexure -I-C.	01	Nos.
04	Supply of AI 16-9208 with accessories as per attached technical specification Annexure -I-D.	03	Nos.
05	Supply of AO 4-9265 with accessories as per attached technical specification Annexure -I-E.	09	Nos.
06	Supply of Magnetic Flow meter (Tantalum Electrode & SS Ground Ring) as per attached technical specification Annexure -I-F.	04	Nos.
07	Supply of Digital Rotameter as per attached technical specification Annexure -I-G.	04	Nos.
08	Supply of Radar Level Transmitter as per attached technical specification Annexure -I-H.	01	Nos.
09	Supply of 3KVA online UPS with battery as per attached technical specification Annexure -I-I.	01	Set
10	Supply of FRP cable Tray as per attached technical specification Annexure -I-J.	250	Mtr..
11	Supply of High End computer as per attached technical specification Annexure -I-K.	02	Nos.
12	Supply of Control Cable 24 C x 1Sq.mm. as per attached technical specification Annexure -I-L.	750	Mtr..
13	Supply of Control 12pair x 1Sq.mm. as per attached technical specification Annexure -I-L.	750	Mtr..
14	Supply of Control Cable 12 C x 1Sq.mm. as per attached technical specification Annexure -I-L.	300	Mtr.
15	Supply of Control 1pair x 1Sq.mm. as per attached technical specification Annexure -I-L.	300	Mtr.
16	Supply of Thermoplastic Junction box 300mm x 400mm x 170mm with transparent lid and gland knock outs as per attached technical specification Annexure -I-M.	04	Nos.
17	Supply of Thermoplastic Junction box 300mm x 300mm with transparent lid and gland knock outs as per attached technical specification Annexure -I-M.	05	Nos.
18	Supply of control relays with base (24V DC Coil).	40	Nos.
19	Supply of control relays with base (230V AC Coil)	40	Nos.
20	Supply of Miscellaneous items like JB's, Cable gland, crimping sockets, connector blocks, cable ties, fasteners etc. as per attached technical specification Annexure -I-N	01	Set.
21	Supply of PLC cum computer console as per attached technical specification Annexure -I-O.	01	Nos.
22	Supply of Computer chair as per attached technical specification Annexure -I-P.	02	Nos.
23	Supply of structural material, (includes supply of 4 inch flange and MS pipe 4inch 20cm length for radar instruments and angle for cable laying) and any other	300	Kg

	MS structural as per site requirements		
24	Supply and Installation of HDPE pipe, bend etc as per site requirement.	1	Lumpsum
PART - B			
25	Labour charge for Erection and commissioning of PAC 9074/CRIO9067.	02	Nos.
26	Labour charge for Erection and commissioning of DI 32-9425 with accessories.	01	Nos.
27	Labour charge for Erection and commissioning of DO 32-9476 with accessories.	01	Nos.
28	Labour charge for Erection and commissioning of AI 16-9208 with accessories.	03	Nos.
29	Labour charge for Erection and commissioning of AO 4-9265 with accessories.	09	Nos.
30	Labour charge for Erection and commissioning of Magnetic Flow meter (Tantalum Electrode & SS Ground Ring).	04	Nos.
31	Labour charge for Erection and commissioning of Digital Rotameter.	04	Nos.
32	Labour charge for Erection and commissioning of Radar Level Transmitter.	01	Nos.
33	Labour charge for Erection and commissioning of 3KVA online UPS with battery.	01	Set.
34	Labour charge for Laying/fixing/Erection of FRP cable Tray.	250	Mtr.
35	Labour charge for Laying, glanding and termination of Control Cable 24C x 1Sq.mm.	750	Mtr.
36	Labour charge for Laying, glanding and termination of Control Cable 12 pair x 1Sq.mm.	750	Mtr.
37	Labour charge for Laying, glanding and termination of Control Cable 12 C x 1Sq.mm.	300	Mtr.
38	Labour charge for Laying, glanding and termination of Control 1pair x 1Sq.mm.	300	Mtr.
39	Labour charge for Erection and commissioning of Thermoplastic Junction box 300mm x 400mm x 170mm with transparent lid and gland knock outs.	04	Nos.
40	Labour charge for Erection and commissioning of Thermoplastic Junction box 300mm x 300mm x 170mm with transparent lid and gland knock outs.	05	Nos.
41	Labour charge for Erection and commissioning of control relays with base (24V DC Coil).	40	Nos.
42	Labour charge for Erection and commissioning of control relays with base (230V AC Coil).	40	Nos.
43	Labour charge for Erection and commissioning of PLC Panel with computer console.	01	Nos.
44	Labour charge for Erection and commissioning of High End computer.	02	Nos.
45	Labour charge for Structure works	300	Kg
46	Labour charge for Installation of HDPE pipe , bend etc as per site requirement.	1	Lumpsum
47	Labour charge for Software programming, installation, performance testing, commissioning of parallel stream.	02	Lumpsum.

Note: Overall lowest of (Part A + Part B) will be considered as L1

Technical Specifications for PAC 9074-CRIO 9067

Processor

Type	Xilinx Zynq-7000, XC7Z020 All Programmable SoC
Architecture	ARM Cortex-A9
Speed	667 MHz
Cores	2
Flash reboot endurance ¹	100,000 cycles

Operating System

Supported operating system	NI Linux Real-Time (32-bit)
LabVIEW	LabVIEW 2014 or later, LabVIEW Real-Time Module 2014 or later, LabVIEW FPGA Module 2014 or later ²
Drivers software	NI-RIO Device Drivers 14.0 or later

Memory

Nonvolatile memory	1 GB
Volatile memory (DRAM)	512 MB

Network

Network interface	10Base-T, 100Base-T, 1000Base-T Ethernet
Compatibility	IEEE 802.3
Communication rates	10 Mb/s, 100 Mb/s, 1,000 Mb/s auto-negotiated
Maximum cabling distance	100 m/segment

Internal Real-Time Clock

Accuracy	5 ppm
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USB Ports

USB device port	
Type	USB 2.0 Hi-Speed, with standard B connector
Maximum data rate	480 Mb/s
USB host port	
Type	USB 2.0 Hi-Speed, with standard A connector
Maximum data rate	480 Mb/s

Reconfigurable FPGA

Type	Xilinx Zynq-7000, XC7Z020 All Programmable SoC
Number of logic cells	85,000
Number of flip-flops	106,400
Number of 6-input LUTs	53,200
Number of DSP slices (18 × 25 multipliers)	220
Available block RAM	4,480 kbits
Number of DMA channels	16
Number of logical interrupts	32

Typical battery life with power applied to power connector	10 years
Typical battery life in storage at 55 °C	5 years

Power Requirements

Voltage input range	9 V DC to 30 V DC
Reverse-voltage protection	30 V DC maximum
Maximum power input, with four C Series modules	25 W
Maximum power input, without C Series modules	17 W
Connector securement	
Securement type	Screw flanges provided
Torque for screw flanges	0.3 N · m to 0.4 N · m (2.7 lb · in. to 3.5 lb · in.)

Safety Voltages

Connect only voltages that are within the following limits:

V terminal to C terminal	30 V DC maximum, Measurement Category I
Temperature	
Operating	-20 °C to 55 °C
Storage	-40 °C to 85 °C
Humidity	
Operating	10% RH to 90% RH, noncondensing
Storage	5% RH to 95% RH, noncondensing
Ingress protection	IP40
Pollution Degree	2
Maximum altitude	5,000 m
Random	5 g RMS, 10 Hz to 500 Hz
Sinusoidal	5 g, 10 Hz to 500 Hz
Operating shock	30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

Technical Specification for DI-32 - 9425

Input Characteristics

Number of channels	32 digital input channels
Input type	Sinking
Digital logic levels	
OFF state	
Input voltage	≤ 5 V
Input current	≤ 150 μ A
ON state	
Input voltage	≥ 10 V
Input current	≥ 330 μ A
Hysteresis	
Input voltage	2 V minimum
Input current	60 μ A minimum
Input impedance	30 k Ω \pm 5%
8 channels	60 V DC maximum
32 channels	30 V DC maximum
Reverse-biased voltage	
8 channels	-60 V DC maximum
32 channels	-30 V DC maximum
Hold time ^[1]	0 μ s minimum
Setup time ^[2]	1 μ s minimum
Update/transfer time^[3]	
cRIO-9151 R Series Expansion chassis	8 μ s maximum
All other chassis	7 μ s maximum
MTBF	1,256,699 hours at 25 °C; Bellcore Issue 2, Method 1, Case 3, Limited Part Stress Method

Power Requirements

Power consumption from chassis	
Active mode	410 mW maximum
Sleep mode	0.5 mW maximum
Thermal dissipation (at 70 °C)	
Active mode	1.45 W maximum
Sleep mode	1 W maximum
Connector securement	
Securement type	Screw flanges provided
Torque for screw flanges	0.2 N · m (1.80 lb · in.)

