

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	10-09-2025 16:00:00
बिड खुलने की तारीख/समय /Bid Opening Date/Time	10-09-2025 16:30:00
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	4923
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
GeMARPTS में खोजी गई स्ट्रिंग्स / Searched Strings used in GeMARPTS	Fabrication, Supply, Erection and commissioning of MSFRP tank
GeMARPTS में खोजा गया परिणाम / Searched Result generated in GeMARPTS	Reverse Osmosis based Water Treatment System above 50 LPH Capacity (V2)
अधिसूचना के लिए चयनित प्रासंगिक श्रेणियाँ / Relevant Categories selected for notification	<ul style="list-style-type: none"> <li>MSRL Acid Storage Tank (NTPC)</li> </ul>
बीओक्यू शीर्षक /BOQ Title	Fabrication Supply Erection and commissioning of MSFRP tank
बिडर का न्यूनतम औसत वार्षिक टर्नओवर (3 वर्षों का) /Minimum Average Annual Turnover of the bidder (For 3 Years)	30 Lakh (s)
उन्हीं/समान सेवा के लिए अपेक्षित विगत अनुभव के वर्ष/Years of Past Experience Required for same/similar service	3 Year (s)
वर्षों के अनुभव एवं टर्नओवर से एमएसई को छूट प्राप्त है / MSE Exemption for Years Of Experience and Turnover	Yes   Complete

बिड विवरण/Bid Details	
स्टार्टअप के लिए अनुभव के वर्षों और टर्नओवर से छूट प्रदान की गई है / <b>Startup Exemption for Years Of Experience and Turnover</b>	Yes   Complete
विक्रेता से मांगे गए दस्तावेज़/ <b>Document required from seller</b>	Experience Criteria,Bidder Turnover,Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC) *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/ <b>Do you want to show documents uploaded by bidders to all bidders participated in bid?</b>	No
बिड लगाने की समय-सीमा बढ़ाने के लिए आवश्यक न्यूनतम सहभागी विक्रेताओं की संख्या। / <b>Minimum number of bids required to disable automatic bid extension</b>	3
दिनों की संख्या, जिनके लिए बिड लगाने की समय-सीमा बढ़ाई जाएगी। / <b>Number of days for which Bid would be auto-extended</b>	7
बिड से रिवर्स नीलामी सक्रिय किया/ <b>Bid to RA enabled</b>	No
क्रेता के लिए उपलब्ध आईटीसी/ITC available to buyer	Yes
बिड का प्रकार/ <b>Type of Bid</b>	Two Packet Bid
प्राथमिक उत्पाद श्रेणी/ <b>Primary product category</b>	Title1
तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय / <b>Time allowed for Technical Clarifications during technical evaluation</b>	2 Days
निरीक्षण आवश्यक (सूचीबद्ध निरीक्षण प्राधिकरण /जेम के साथ पूर्व पंजीकृत एजेंसियों द्वारा)/ <b>Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)</b>	No
अनुमानित बिड मूल्य / <b>Estimated Bid Value</b>	10119772
<b>Payment Timelines</b>	Payments shall be made to the Seller within <b>30</b> 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/ <b>Evaluation Method</b>	Total value wise evaluation
वित्तीय दस्तावेज की आवश्यकता है / <b>Financial Document Required</b>	Yes
मध्यस्थता खंड/ <b>Arbitration Clause</b>	No
सुलह खंड/ <b>Mediation Clause</b>	No

**ईएमडी विवरण/EMD Detail**

एडवाइजरी बैंक/Advisory Bank	State Bank of India
ईएमडी राशि/EMD Amount	171522

**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).	14

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

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

**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
--	-----

**एमएसई खरीद वरीयता/MSE Purchase Preference**

एमएसई खरीद वरीयता/MSE Purchase Preference	Yes
---	-----

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. Experience Criteria: In respect of the filter applied for experience criteria, the Bidder or its OEM of the product offered in the bid {themselves or through reseller(s)} should have regularly, manufactured and supplied same or similar Category Products to any Central / State Govt Organization / PSU for number of Financial years as indicated above in the bid document before the bid opening date. Copies of relevant contracts and delivery acceptance certificates like CRAC to be submitted along with bid in support of having supplied some quantity during each of the Financial year. In case of bunch bids, the category of primary product having highest value should meet this criterion.

7. Preference to Make In India products (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as per the Public Procurement (preference to Make-in -India) order 2017 dated 04.06.2020. Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate. However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023.

[OM No.1 4 2021 PPD dated 18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

8. 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.

9. Estimated Bid Value indicated above is being declared solely for the purpose of guidance on EMD amount and for determining the Eligibility Criteria related to Turn Over, Past Performance and Project / Past Experience etc. This has no relevance or bearing on the price to be quoted by the bidders and is also not going to have any

impact on bid participation. Also this is not going to be used as a criteria in determining reasonableness of quoted prices which would be determined by the buyer based on its own assessment of reasonableness and based on competitive prices received in Bid / RA process.

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
30-08-2025 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	21	240

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

--

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	100	240

#### 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	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.	3	240

#### 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	8	240

#### 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>



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.	7	240

**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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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
-------------------	---	-------------	------------------	---------------------------------

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.	4200	240

## 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	50	240

## 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	26	240

**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**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	40	240

## 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	100	240

## 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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	240

**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**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	168	240

**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**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	10	240

#### 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	15	240

### 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	12	240

### 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	30	240

**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**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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
-------------------	---	-------------	------------------	---------------------------------



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	240

### 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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	240

### 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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	240

**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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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	240

## 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	3	240

## 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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	240

**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**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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	240

**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**

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	45	240

#### 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

<b>Specification Document</b>	<a href="#">View File</a>
<b>BOQ Detail Document</b>	<a href="#">View File</a>

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.	47	240

## 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	10	240

## 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	<a href="#">View File</a>
BOQ Detail Document	<a href="#">View File</a>

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.	6	240

**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:

- Copy of PAN Card.
- Copy of GSTIN.
- Copy of Cancelled Cheque.
- 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---



**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



IREL/RED/P/25-26/35725/

## निविदा आमंत्रण सूचना NOTICE INVITING TO TENDER

### SCHEDULE OF TENDER (SOT)

a.	Description of supply	ETP Cake Processing in RED
b.	Mode of tender	Open tender invited in two parts. Part-I: Techno-Commercial Bid Part - II: Price Bid.
c.	Pre-Bid Meeting	30-08-2025, 10.30Hrs, at IREL, RED, Udyogamandal
d.	Estimated Value	Rs. 10,119,772/- (Inclusive of all).
e.	Earnest Money Deposit (EMD)	Rs. 1,71,522/-
f.	Validity of Tender	90 days from the date of opening of Techno-Commercial bid.
g.	Contact details of tender inviting authority	Shri.V A Anil Kumar- CM-Technical (Purchase) IREL (India) Limited, R E Division, Udyogamandal - 683 501, KERALA E-mail: <a href="mailto:purchase-red@irel.co.in">purchase-red@irel.co.in</a> Ph. No. 0484-2545199

### 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 Technical Specification / Scope of work related query	Shri. Amith P.C DM – Technical (Production)	<a href="mailto:production-red@irel.co.in">production-red@irel.co.in</a> amith.pc@irel.co.in	8754559102
For Bid/tender related query	Shri. V A Anil Kumar CM-Technical (Purchase)	purchase-red@irel.co.in	0484-2545199 9443482644
For Consignment/Goods Transportation related query	Shri. Sanjaykumar Vind SM-Technical (Stores)	stores-red@irel.co.in	91 8301997625
For Payment/refund related query	Shri. Gautam Samui, CM-Finance (Costing & Financial Vetting)	finance-red@irel.co.in	9497094368

### **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 shall 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 shall 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. shall 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:

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.

- 14.0 To enhance MSME competitiveness, the Government of India envisioned the Zero Defect Zero Effect (ZED) initiative to make MSME sustainable and transform them as National and International Champions. MSME Sustainable (ZED) Certification is an extensive drive to create awareness amongst MSMEs about Zero Defect Zero Effect (ZED) practices and motivate & incentivise them for ZED Certification while also encouraging them to become MSME Champions.

The ZED (Zero Defect Zero Effect) Certification, a scheme by the Indian government for Micro, Small, and Medium Enterprises (MSMEs), offers numerous benefits, including financial incentives, improved quality and productivity, enhanced market access, and increased global competitiveness. For registration please visit <https://zed.msme.gov.in>

#### 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](mailto:satyajeet.jathar@rxil.in)*

*RXIL Relationship manager Mr Kirti musale : +91 90048 17501 email: [kirti.musale@rxil.in](mailto:kirti.musale@rxil.in)*

**DTX - KreDX Platform Private Limited (the 5<sup>th</sup> TReDX Platform) - Registration Number- COL75X754M2W**

Prathamesh Varose: +91 -8600273564 email: [prathamesh.varose@kredx.com](mailto:prathamesh.varose@kredx.com)