NI-9425 with Spring Terminal Safety Voltages

Channel-to-COM	60 VDC
Isolation	
Channel-to-channel	None

Channel-to-earth ground		
Continuous	250 V RMS, Measurement Category II	
Withstand Up to 5,000 m	3,000 V RMS, verified by a 5 s dielectric withstand test	

NI-9425 with DSUB Safety Voltages

Channel-to-COM		60 V DC
Isolation		
Channel-to-channel		None
Channel-to-earth ground		
Continuous	60 V DC, Measurement Category I	
Withstand up to 2,000 m	1,000 V RMS verified by a 5 s dielectric withstand test	
Withstand Up to 5,000 m	500 V RMS, verified by a 5 s dielectric withstand test	

Environmental Characteristics

Temperature		
Operating		-40 °C to 70 °C
Storage		-40 °C to 85 °C
Humidity		
Operating		10% RH to 90% RH, noncondensing
Storage		5% RH to 95% RH, noncondensing
Ingress protection		IP40
Pollution Degree		2
Maximum altitude		2,000 m
Random		5 g RMS, 10 Hz to 500 Hz
Sinusoidal		5 g, 10 Hz to 500 Hz
Operating shock		30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

Technical Specification for DO 32 - 9476

Output Characteristics

Number of channels	32 digital output channels	
Output type	Sourcing	
Output Voltage	$V_{sup} - (I_0 \cdot R_0)$	
Power-on output state	Channels off	
External power supply voltage range (V_{sup} -to-COM)	6 V DC to 36 V DC	
Continuous output current (I_0) per channel (DO-to-COM)		
With 6 V DC to 30 V DC supply voltage		250 mA maximum
With 30 V DC to 36 V DC supply voltage		200 mA maximum
Output impedance (R_0)	0.3 Ω maximum	
Continuous overvoltage protection (V_{sup})	up to 40 V maximum	
Reversed-voltage protection	None	
Current limiting	None	
Short-circuit protection	Indefinitely protected when a channel is shorted to COM or to a voltage up to V_{sup}	
Trip current for one channel		
With all other channels at rated current		3 A typical
With all other channels off		5 A typical
V_{sup} current consumption	28 mA maximum	
Maximum update rate	40 μ s maximum	
Propagation delay	500 μ s maximum	
MTBF	1,091,425 hours at 25 °C; Bellcore Issue 2, Method 1, Case 3, Limited Part Stress Method	

NI-9476 with Spring Terminal Safety Voltages

V _{sup} -to-COM	40 V DC maximum	
DO	V _{COM} ≤ V _{DO} ≤ V _{sup}	
Isolation		
Channel-to-channel		None
Channel-to-earth ground		
Continuous	250 V RMS, Measurement Category II	
Withstand up to 5,000 m	3,000 V RMS, verified by a 5 s dielectric withstand test	

NI-9476 with DSUB Safety Voltages

V_{sup} -to-COM	40 V DC maximum	
DO	$V_{COM} \leq V_{DO} \leq V_{sup}$	

Isolation		
Channel-to-channel		None
Channel-to-earth ground		
Continuous	60 V DC, Measurement Category 1	
Withstand up to 2,000 m	1,000 V RMS, verified by a 5 s dielectric withstand test	

Environmental Characteristics

Temperature		
Operating		-40 °C to 70 °C
Storage		-40 °C to 85 °C
Humidity		
Operating		10% RH to 90% RH, noncondensing
Storage		5% RH to 95% RH, noncondensing
Ingress protection		IP40
Maximum altitude		
NI-9476 with spring terminal		5,000 m
NI-9476 with DSUB		2,000 m
Random		5 g RMS, 10 Hz to 500 Hz
Sinusoidal		5 g, 10 Hz to 500 Hz
Operating shock		30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

Power Requirements

Power consumption from chassis		
Active mode	250 mW maximum	
Sleep mode	25 μW maximum	
Thermal dissipation (at 70 °C)		
Active mode	1.5 W maximum	
Connector securement		
Securement type		Screw flanges provided
Torque for screw flanges		0.2 N · m (1.80 lb · in.)

Technical Specification for AI 16-9208

Input Characteristics

Number of channels	16 analog input channels
ADC resolution	24 bits
Type of ADC	Delta-Sigma
Sampling mode	Scanned
Input range	
Minimum	±21.5 mA
Typical	±22 mA
Conversion time (per channel)	
High-resolution mode	52 ms
High-speed mode	2 ms
Overvoltage protection, channel-to-COM	±30 V maximum on one channel at a time
Vsup pins	
Current	2 A maximum
Voltage	30 V maximum
Input impedance	85 Ω

Accuracy

Calibrated Measurement Conditions	Percent of Reading (Gain Error)	Percent of Range ^[1] (Offset Error)
Maximum (-40 °C to 70 °C)	±0.76%	±0.04%

Input noise

High-resolution mode	50 nA RMS
High-speed mode	200 nA RMS

Stability

Gain drift	20 ppm/°C
Offset drift	62 nA/°C

NMRR (High-resolution mode only)

50 Hz	66 dB
60 Hz	68 dB

Isolation

Channel-to-channel	None
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Channel-to-earth ground

Continuous	250 V RMS, Measurement Category II
Withstand, up to 4,000 m	3,000 V RMS, verified by a 5 s dielectric withstand test

Isolation	
Channel-to-channel	None
Channel-to-earth ground	
Continuous	60 V DC, Measurement Category I
Withstand, up to 2,000 m	1,000 VRMS, verified by a 5 s dielectric withstand test

Environmental Characteristics

Temperature	
Operating	-40 °C to 70 °C
Storage	-40 °C to 85 °C
Humidity	
Operating	10 % RH to 90 % RH, noncondensing
Storage	5 % RH to 95 % RH, noncondensing
Ingress protection	IP40
Pollution Degree	2
Maximum altitude	
NI-9208 with spring terminal	4,000 m
NI-9208 with DSUB	2,000 m
Shock and Vibration	
Operating vibration	
Random	5 g RMS, 10 Hz to 500 Hz
Sinusoidal	5 g, 10 Hz to 500 Hz
Operating shock	30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

Power Requirements

Power consumption from chassis	
Active mode	282 mW maximum
Sleep mode	25 µW maximum
Thermal dissipation (at 70 °C)	
Active mode	1.29 W maximum
Sleep mode	0.72 W maximum

Technical specification for AO 4 – 9265

Output Characteristics

Number of channels	4 analog output channels
DAC resolution	16 bits
Type of DAC	String
Power-on output state	0
Startup current	0.0 mA
Power-down current	0.0 mA
Full-scale output current	
Minimum	20.1 mA
Typical	20.6 mA
Maximum	21.0 mA
Output range	0 mA to 20 mA
Compliance voltage	12 VDC maximum
Maximum load	600 Ω

Accuracy

Measurement Conditions	Percent of Reading (Gain Error)	Percent of Range ¹ (OffsetError)
Calibrated, typical (25 °C, ± 5 °C)	0.11%	0.19%
Calibrated, maximum (-40 °C to 70 °C)	0.25%	0.4%
Uncalibrated ² , typical (25 °C, ± 5 °C)	0.35%	1.4%
Uncalibrated, maximum (-40 °C to 70 °C)	0.85%	2.5%

Stability

Gain drift	30 ppm/°C
Offset drift	45 ppm/°C
External power supply voltage range (Vsup)	9 VDC to 36 VDC
Protection (AO, Vsup)	
Overvoltage	± 40 V
Short-circuit	Indefinitely

Update Time

Number of Channels	Update Time for R Series Expansion Chassis	Update Time for Any Other Chassis
One	3.5 μ s	3 μ s

Number of Channels		Update Time for R Series Expansion Chassis	Update Time for Any OtherChassis
Two		6.5 μs	5 μs
Three		9 μs	7.5 μs
Four		12 μs	9.5 μs
Noise	600 nArms		
Crosstalk	-90 dB		
Settling time (to 1 LSB)			
Full-scale step			10 μs
1 mA step			5 μs
Glitch energy	Unmeasurable		
Monotonicity	16 bits		
DNL	1 LSB maximum		
INL	±16 LSB		
MTBF	1,014,487 hours at 25 °C; Bellcore Issue 6, Method 1, Case 3, Limited Part StressMethod		

Power Requirements

Power consumption from chassis			
Active mode		230 mW maximum	
Sleep mode		25 μW maximum	
Thermal dissipation (at 70 °C)			
Active mode		1.5 W maximum	
Sleep mode		10 mW maximum	
Power consumption from external power supply			
Active mode		1.4 W maximum	
Sleep mode		10 mW	
Temperature rating	90 °C, minimum		
Torque for screwterminals	0.5 N · m to 0.6 N · m (4.4 lb · in. to 5.3 lb · in.)		
Wires per screwterminal	One wire per screw terminal; two wires per screw terminal using a 2-wireferrule		
Ferrules	0.25 mm ² to 2.5 mm ²		
Spring-terminal wiring			
Gauge	0.2 mm ² to 2.5 mm ² (26 AWG to 14 AWG) copper conductor wire		
Wire strip length	10 mm (0.39 in.) of insulation stripped from the end		
Temperature rating	90 °C, minimum		
Torque for springterminals	0.5 N · m to 0.6 N · m (4.4 lb · in. to 5.3 lb · in.)		
Wires per springterminal	One wire per spring terminal; two wires per spring terminal using a2-wire ferrule		
Ferrules	0.25 mm ² to 2.5 mm ²		
Connector securement			
Securement type		Screw flanges provided	
Torque for screw flanges		0.2 N · m (1.80 lb · in.)	
Weight			

NI-9265 with screw terminal	165.5 (5.8 oz)
NI-9265 with spring terminal	153 g (5.4 oz)

Safety Voltages

Connect only voltages that are within the following limits.	
Channel-to-COM or Vsup-to-COM	±40 V maximum ³

Isolation Voltages

Channel-to-channel	None
Channel-to-earth ground, Vsup-to-earth ground, or COM-to-earth ground	
Continuous	
up to 2,000 m altitude	250 V RMS, Measurement Category II
up to 5,000 m altitude	60 V DC, Measurement Category I
Withstand	
up to 2,000 m altitude	2,300 V RMS, verified by a 5 s dielectric withstand test
up to 5,000 m altitude	1,000 V RMS, verified by a 5 s dielectric withstand test

Environmental Characteristics

Temperature	
Operating	-40 °C to 70 °C
Storage	-40 °C to 85 °C
Humidity	
Operating	10% RH to 90% RH, noncondensing
Storage	5% RH to 95% RH, noncondensing
Ingress protection	IP40
Pollution Degree	2
Maximum altitude	
NI-9265 with screw terminal	5,000 m
NI-9265 with spring terminal	5,000 m
Random	5 g RMS, 10 Hz to 500 Hz
Sinusoidal	5 g, 10 Hz to 500 Hz
Operating shock	30 g, 11 ms half sine; 50 g, 3 ms half sine; 18 shocks at 6 orientations

Technical Specification for Magnetic Flow Meter (0-600L/Hr.)

Transmitter	
Type	Smart Microprocessor based Remote Field Mounted
Excitation type	Pulsed DC
Display	Required, LCD backlit, alphanumeric
Range	User Configurable, 0 - 600 l/h
Accuracy	+/- 0.3%
Repeatability	0.1% of MV
Output 1	Analog Output, 4-20 mA DC, HART compatible
Output 2	Pulse Output
Maximum Load Impedance	<500 mOhms
Power Supply	110VAC, 50 Hz
Display Language	English
Display shall include	a) Actual flow rate; forward and reverse
	b) Flow units: m ³ /hr, configurable through front panel keypad
	c) Totalizer (non-volatile) with Reset facility
	d) Totalizer units: m ³ ; liters
	e) Status / error messages
	f) Empty Pipe Detection
Calibration facility	Required through front panel keypad and HART communicator
Auto zero Correction	Required
Configuration	Required through front panel keypad and HART communicator
Memory	Nonvolatile EEPROM
Self-Diagnostics	Required
Cable entry	1/2 NPTF
Housing	Die Cast Aluminium/SS box
Enclosure	Weather proof to IP 65
Mounting	On 2" Pipe
Mounting Accessories	Brackets, Fasteners, Washers and U clamps to be supplied
M.O.C. for Mounting Accessories	SS304
Sensor	
Fluid / State	Water, Ammonium Sulphate / Liquid
Pressure (Nor/Max)	3 / 7 in kg/cm ² g
Working Temp. (Nor/Max)	35 / 50 in deg.C
Flange to flange distance	200mm
End connection	Flanged, RF
Size/Pressure Rating	DN15 , PN40
Body-FlangeMaterial	SS304
Electrode Material	Tantalum
Liner Material	PTFE (2-3 mm thick) or better suited for the process fluid
Grounding/Earthing rings	Required, SS316
Housing	Die Cast Aluminium/SS box
Hydrostatic test pressure	1.5 times Maximum Working Pressure
Painting	As per manufacturer's standard

Maximum Distance between flowtube and transmitter	20 m
Armoured Interconnection cables for Coil Supply and Signal	20 meters to be supplied
Interchangeability of flow tube & transmitter	Required
Instrument details	To be punched on SS plate mounted on flow tube and transmitter
Make	Krohne, Emerson and Siemens
Model	Vendor to specify

Technical Specification for DIGITAL ROTAMETER (Variable Area Flowmeter)			
SI No	Section	Parameter	Requirement
1	Identification	Purpose	DM WATER AND SOLVENT
3	Sensor/Meter	Type	Metal Tube Variable area flow meter (Digital Rotameter)
4		Function	To measure and monitor the flow of solutions locally
5		Accuracy	Class 1.6% As per VDI/VDE code 3513
6		Meter Size	DN 15
7		End Connection	½" ASME
8		Indication	Via Magnetic Coupling
9		Indicator Housing	Die Cast Aluminium powder coated or Polyester coated Alumimum
10		Measuring Cone	PTFE
11		Flange - MOC	SS 316L
12		Float - MOC	PTFE
13		Maximum Operating Pressure	As per flange standard
14		Range ability	1:10
15		Scale	Analog Angular
16		Mounting	Vertical. Flow patterns from Bottom to Top
17		Installation Length	250 mm
18		Ingress Protection	IP 68
19		Power Supply	24 V DC -2 wire
20		Output	4-20 mA and HART
21		Area Clasification	Non Hazardous
22		Calibration	3 point
23		Flow range	0-550LPH
24		Cable Entry	M20 X 1.5
25	Environment	Max Pressure	10KG/ CM2
26		Operating temperature	Ambient
27		Relative Humidity	Less than 99 % non-condensing
28		Application	Indoor
29	General	Certificate	CE & IP68 Factory Calibrated Calibration Certificate Standard test & Guarantee Certificate
30		Make	Krohne, Emerson and Siemens
31		Model	Vendor to specify
32		Warranty/ Guarantee	One Year
33		Calibration	Variable Area Flow Meter (Digital Rotameter) should be factory calibrated and calibration certificate shall be provided along with the supply of item.

Technical Specification of Radar Level Transmitter			
Sl. No.	Section	Parameter	Requirement
1	Identification	TAG Number	Nitric acid - URP
2		Tank/Equipment	Nitrate Collection tank
3		Service	URP
4	Sensor & Transmitter	Radar Type	FMCW, W-Band, Continuous, Non-contact type
5		Function	Indicate locally and Transmit
6		Antenna	Rod type PTEF Lens without extension
7		Frequency	80 G Hz
8		Beam Angle	10° (Maximum)
9		Accuracy	+/- 3mm or better
10		Range	0.25 to 10 meter
11		Calibration	Through Push bottoms on Transmitter or HART
12		Antenna Material	PEEK, PTFE, SS316L or PFA
13		Antenna Encapsulation	PEEK/PVDF/PTFE/PFA
14		Meter Housing	Die Cast Aluminium powder coated or Polyester coated Aluminum
15		Process Seal	FKM/VITON/PTFE/PFA
16		Process Connection	3" Flange, ANSI 150 lb
17		Flange MOC	Stainless Steel with PEEK, PTFE or PFA Flaring
18		Wetted part lining	PEEK, PTFE or PFA
19		Ingress Protection	IP 67
20		Power Supply	Loop powered, 24 V DC
21		Output	4-20 mA and HART
22		Response time	Less than 3 sec
23		Display	LCD with backlit
24		Cable Entry	M20 X 1.5
25		Instrument Installation	Top Mounting
26		Application	Outdoor
27	Environment	Max. Temp at flange	150 Deg C
28		Operating temperature	Ambient
29		Relative Humidity	Less than 99 % non-condensing
30		Operating Pressure	Ambient
31	General	Certificate	CE & IP67
32		Make	Krohne, Emerson and Siemens
33		Model	Vendor to Specify
34		Warranty/ Guarantee	One Year
35		Calibration	Radar level transmitter sensor should be factory calibrated and calibration certificate shall be provided along with the supply of item.