Jason Chongtham: +91 -9600063327 email: [jason@kredx.com](mailto:jason@kredx.com)

#### **M1xchange**

a. Registration Number -BUYER00047728

b. Contact Person: Mr. Ankit K. Singh, 9800250394, email: [ankit.singh@m1xchnage.com](mailto:ankit.singh@m1xchnage.com)

#### **Invoicemart**

a. Entity ID/Registration Number- 1000036436

b. Contact Person: Mr. Amith Dutta, 8600179668, email: [Amit1.Dutta@invoicemart.com](mailto:Amit1.Dutta@invoicemart.com)

#### **C2treds (C2FO)**

a. Registration Number: B0320250094

b. Contact Person: Ms. Monalisa, 9220407665, email: [monalisa.das@c2treds.com](mailto:monalisa.das@c2treds.com)

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

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

16.0 **MAKE IN INDIA**

For this procurement, Public Procurement (Preference to Make in India). Order 2017 dated 15.06.2017, 28.05.2018 & 29.05.2019 and subsequent Orders issued by the respective Nodal Ministry shall be applicable. The bidder has to provide certificate as a proof for minimum 50% and 20% local content required for qualifying Class 1 and Class 2 Local Supplier respectively.

## **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.

# **PART - I**

## **TECHNO-COMMERCIAL BID**

### **REQUIRED DOCUMENTS TO BE SUBMITTED ALONGWITH TECHNO-COMMERCIAL BID.**

Sl. No.	Description	Up-loaded Yes /No
1	Documents as per Pre-Qualification Criteria (Annexure - I)	
2	Acceptance of SCOC & Technical Specification & BOQ Signed & Seal Affixed (Annexure - II ,IIA,IIB, III Page no.11 to 44)	
3	Technical Deviation Statement Form duly filled Signed & Seal Affixed (Annexure-IV Page No: 45)	
4	Duly filled, Signed & Seal Affixed Document (Annexure - V to XII (Page no.46 to 53)	
5	Copy of GST & PAN Certificates.	
6	Proof of submission of EMD / valid exemption certificate (if applicable).	
7	Any other documents as per tender conditions.	

### **PRE-QUALIFICATION CRITERIA (PQC)**

Only competent bidder with sound technical and financial capability meeting the respective pre-qualification requirement stated hereunder shall be prequalified for the project. The bidder shall take single point responsibility for execution of the complete project within the plant area as specified in the tender document.

#### **1.0 TECHNICAL CRITERIA**

The bidder should possess experience of having successfully completed similar works in Chemical Sector as given below in PQC clause no.1.1 & 1.2 during last 07 years ending July 2025 to any Govt. Organizations/PSU/CPSU/reputed private organizations and meeting the value as given below;

- (a) One similar work of value INR 80.95 lakh  
or
- (b) Two similar works of value INR 50.59 each  
or
- (c) Three similar works of value INR 40.47 lakh each

#### **Definition of Similar work means**

The bidder shall have completed all the following works, but not necessarily in a single work order/contract as given below

- 1.1 Fabrication, supply, erection and commissioning of CSFRP/MSFRP Tanks of minimum 18m3 volume capacity with agitator system and associated mechanical structures.
- 1.2 Civil work such as construction of RCC structures/buildings/tanks/Structural steel building/Pre-Engineering Building having RCC & steel part/component in its bill of quantity or price schedule.

Party has to submit the copy of Purchase order/ Work order and Invoice/ Completion certificate for similar works for evaluating the Technical competency

#### **2.0 FINANCIAL CRITERIA**

- 2.1 The average annual turnover during the last three financial years i.e. 2024-25, 2023-24, 2022-23 or Financial years 2021-22, 2022-23 and 2023-24 as applicable of the bidder shall be at least INR 30.35 lakh.
- 2.2 The bidder shall submit Audited Profit & Loss statement for last three financial years 2024- 25, 2023-24 and 2022-23 or Financial years 2021-22, 2022-23 and 2023-24 as applicable.

#### **3.0 SITE VISIT**

Civil work such as construction of RCC structures and Mechanical works such as Fabrication, Erection and commissioning of tanks and platform structures etc as detailed in scope of work are site specific work. It is difficult to assess the exact work without the site visit. Hence, site visit is mandatory. Party has to submit proof of site visit while uploading documents through GEM portal.