Technical Specification for 3KVA online UPS with Battery bank

SI No.	Parameter Description	Specification Requirement
1	Type	Advance True Sine wave online UPS
2	Service	Control Room MSP
3	Rated Power in watt	2700 (min)
4	Rated Power in VA	3000
5	Main Output Voltage	240 V
6	Output Frequency	50 Hz \pm 1 %
7	Crest factor	3:1
8	Output wave	Pure Sine wave
9	Output Voltage Tolerance	\pm 1 % static \pm 5% at 100% Load step
10	Efficiency	94.4% (Full Load) 94.5% (half load)
11	Output Connection	Hard Wire 3-wire (PH N G)
12	Smart Communication	RS 232
13	Battery Mounting	External
14	Input Voltage	160-285 V AC
15	Input Frequency	40-70 Hz
16	Input Connection	Hard Wire 3-wire (PH N G)
17	Input Power factor	0.95-0.98
18	Max. Input Current	15A
19	Input Breaker Rating	Suitable
20	DC Voltage	72 OR 96 (Programmable type - optional)
21	No. of Battery	16 OR 20 (Optional)
22	Load Power Factor	0.5 Leading 0.5 Lagging
23	Harmonic Distortion	Less than 2 %
24	Output Overload Protection	60 Second at 125% 30 Second at 150%
25	Alarm	Battery Low UPS fault
26	Bypass Type	Built-in Static
27	Operating Temperature	0-40° C
28	Humidity	95% non-condensing
29	Ingress protection	IP20
30	Warranty	2 Year Minimum
31	Compliance	RoHS
32	Make	APC, KRYKARD, NUMERIC

Technical Specification for Fire retardant FRP ladder type cable Tray.

1. Material of Tray	:	Corrosion Resistant Fire Retardant Isophthalic Resin Various Types of Glass Fibres. Glass Content > 60%.
2. Length of Cable Tray	:	2000/3000mm.
3. Width of cable Tray	:	300 mm.
4. Depth of cable Tray	:	75 mm.
5. Thickness of Cable Tray	:	4 MM.
6. Side Runner	:	C-channel of 75x30x4mm.
7. Rungs	:	Square Hollow Tube Of 25x25x4 mm without Holes.
8. Spacing of Rungs	:	300 mm C/C.
9. Fixing of Rungs to Side runner	:	By ThermoPlastic Plug.
10. Support Span	:	1.5 Mtr.
11. Allowable Loading	:	For 300 MM Width 45 Kg/Mtr. (Load test certificate shall be provided along with supply else FRP tray shall be rejected)
12. Concentrated Load	:	70 Kg at Centre Of Span.(Load test certificate shall be provided along with supply else FRP tray shall be rejected)
13. Coupler plate	:	FRP Coupler Plate With SS-304 fasteners – (2 Coupler Plate with 8 set SS-304 fasteners shall Be Included for Each Cable Tray.
14. Colour	:	Grey.

Note: Load test certificate shall be (Allowable load and concentrated load) provided along with the supply of material.

Technical Specification for Desk top Personal computer

Desk top personal computer with i7, 12^h generation or higher processor, chipset mother board, 1TB SSD-SATA, 64GB RAM, 23 inch LED monitor, windows 10, 64 bit license. Key board and optical mouse, with integrated HD graphics card & LAN, communication cards. Make: HP/DELL/ACER.

Technical Specification for Instrumentation Control cable-

Cables: PVC insulated, PVC sheathed, Copper conductor, Armored, overall shielded control cable suitable for 1100 volts grade as per IS-1554 part - i, 1988.			
1	Conductor	Conductor	High conductivity electrolytic grade Annealed, Tinned Copper Conductor As Per IS- 8130, 1984/ BS 6360
2		Size	24 Pair x 1Sq mm, 12Pair x 1Sq mm, 12 Core x 1Sq mm & 1 Pair x 1 sq. mm
3		Resistance	As per IS: 8130/ 1984
4		Strands/Dia	7 strands/0.43mm
5		Persulphate Test	For Tinning as per IS: 10810 (Pt-1)/1984
		Material	Extruded PVC Type 'C' 85°C as per IS 58318/1984.
7		Thickness (Nom)	0.8 mm, As per IS: 1554 (Pt-1)/1988
8		Finish	Visual check of smoothness
9		Colours	As per IS: 1544(Pt-1)/1988
10		Colour Code	Red and Black for Pair Cable
11		Volume resistivity	For insulation resistance as per IS: 5831/1984
12		Tensile strength & Elongation	As per IS: 5831/1984
13		Thermal Stability	As per IS: 5831/1984
14		Material	Extruded Fire Retardant, Low Smoke, PVC type ST-2 having physical properties as per IS 5831
15		Oxygen Index	30 (min) at room temp.
16		Temperature Index	250 °C (min) at Oxygen Index of 21
17		Flammability Test	As per IEC 332 Part-1 and Part-3
		Corrosivity of combustion	pH-index > 4.3, Electrolytic Conductivity as per IEC 754-2
20		Thickness	As per IS: 1554 (Pt-1)/1988
22		Size/Dia	As per IS: 3975/1988
23		Tensile strength & Elongation	As per IS: 3975/1988
24		Resistivity	As per IS: 3975/1988
25		Coverage	100 %
26		Overlapping	25 %
27	Electrical Property	Maximum DC resistance	12.1 ohm/Km As per IS: 1554 (Pt-1)/1988
28		Min Insulation Resistance at 200C	100 M ohm/Km
29		Mutual Capacitance	BS 5308 Part-I
30		L/R Ratio of adjacent cores/pairs	BS 5308 Part-I
31		Drain Wire Resistance at 200 C	30 ohm/Km
32		High Voltage	1 KV for 1 Minute
33	General	Testing and Dimension of the Cables	IS: 1554 Part-I, BS 6469/BS 6346
34		Identification	Printing in numerals at an interval of 250 mm on each
35	Make	LAPP/HELUKABLE/TKD	

Technical Specification for Junction Box:-

There shall be junction box with accessories for tapping signal from field instruments. The box shall be thermoplastic polycarbonate modular panels enclosure with transparent hinged lid, shock proof, IP65 ingress protection, rust proof, dust proof water proof, corrosion proof and also have internally embedded gaskets confirmed to IP65(IEC 60529) with terminal blocks of suitable size and quantity of Phoenix /Elmak make fitted in c type din rail.. Make Hensel

Technical Specification for Cable Gland:-

All cable gland shall be thermoplastic poly carbonate and compression type. The cable gland shall be dust and water proof. The cable gland size shall be suitable for cable sizes mention in BOM. The cable gland shall be threaded, IP66 with one piece of sealing ring and lock nut.

Technical Specification for PLC cum operator computer console:-

The panel shall be fabricated with 2mm CRCA MS sheet. Panel shall be treated with 7 tank process and powder coated with SIMENS GRAY similar to RITTAL panel. Necessary cable entry cutout shall be provided from the top side. 4mm thick Acrylic sheet for mimc panel cover with seal for 22" LED monitor cabinet shall be provided. Annunciator window of appropriate size shall be provided above the monitor cabinet. There shall be 2 No. cooling fan and with air louvers provided. There shall be locking facility for each cabinet. There shall be two heavy duty lifting hook shall be provided at the top side to lifting/transporting purpose.