**SPECIAL CONDITIONS OF CONTRACT (SCOC)****1.0 SCOPE OF WORK**

The Scope of Work for ETP cake processing involves

- (i) Fabrication, Supply, Erection and Commissioning of 2nos each of 30m<sup>3</sup> MSFRP tank,
- (ii) Erection and Commissioning of filter press,
- (iii) Installation of one number of 4inch ODS pump, 3number of centrifugal pump and one number of 1 m<sup>3</sup> HDPE tank.
- (iv) Supply and Laying of HDPE Pipes, Fittings and associated works for one number of existing 50 m<sup>3</sup>Process tank , two numbers of30 m<sup>3</sup> Process Tanks, one number of 1m<sup>3</sup> HDPE tank, one number of filter press, three number of centrifugal pumps and one number of 4 inch ODS pump.
- (v) Fabrication, Supply, Erection and Commissioning of Monorail and associated MS Structures and Supply, Erection and commissioning of Electric Hoist,
- (vi) Fabrication, Supply, Erection and Commissioning of MS Platform Structures for an existing 50m<sup>3</sup>tank,two new 30m<sup>3</sup> Process Tank and for a filter press
- (vii) Civil works in part A and mechanical works in Part B as per BOQ and technical specifications which is as follows.

**Part A- Civil Work**

- 1.1 Demolishing & removal of RCC concrete flooring, drain, foundation / pedestals, brick wall / masonry, ramps etc., by manually/ mechanical means.
- 1.2 Removing & lowering, stacking of all type of roof sheets includes AC (Asbestos Cement), polycarbonate sheets, metallic roofing sheets, uPVC, cladding sheets including ridges & screws /roof bolts using all necessary tools, equipment with the help of scaffoldings & working platforms at required heights.
- 1.3 Dismantling of MS structural by appropriate cutting method. The existing damaged structural steel items shall be cut in to 4.0m & weighed in our weigh bridge before dispose in to scrap yard.
- 1.4 Earthwork excavation up to a depth of 2 m (approx.) from the ground level by mechanical & manual means.
- 1.5 Providing PCC 1:3:6 mix at bottom of foundation, raft using graded broken stone aggregate 20-40mm nominal size which is directed by EIC.
- 1.6 Supply, Providing & laying of high yield strength deformed (HYSD) Fe500D bars conforming IS 1786.
- 1.7 Anchoring of new re-bars in the RCC columns & beams wherever required by using pure epoxy resin anchoring mortar
- 1.8 Providing shuttering of approved quality for all RCC works shall conform to the shape, lines and dimensions, strong enough to withstand the dead and live loads and forces etc..
- 1.9 Providing & laying RCC M30 grade concrete using 20mm-12mm broken stone aggregate, M-sand with minimum cement content of 380Kg per m<sup>3</sup> mechanically vibrated, consolidated, curing, quality of materials as approved.
- 1.10 Supplying, fabrication and erection of MS steel structural such as column, beam, truss, purlins, bracing, base plate, brackets, stiffeners, side cladding, louvers, etc.
- 1.11 Supplying, providing, laying and fixing of industrial profile PVC roof sheet 1.90mm thick white

colour.

- 1.12 Providing plastering in CM 1:4, 12 mm thick average wherever required.
- 1.13 Providing FRP lining in the joints at roof sheet using two layers of chopped strand glass fiber matt of 450 GSM and one layer of surface mat with pigment coating in Isophthalic resin after thorough cleaning the surface using sweeping brush.
- 1.14 The work must be carried out generally as per the technical specification and the contractor must be willing to carry out minor changes to suit the site conditions as per company requirements.

#### **Part B-Mechanical work**

- 1.15 Fabrication, Supply, Erection and Commissioning of 2 nos each of 30m<sup>3</sup> conical bottom MSFRP tanks including agitator system and associated supports as per scope of work and technical requirements detailed below
- 1.16 Erection and Commissioning of filter press as per the instruction of EIC
- 1.17 Installation of one no. of 4inch ODS pump, 3 no. of centrifugal pump and one number of 1m<sup>3</sup> HDPE tank
- 1.18 Fabrication, Supply, Erection and Commissioning of Monorail & associated MS Structures and supply and installation of 1 no. of 2 tons Electric Hoist for an existing 50m<sup>3</sup> MSFRP process tank
- 1.19 Fabrication, supply, Erection and Commissioning of MS structural Working Platforms, Platform supports, Step ladders, handrails, toe board and associated structures for process tanks and filter press
- 1.20 Supply, fabrication and fixing of HDPE pipes, fitting, valves etc. along with proper support for clauses 1.15 to 1.17 and for an existing 50 m<sup>3</sup> process tank