Technical Specification for Computer operator chair:-

Chair shall be Godrej make, revolving, with leg wheels, arm rest handle, black in colour

GENERAL CONDITIONS OF CONTRACT (GCOC)
INDEX

Sl. No.	Particulars
1	DEFINITIONS
2	SELLER TO INFORM
3	CONFLICT AND INTERPRETATION OF DOCUMENTS
4	COUNTRY OF ORIGIN
5	SCOPE OF CONTRACT
6	STANDARDS
7	INSTRUCTIONS, DIRECTION & CORRESPONDENCE, CONTRACT OBLIGATIONS
8	MODIFICATION IN CONTRACT
9	PATENT RIGHTS, LIABILITY & COMPLIANCE OF REGULATIONS
10	INSPECTION, TESTING & EXPEDITING
11	TIME SCHEDULE & PROGRESS REPORTING
12	DELIVERY & DOCUMENTS
13	TRANSIT RISK INSURANCE
14	TRANSPORTATION
15	INCIDENTAL SERVICES
16	SPARE PARTS, MAINTENANCE TOOLS, LUBRICANTS
17	GUARANTEE
18	PRICES
19	SUBLETTING AND ASSIGNMENT
20	TIME AS ESSENCE OF CONTRACT
21	DELAYS IN THE SELLER'S PERFORMANCE
22	LIQUIDATED DAMAGES FOR DELAYED DELIVERY
23	REJECTIONS, REMOVAL OF REJECTED EQUIPMENT & REPLACEMENT
24	TERMINATION FOR DEFAULT
25	FORCE MAJEURE
26	RESOLUTION OF DISPUTES/ ARBITRATION
27	TAXES & DUTIES
28	PERMITS & CERTIFICATES
29	FALL CLAUSE
30	LIMITATION OF LIABILITY
31	METHOD OF BLACKLISTING VENDORS
32	SECRECY
33	GENERAL
34	RISK PURCHASE CLAUSE

Definitions In this document, General Conditions of Contract (GCC-Goods), the following terms shall have the following respective meanings:

2.0 **SELLER TO INFORM:**
The Seller shall be deemed to have carefully examined all contract documents to his entire satisfaction. Any lack of information shall not in any way relieve the Seller of his responsibility to fulfil his obligation under the Contract.

3.0 **CONFLICT AND INTERPRETATION OF DOCUMENTS:**

3.1 Words imparting the singular only also include the plural and vice versa where the context requires so; words imparting persons include firms or corporations and vice versa where the context requires.

3.2 Word imparting masculine gender includes the feminine gender and vice versa where the context requires so.

3.3 The several documents forming the contract are to be taken as mutually explanatory of one another.

3.4 In case conflicting statements or directives occur among the contract documents, it shall be the responsibility of the successful bidder to notify IREL, with a copy sent concurrently to the OIC/EIC, immediately in writing and obtain instructions from IREL to eliminate the conflict.

3.5 The successful bidder shall notify IREL, with a copy sent concurrently to the EIC/OIC, promptly of any discrepancies, omissions or doubts it may have, regarding drawings, specifications or other documents. Noted or calculated dimensions shall always be followed

3.6 In the event of conflict between various documents forming the contract, the relevant terms and conditions of the purchase order shall prevail over those of all such other documents forming the contract and binding on the contractor and IREL.

3.7 In case of any conflict between the General Conditions of contract and the Special Conditions of the contract, the Special Conditions of contract shall prevail.

4.0 **Country of Origin:** For purposes of this Clause “Origin” means the place where the Goods were produced, or from which the services are supplied. Goods are produced when, through manufacturing, processing or substantial and major assembling of components, a commercially recognized new product results that is substantially different in basic characteristics or in purpose or utility from its components.

5.1 Scope of the CONTRACT shall be defined in the PURCHASE ORDER/CONTRACT specifications, drawings and Annexure thereto.

5.2 Completeness of the EQUIPMENT shall be the responsibility of the SELLER. Any equipment, fittings and accessories which may not be specifically mentioned in the specifications or drawings, but which are usual or necessary for the satisfactory functioning of the equipment (successful operation and functioning of the EQUIPMENT being SELLER's responsibility) shall be provided by SELLER without any extra cost.

5.3 The SELLER shall follow the best modern practices in the manufacture of high grade EQUIPMENT notwithstanding any omission in the specifications. The true intent and meaning of these documents is that SELLER shall in all respects, design, engineer, manufacture and supply the equipment in a thorough workmanlike manner and supply the same in prescribed time to the entire satisfaction of PURCHASER.

5.4 The SELLER shall furnish minimum three (03) copies in English language of Technical documents, final drawings, preservation instructions, operation and maintenance manuals, test certificates, spare parts catalogues for all equipment to the PURCHASER.

5.5 The documents once submitted by the SELLER shall be firm and final and not subject to subsequent changes. The SELLER shall be responsible for any loss to the PURCHASER/CONSULTANT consequent to furnishing of incorrect data/drawings.

5.6 All dimensions and weight should be in metric system.

5.7 All equipment to be supplied and work to be carried out under the CONTRACT shall conform to and comply with the provisions of relevant regulations/Acts (State Government or Central Government) as may be applicable to the type of equipment/work carried out and necessary certificates shall be furnished.

5.8 The Seller shall provide cross sectional drawings, wherever applicable, to identify the spare part numbers and their location. The size of bearings, their make and number shall be furnished by the SELLER.

5.9 Specifications, design and drawings issued to the SELLER along with NIT/RFQ and CONTRACT are not sold or given but loaned. These remain property of PURCHASER/CONSULTANT or its assigns and are subject to recall by PURCHASER/CONSULTANT. The SELLER and his employees shall not make use of the drawings,

specifications and technical information for any purpose at any time except for manufacture against the CONTRACT and shall not disclose the same to any person, firm or corporate body, without written permission of PURCHASER/CONSULTANT. All such details shall be kept confidential.
SELLER shall pack, protect, mark and arrange for despatch of EQUIPMENT as per instructions given in the CONTRACT.

STANDARDS

The GOODS supplied under the CONTRACT shall conform to the standards mentioned in the Technical Specifications, or such other standards which ensure equal or higher quality, and when no applicable standard is mentioned, to the authoritative standard appropriate to the GOODS' country of origin and such standards shall be the latest issued by the concerned institution.

Instructions, Direction & Correspondence

The materials described in the CONTRACT are to be supplied according to the standards, data sheets, tables, specifications and drawings attached thereto and/or enclosed with the CONTRACT, itself and according to all conditions, both general and specific enclosed with the contract, unless any or all of them have been modified or cancelled in writing as a whole or in part.

a. All instructions and orders to SELLER shall, excepting what is herein provided, be given by PURCHASER/CONSULTANT.

b. All the work shall be carried out under the direction of and to the satisfaction of PURCHASER/CONSULTANT.

c. All communications including technical/commercial clarifications and/or comments shall be addressed to CONSULTANT in quintuplicate with a copy to PURCHASER and shall always bear reference to the CONTRACT.

d. Invoices for payment against CONTRACT shall be addressed to PURCHASER. The CONTRACT number shall be shown on all invoices, communications, packing lists, containers and bills of lading, etc.

e. Invoice must contain seller's GST Registration number, PAN, Bank detail of supplier, GST Registration number of IREL Factory/ Office, HSN Code for products being supplied. Supplier must submit e-way bill, e-invoice from GSTM Portal.

Contract Obligations:

If after award of the contract, the Seller does not acknowledge the receipt of award or fails to furnish the performance guarantee within the prescribed time limit, the PURCHASER reserves the right to cancel the contract and apply all remedies available to him under the terms and conditions of this contract.

Once a contract is confirmed and signed, the terms and conditions contained therein shall take precedence over the Seller's bid and all previous correspondence.

Modification in Contract:

All modifications leading to changes in the CONTRACT with respect to technical and/or commercial aspects including terms of delivery, shall be considered valid only when accepted in writing by PURCHASER/CONSULTANT by issuing amendment to the CONTRACT. Issuance of acceptance or otherwise in such cases shall not be any ground for extension of agreed delivery date and also shall not affect the performance of contract in any manner except to the extent mutually agreed through a modification of contract.

PURCHASER/CONSULTANT shall not be bound by any printed conditions or provisions in the SELLER's Bid Forms or acknowledgment of CONTRACT, invoices, packing list and other documents which purport to impose any conditions at variance with or be supplemental to CONTRACT.

Patent Rights, Liability & Compliance of Regulations:

SELLER hereby warrants that the use or sale of the materials delivered hereunder will not infringe claims of any patent covering such material and SELLER agrees to be responsible for and to defend at his sole expense all suits and proceedings against PURCHASER based on any such alleged patent infringement and to pay all costs, expenses and damages which PURCHASER and/or CONSULTANT may have to pay or incur by reason of any such suit or proceedings.

The SELLER shall indemnify the PURCHASER against all third party claims of infringement of patent, trade mark or industrial design rights arising from use of the GOODS or any part thereof in the PURCHASER's country.

SELLER shall also protect and fully indemnify the PURCHASER from any claims from SELLER's workmen/employees or their heirs, dependants, representatives, etc. or from any other person/persons or bodies/companies etc. for any acts of commissions or omission while executing the CONTRACT.

SELLER shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the PURCHASER from any claims/penalties arising out of any infringements.

PURCHASER will promptly notify the SELLER in writing of any such claim, suit, action or proceeding coming to its attention, giving authority and all available information and assistance for the SELLER's defence of the same. If at any time the installation of the plant or any part thereof, or the use thereof in India for the purpose for which it is furnished or the sale of products produced therewith, is prevented or enjoyed because of patent infringement or claimed infringement, the SELLER shall promptly at his own expense, either procure for PURCHASER the rights to use and continue to use such plant or replace the same at his own expense with equally efficient non-infringing plant satisfactory under all requirements of the contract, so that the operation of PURCHASER's plant will not be unduly delayed or interrupted. If shipment of the plant, or any part thereof is prevented by attachment, injunction or otherwise, or in the course of transit from the SELLER's factory or other point of origin to the site of PURCHASER, as a result of any claim of patent infringement the SELLER shall, at his own cost and expense, promptly furnish and post the necessary bond or take such other steps as may be necessary to enable shipment to be made without delay. PURCHASER will have the right to retain counsel of its own choice to collaborate in the defence of any such claim, suit action or proceeding.

Inspection, Testing & Expediting

The PURCHASER or its representative shall have the right to inspect and/or to test the GOODS to confirm their conformity to the CONTRACT specifications. The special conditions of CONTRACT and/or the Technical Specifications shall specify what inspections and tests the PURCHASER requires and where they are to be conducted. The PURCHASER shall notify the SELLER in writing the identity of any representative(s) retained for these purposes.

The inspections and tests may be conducted on the premises of the SELLER or his sub-contractor(s), at point of DELIVERY and/or at the GOODS' final destination. When conducted on the premises of the SELLER or his sub-contractor (s), all reasonable facilities and assistance including access to the drawings and production data shall be furnished to the inspectors at no charge to the PURCHASER.

Should any inspected or tested GOODS fail to conform to the specifications, the PURCHASER may reject them and the SELLER shall either replace the rejected GOODS or make all alterations necessary to meet Specifications' requirements, free of cost to the PURCHASER.

The PURCHASER's right to inspect, test and where necessary reject the GOODS after the GOODS' arrival in the PURCHASER's country shall in no way be limited or waived by reason of the GOODS having previously been inspected, tested and passed by the PURCHASER, or their representative prior to the GOODS shipment from the country of origin.

The INSPECTOR shall follow the progress of the manufacture of the GOODS under the CONTRACT to ensure that the requirements outlined in the CONTRACT are not being deviated with respect to schedule and quality.

SELLER shall allow the INSPECTOR to visit, during working hours, the workshops relevant for execution of the CONTRACT during the entire period of CONTRACT validity.

In order to enable PURCHASER's representatives to carryout the inspection in time, SELLER shall notify PURCHASER 15 days before assembly, testing and packing of main EQUIPMENT. If requested, SELLER shall assist PURCHASER's representatives in getting visas in the shortest possible time (applicable only in case of foreign order).

SELLER shall place at the disposal of the INSPECTOR, free of charge, all tools, instruments, and other apparatus necessary for the inspection and/or testing of the GOODS. The INSPECTOR is entitled to prohibit the use and dispatch of GOODS and/or materials which have failed to comply with the characteristics required for the GOODS during tests and inspections.

SELLER shall advise in writing of any delay in the inspection program at the earliest, describing in detail the reasons for delay and the proposed corrective action.

ALL TESTS and trials in general, including those to be carried out for materials not manufactured by SELLER shall be witnessed by the INSPECTOR. Therefore, SELLER shall confirm to PURCHASER by fax or e-mail about the exact date of inspection with at least 30 days notice. SELLER shall specify the GOODS and quantities ready for testing and indicate whether a preliminary or final test is to be carried out.

If on receipt of this notice, should PURCHASER waive the right to witness the test, timely information will be given accordingly.

Any and all expenses incurred in connection with tests, preparation of reports and analysis made by qualified laboratories, necessary technical documents, testing documents and drawings shall be at SELLER's cost. The technical documents shall include the reference and numbers of the standards used in the construction and, wherever deemed practical by the INSPECTOR, copy of such standards.

Nothing in Article-10 shall in any way release the SELLER from any warranty or other obligations under this CONTRACT.

Arrangements for all inspections required by Indian Statutory Authorities and as specified in technical specifications shall be made by SELLER.

Inspection & Rejection of Materials by consignees:

When materials are rejected by the consignee, the supplier shall be intimated with the details of such rejected materials, as well as the reasons for their rejection, also giving location where such materials are lying at the risk and cost of the supplier. The supplier will be called upon either to remove the materials or to give instructions as to their disposal within 14 days and in the case of dangerous, infected and perishable materials within 48 hours, failing which the consignee will either return the materials to the SELLER freight to pay or otherwise dispose them off at the SELLER's risk and cost. The PURCHASER shall also be entitled to recover handling and storage charges for the period, during which the rejected materials are not removed @ 5% of the value of materials for each month or part of a month till the rejected materials are finally disposed off.

Time Schedule & Progress Reporting

Together with the Contract confirmation, SELLER shall submit to PURCHASER, his time schedule regarding the documentation, manufacture, testing, supply, erection and commissioning of the GOODS.

- Signature and seal of the contractor

SELLER'S expense in which event SELLER shall, without cost to PURCHASER and as promptly as possible, furnish and install proper materials. Repaired or replaced materials shall be similarly guaranteed by the SELLER for a period of no less than twelve (12) months from the date of replacement/repair.

In the event that the materials supplied do not meet the specifications and/or not in accordance with the drawings, data sheets or the terms of the Contract and rectification is required at site, PURCHASER shall notify the SELLER giving full details of differences. The SELLER shall attend the site within seven (7) days of receipt of such notice to meet and agree with representatives of PURCHASER, for taking the action required to correct the deficiency. Should the SELLER fail to attend meeting at Site within the time specified above, PURCHASER shall immediately rectify the work/ materials and SELLER shall reimburse PURCHASER all costs and expenses incurred in connection with such trouble or defect.

PERFORMANCE GUARANTEE OF EQUIPMENT

SELLER shall guarantee that the performance of the EQUIPMENT supplied under the CONTRACT shall be strictly in conformity with the specifications and shall perform the functions specified under the CONTRACT.

If the SELLER fails to prove the guaranteed performance of the EQUIPMENT set forth in the specification, the SELLER shall investigate the causes and carry out necessary rectifications/modifications to achieve the guaranteed performance. In case the SELLER fails to do so within a reasonable period, the SELLER shall replace the EQUIPMENT and prove guaranteed performance of the new equipment without any extra cost to PURCHASER.

If the SELLER fails to prove the guarantee within a reasonable period, PURCHASER/CONSULTANT shall have the option to take over the EQUIPMENT and rectify, if possible, the EQUIPMENT to fulfil the guarantees and/or to make necessary additions to make up the deficiency at Seller's risk and cost. All expenditure incurred by the PURCHASER/CONSULTANT in this regard shall be to SELLER's account.

Prices:

Prices charged by the SELLER for Goods delivered and services performed under the CONTRACT shall not, with the exception of any price adjustments authorized by the Contract vary from the prices quoted by the SELLER in his bid. The price indicated in the Purchase Order is firm and not subject to alteration on any account unless specified otherwise in the terms and conditions of Purchase Order. However, in case of delayed delivery, price reduction clause shall apply.

Subletting and Assignment:

The SELLER shall not without previous consent in writing of the PURCHASER, sublet, transfer or assign the contract or any part thereof or interest therein or benefit or advantage thereof in any manner whatsoever. Provided, nevertheless, that any such consent shall not relieve the SELLER from any obligation, duty or responsibility under the contract.

Time as Essence of Contract:

The time and date of delivery/completion of the GOODS/SERVICES as stipulated in the Contract shall be deemed to be the essence of the Contract.

Delays in The Seller's Performance:

If the specified delivery schedule is not adhered to or the progress of manufacture or supply of the items is not satisfactory or is not in accordance with the progress schedule, the PURCHASER has the right to:

- i) hire for period of delay from elsewhere goods which in PURCHASER's opinion will meet the same purpose as the goods which are delayed and SELLER shall be liable without limitation for the hire charges;
- Or
- ii) i) cancel the CONTRACT in whole or in part without liability for cancellation charges. In that event, PURCHASER may procure from elsewhere goods which PURCHASER's opinion would meet the same purpose as the goods for which CONTRACT is cancelled and SELLER shall be liable without limitations for the difference between the cost of such substitution and the price set forth in the CONTRACT for the goods involved; or
iii) hire the substitute goods vide (i) above and if the ordered goods continue to remain undelivered thereafter, cancel the order in part or in full vide (ii) above.

Any un-excusable delay by the SELLER or his subcontractor shall render the SELLER liable, without prejudice to any other terms of the Contract, to any or all of the following sanctions: forfeiture of Contract performance guarantee, imposition of Liquidated Damages for delay in delivery, termination of the contract for default and purchase from another source at the risk and cost of the SELLER.

Liquidated Damages Schedule for Delayed Delivery Subject to Article -25, if the SELLER fails to deliver any or all of the GOODS or performance the services within the time period (s) specified in the CONTRACT, the PURCHASER shall, without prejudice to his other remedies under the CONTRACT, deduct from the CONTRACT PRICE, a sum calculated on the basis of the CONTRACT PRICE, including subsequent modifications.

Deductions shall apply as per following formula:

A sum equivalent to 0.5 (Half) per cent of the prices of any portion of stores delivered late, for each week or part thereof of delay. The total damages shall not exceed 10 (Ten) percent of the value of delayed goods. The LD cannot exceed the amount stipulated in the contract.

In case of delay in delivery on the part of SELLER, the invoice/document value shall be reduced proportionately for the delay and payment shall be released accordingly.

In the event the invoice value is not reduced proportionately for the delay, the PURCHASER may deduct the amount so payable by SELLER, from any amount falling due to the SELLER or by recovery against the Performance Guarantee. Both seller and PURCHASER agree that the above percentages of price reduction are genuine pre estimates of the loss/damage which the PURCHASER would have suffered on account of delay/breach on the part of the SELLER and the said amount will be payable on demand without there being any proof of the actual loss/or damage caused by such breach/delay. A decision of the PURCHASER in the matter of applicability of price reduction shall be final and binding.

Rejections, Removal of Rejected Equipment & Replacement

Preliminary inspection at SELLER's works by INSPECTOR shall not prejudice PURCHASER's/ CONSULTANT's claim for rejection of the EQUIPMENT on final inspection at SITE or claims under warranty provisions.

If the EQUIPMENTS are not of specification or fail to perform specified functions or are otherwise not satisfactory the PURCHASER/CONSULTANT shall be entitled to reject the EQUIPMENT/MATERIAL or part thereof and ask free replacement within reasonable time failing which obtain his requirements from elsewhere at SELLER's cost and risk.

Nothing in this clause shall be deemed to deprive the PURCHASER AND/OR AFFECT ANY rights under the Contract which it may otherwise have in respect of such defects or deficiencies or in any way relieve the SELLER of his obligations under the Contract.

EQUIPMENT rejected by the PURCHASER/ CONSULTANT shall be removed by the Seller at his cost within 14 days of notice after repaying the amounts received against the SUPPLY. The PURCHASER shall in no way be responsible for any deterioration or damage to the EQUIPMENT under any circumstances whatsoever.

In case of rejection of EQUIPMENT, PURCHASER shall have the right to recover the amounts, if any, from any of CONTRACTOR'S invoices pending with PURCHASER or by alternative method(s).

Termination for Default

In the event that the SELLER commits a breach of the provisions of this CONTRACT and/or fails to perform any of its obligations under this CONTRACT including but not limited to failing to deliver any or all of the GOODS within the time period (s) specified in the CONTRACT, the SELLER shall be said to have committed a default of the provisions of this CONTRACT. In the event that such default is not cured by the SELLER within 30 days of a notice issued by the PURCHASER of such default, the PURCHASER shall be entitled to terminate this CONTRACT forthwith. The PURCHASER may, at its sole discretion, extend the time for curing the default by the SELLER beyond 30 days. The PURCHASER may, without prejudice to any other remedy for breach of CONTRACT, by written notice of default sent to the SELLER, terminate the CONTRACT in whole or in part:

A) If the SELLER fails to deliver any or all of the GOODS within the time period(s) specified in the CONTRACT; or

B) If the SELLER fails to perform any other obligation(s) under the CONTRACT, and

C) If the SELLER, in either of the above circumstances, does not cure his failure within a period of 30 days (or such longer period as the PURCHASER may authorize in writing) after receipt of the default notice from the PURCHASER

In the event the PURCHASER terminates the CONTRACT in whole or in part, pursuant to Article 24.1.1 the PURCHASER may procure, upon such terms and in such manner as it deems appropriate, goods similar to those undelivered and the SELLER shall be liable to the PURCHASER for any excess costs for such similar GOODS. However, the SELLER shall continue performance of the CONTRACT to the extent not terminated.

In case of termination of CONTRACT herein set forth (under clause 24) except under conditions of Force Majeure and termination after expiry of contract, the VENDOR shall be blacklisted/ Debarred as per prevailing guidelines.

Termination for Insolvency

The PURCHASER, may at any time, terminate the CONTRACT by giving written notice to the SELLER, without compensation to the SELLER, if the SELLER becomes bankrupt or otherwise insolvent, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the PURCHASER.

Page 49 of 58

- 31.2 Further the competent authority may blacklist the bidder, if the bidder changes bid (either techno-commercial and / or price) or withdraw his bid after receipt of the same and during the validity period of bid.
- 31.3 Further, the vendor (SELLER) shall be banned from doing any business with the PURCHASER, indefinitely or for such period as may be determined by the PURCHASER at its sole discretion, in case of :
- a. If security considerations including question of loyalty to the state so warrant.
- b. If the proprietor, partner, Director's representative of the SELLER is convicted by a court of law following prosecution for any offences including offences relating to business commercial dealings.
- c. If there is strong justification, as determined by the PURCHASER at its sole discretion, for believing that the proprietor or employee or representative of the SELLER has been guilty of malpractice such as bribery, corruption, fraud, substitution of tenders, interpolation, misrepresentation, evasion or habitual default in payment of any tax levied by law, etc.
- 31.4 An order for ban/ suspension passed for a certain specified period shall be deemed to have been automatically revoked on expiry of that specified period and it will not be necessary to issue a specific formal order of revocation, except that an order of suspension/ban passed on account of doubtful loyalty or security consideration shall continue to remain in force until it is specifically revoked in writing.
- 31.5 An order of ban on grounds of conviction by Court of Law may be revoked if, in respect of the same facts, the SELLER has been wholly acquitted by a court of law.
- 32.0 **Secrecy**
- The SELLER shall not at any time during the pendency of the contract or thereafter disclose any information furnished to them by PURCHASER or any drawings, designs, reports and other documents and information prepared by the Contractor for this contract, without the prior written approval of PURCHASER except in so far as such disclosure is necessary for the performance of the Contractor's work and service hereunder.
33. **General**
- 33.1 In the event that terms and conditions stipulated in the General Conditions of Contract should deviate from terms and conditions stipulated in the Contract, the latter shall prevail. Any specific Terms / Conditions mentioned in PO will supersede this GCC.
- 33.2 Losses due to non-compliance of Instructions: Losses or damages occurring to the PURCHASER owing to the SELLER's failure to adhere to any of the instructions given by the PURCHASER/CONSULTANT in connection with the contract execution shall be recoverable from the SELLER.
- 33.3 Recovery of sums due: All costs, damages or expenses which the PURCHASER/CONSULTANT may have paid, for which under the contract, SELLER is liable, may be recovered by the PURCHASER (he is hereby irrevocably authorized to do so) from any money due to or becoming due to the SELLER under this Contract or other Contracts and/or may be recovered by action at law or otherwise. If the same due to the SELLER be not sufficient to recover the recoverable amount, the SELLER shall pay to the PURCHASER, on demand, the balance amount.
- 33.4 Payments, etc. not to affect rights of the PURCHASER: No sum paid on account by the PURCHASER nor any extension of the date for completion granted by the PURCHASER shall affect or prejudice the rights of the PURCHASER against the SELLER or relieve the SELLER of his obligation for the due fulfillment of the CONTRACT.
- 33.5 Cut-off Dates : No claims or correspondence on this Contract shall be entertained by the PURCHASER/Consultant after 90 days after expiry of the performance guarantee (from the date of final extension, if any).
- 33.6 Paragraph heading: The paragraph heading in these conditions shall not affect the construction thereof
- 34.0 **RISK PURCHASE CLAUSE**
- After award of the contract, if the tenderer fails to execute the work as per tender or at any time repudiates the order, IREL (India) Limited has the right to forfeit and invoke the security deposit and execute the order from other agencies at the risk and cost of the tenderer. The cost difference between the alternative arrangements and total contract value will be recovered from the tenderer along with other incidental charges. In case of execution of order through alternative sources and if price is lower, no benefit on this account will be passed on to the tenderer.

"ETHICS IN TENDERING & OTHER BUSINESS DEALINGS"

Dear Sir,

IREL (India) LIMITED, a Government of India undertaking under the administrative control of Department of Atomic Energy is doing its business as per the rules and regulation of the Public Sector Undertaking and other statutory agencies. The business is done in an ethical, rational & impartial manner with good corporate governance.

In our endeavour to be more transparent in our dealings and to support our ideology all Vendors, Customers and Business Partners are requested not to provide any gift and / or inducement to any of our employees for securing / being granted favour in dealings with our Company. In assurance of your commitment to the aforesaid, it will be highly appreciated if you fill up, sign and abide by the attached undertakings.

Report of any gifts and / or inducements sought by any employee of the company should be immediately reported to any one of the following:

Chairman & Managing Director IREL (India) Limited 1207, V.S. Marg, Prabhadevi Mumbai 400 028. Ph: 022-24225778 E-mail: cmd@irel.co.in	Chief Vigilance Officer IREL (India) Limited 1207, V.S. Marg, Prabhadevi Mumbai 400 028. Ph: 022-24221068 E-mail: cvo@irel.co.in
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We assure you that complaints if any made by you on the subject will be kept confidential and fair investigation will be conducted and appropriate action will be taken. Similarly, we accept your commitment to the undertaking and its violation will have consequences as per prevailing rule of the Company.

Thanking you,

For IREL (India) Limited

Name -----

Designation -----

Date:

आईआरईएल (इंडिया) लिमिटेड IREL (India) Limited

रेअरअर्थ्सप्रभाग Rare Earths Division

TECHNICAL DEVIATION STATEMENT FORM

TENDER NO:

Name of Work:

The bidder has to quote as per technical specification and requirement of the bid. No deviation is expected. However in case of any deviation, the same has to be recorded clearly in the technical deviation statement form.

The following are the particulars of deviations from the requirements of the Tender specifications.

CLAUSE	DEVIATION (Including Justification)	REMARKS

Signature & Seal of the Tenderer

Dated:

Note:

- where there is no deviation, the statement should be returned duly signed with an endorsement indicating 'No deviations'. If not endorsed, it will be considered as 'No deviation'.
- The technical specifications furnished in the Tender document shall prevail over those of any other document forming a part of our Tender, except only to the extent of deviations furnished in the statement.

UNDERTAKING TO BE SUBMITTED BY BIDDERS FOR ADOPTING ETHICAL PRACTICES

Date:

IREL (India) Limited
1207, V.S. Marg, Prabhadevi
Mumbai 400 028.

I / We am / are a Vendor / Customer of IREL(India) Limited
(now onwards to be referred as Company).

I / We agree and undertake:

Not to provide any gift and / or inducement to any employee of the Company in connection with securing /
being granted favour (s) in my / our dealings with the Corporate office of the company and / or its any field
units namely MK, Chavara, OSCOM, RED & IRERC.

To immediately report any gift and / or inducement sought by any employee of the Company granting
favour(s) to me / us in my / our dealings with the Company and / or its field units.

Signature.....

Name.....

Title.....

Name of the Company and Address (with Seal).....

IREL Bank Details

Name of Bank	State Bank of India, Udyogamandal Branch, Udyogamandal
Account Type	Current Account
Name of Account holder	IREL(India) Limited
Account Number	57017844321
IFSC Code	SBIN0070158
MICR Code	682002926

Details of payment to be uploaded as attachment during tender submission and the same shall be e-mailed to:
purchase-red@irel.co.in

Bidders (Pl. Provide the details):

- 1. Name of the Bank :**
-
- 2. Account Type :**
- 3. Account Number :**
- 4. IFSC Code :**

VENDOR UP-DATION DETAILS			
SI #	Organisation Details		
1	Name		
2	Address Type (Sales office address / Office Address / warehouse Address / Factory Address)		
	Building /House Number		
	Area/Street Name		
	City		
	State		
	Pin Code		
	Contact Details	Ph No:	
		Mobile No.	
		Email:	
3	Vendor Type (Domestic / Import)		
4	Ownership Information (Private Limited Company/ One Person Company/ Limited Liability Partnership/ Partnership Firm / Proprietorship/ Co-Operative Society/ Trust/ Others).		
5	Nature Of Business (Manufacturer/ Dealer/ Trader/ Distributor/ Stockiest/ Channel Partner/ Indian Sales Office/ Subsidiary of Registered foreign supplier/ Indian Agents/ Service Provider)		
6	Whether Approved By Any Central Government/State Government/ Public Sector Undertakings /Reputed Private Organisations for similar items, for which registration is sought.		
7	PAN No.	Copy of the same may be attached.	
8	GSTIN ID		
9	Audited copies of P&L for the last three FY		
10	Valid MSE Udyam registration certificate, if any.	Yes	No
11	MSE ownership details.		
12	ISO Certification if any		
13	Registered in GEM Portal	Yes	No
14	MSE to confirm if they are registered from TReDs platform	Yes	No
15	Whether supplier/Service Provider is a Start- Up Enterprise. If yes provide the details.		
16	Whether she Company is under Litigation/Arbitration cases during last 5	Yes	No

	years?		
17	Whether company has been delisted/debarred from business with any PSU in India, and the reasons thereof?		
18	Bank Details		
	Name of bank:		
	Name of Bank Branch:		
	City/Place:		
	Account Number:		
	Account Type:		
	IFSC Code:		
	MICR Code:		
	Swift Code		
	Self-attested or Bank attested Bank details on Company letterhead or cancelled cheque		
	Current year Solvency Certificate		

PROFORMA FOR BANK GUARANTEE FOR EARNEST MONEY DEPOSIT

In accordance with Notice Inviting Tender (NIT) No. _____ Dated _____ for the work of _____ (herein after referred to as "the said Works") for Rs. _____ (Rupees _____ only), under RED unit of M/s IREL (India) Limited, a company incorporated under Indian Companies Act, having its registered office at Plot No.1207, ECIL building, Opp. to Siddhivinayak Temple, Veer Savarkar Marg, Prabhadevi, Mumbai - 400028, India (herein after referred to as IREL), M/s _____ Address _____ [Herein after referred to as Contractor (s)] wish /wishes to participate in the said tender and a Bank Guarantee for the sum of Rs. _____ (in words) valid for a period of _____ days (in words) is required to be submitted by the Bidder towards the Bid Security.

We the _____ Bank (hereinafter called the said Bank) do hereby undertake to pay to IREL, the sum of Rs. _____ (Rupees _____ only) by reason of the said tenderer's failure to enter into an agreement of contract on intimation of acceptance of his tender and/or to commence the contract works and/or failure to deposit the security deposit within the stipulated period as per the terms and conditions relating to and/or governing the contract and/or specified in the Notice Inviting Tender (NIT). We also agree that any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this Guarantee. We also agree that notwithstanding any dispute or difference or any litigation in respect of or arising from the said contract and/or the acceptance of the tender of the tenderer afore stated by IREL including the question as to the tenability of the claim of the IREL for forfeiting the Earnest Money being the Bank Guarantee herein, we shall forthwith pay the said amount to IREL on demand being made as aforesaid.

We _____ Bank further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for entering into an Agreement of contract and that it shall continue to be enforceable till all the dues of the IREL under the terms and conditions of the NIT for the work have been fully paid and its claims satisfied or discharged or till IREL certifies, that the terms and conditions of the NIT have been fully and properly carried out by the said tenderer and accordingly discharges the guarantee.

We _____ Bank further agree with the IREL that the IREL shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the NIT and/or terms and conditions governing the contract or to extend the time of validity of the offer from the said tenderer from time to time or to postpone for any time or from time to any of the powers exercisable by the IREL against the said tenderer and to forbear or enforce any of the terms and conditions of the NIT and we shall not be relieved from our liability hereunder by reason of any such variation, or extension being granted to the said tenderer or for any forbearance, act or omission on the part of the IREL or any indulgence by the IREL to the said tenderer or by any such matter or thing whatsoever which under the law relating to surety/guarantee would but for this provision have effect of so relieving us.

We _____ Bank do hereby further agree that any change in the Constitution of the said tenderer or the Bank will not affect the validity of this guarantee.

We _____ Bank lastly undertake not to revoke this guarantee during its currency except with the previous consent of the IREL in writing.

Notwithstanding anything to the contrary contained herein before :

- (i) Our Liability under this Bank Guarantee shall not exceed and restricted to Rs..... (in words)
- (ii) (ii) This Bank Guarantee shall be valid upto, unless extended on demand.
- (iii) (iii) The bank is liable to pay the guaranteed amount or any part thereof under this bank Guarantee only if IREL serve a written claim or demand on or before (Three months from the expiry of Guarantee period)

Dated the _____ day of _____ 20—

_____ Bank

(Signature with name in Block letters with designation,

Attorney as per power of Attorney No.____dt. ____)

Bank's Common seal