#### **2.0 Details of work:**

Successful bidder has to submit time schedule for completion of work. Successful bidder has to visit the site prior to the participation in bid and get accustomed with the site condition and erection of new one etc. The fabrication drawings and tank leg foundation drawings are to be submitted within 20 days of receipt of order. Party has to commence the fabrication work only after approval of drawing by IREL. The work includes but not limited to:

#### **Part A-Civil Work**

- 2.1 Demolishing & removal of RCC concrete flooring, drain, foundation / pedestals, brick wall / masonry, ramps etc., by manually/ mechanical means breaker machines, hammer, including cutting of re-bars without damaging the existing structures & disposal of waste material within 750 m from work site lead as per direction of Engineer-in-Charge.
- 2.2 Removing & lowering, stacking as directed by EIC of all type of roof sheets includes AC (Asbestos Cement), polycarbonate sheets, metallic roofing sheets, uPVC, cladding sheets including ridges & screws /roof bolts using all necessary tools, equipment with the help of scaffoldings & working platforms at required heights. The removed roof sheet is placed on location directed by EIC. The strength alignment of scaffolding shall be got approved by the Engineer-in-charge.
- 2.3 Dismantling of MS structural by appropriate cutting method (cold cutting/gas cutting etc.) The work includes cutting, removing of MS structural like columns, beam, platform, purlins, rafters, cladding, louvers etc., by using necessary scaffolding at required height without damaging the nearby building or structure & nearby equipment's and disposes the dismantled items in to the scrap yard, complete as directed by Engineer-in-Charge. The existing damaged structural steel items shall be cut in to 4.0m & weighed in our weigh bridge before dispose in to scrap yard.

- 2.4 Earthwork excavation up to a depth of 2 m (approx.) from the ground level by mechanical & manual means including dressing of sides and ramming of bottoms, removing all waste materials, dewatering of ground water, backfilling, shifting of excess earth to disposal yard / colony premises within a distance of 750m from site as directed by EIC.
- 2.5 Providing PCC 1:3:6 mix at bottom of foundation, raft using graded broken stone aggregate 20-40mm nominalize which is directed by EIC.
- 2.6 Supply, Providing & laying of high yield strength deformed (HYSD) Fe500D bars conforming IS 1786, cutting to required size, bending and placing in position and binding with 18/20 gauge black/ GI tying wire. All reinforcement shall be inspected before assembling in the work site and any defective, brittle, excessively rusted or burnt bars shall be removed. Cracked ends of bars shall be cut out. The Contractor shall provide required & suitable supports for maintaining the bars in position and ensuring required spacing and correct cover of concrete to the reinforcement.  
Cover blocks of required shape and size, M.S. Chairs and spacer bars shall be used to ensure accurate positioning of reinforcement.
- 2.7 Anchoring of new re-bars in the RCC columns & beams wherever required by using pure epoxy resin anchoring mortar (Master flow 935 of BASF or equivalent FOSROC/SIKA/HILTI) with diameter 12mm to 25 mm of drilling of holes required for proper bonding into the concrete etc., complete as directed by EIC.
- 2.8 Providing shuttering of approved quality for all RCC works shall conform to the shape, lines and dimensions, strong enough to withstand the dead and live loads and forces caused by ramming and vibrations of concrete and other incidental loads, imposed upon it during and after casting of concrete and shall be sufficiently tight to prevent loss of cement slurry from the concrete. It shall be made sufficiently rigid by using adequate number of ties and braces, screw jacks or hard board wedges wherever required shall be provided before or during placing of concrete. The arrangement and alignment of formwork shall be got approved by the Engineer-in-charge (EIC) prior to concreting. However, this shall not relieve the contractor from his responsibility for proper work and safety. All joints and holes in the formwork shall be caulked with putty jute cloth or other approved materials to the satisfaction of the EIC.
- 2.9 Providing & laying RCC M30 grade concrete using 20mm-12mm broken stone aggregate, M-sand with minimum cement content of 380Kg per m<sup>3</sup> mechanically vibrated, consolidated, curing, quality of materials as approved, cost, conveyance, lead, lift of all materials, labour, etc., complete. Also cube test & slump test should be taken during concrete & BIS test report for cube test should be submitted after 28 days.
- 2.10 Supplying, fabrication and erection of MS steel structural such as column, beam, truss, purlins, bracing, base plate, brackets, stiffeners, side cladding, louvers, etc. by using standard size beams, channels, angles, flats, plates etc. by welded or bolted connection at all heights and levels, including cutting, welding, jointing to suit for replacing the worn-out members of the existing trusses, purlins, bracings, column, structure or full members, painting the steel surface with one coat of epoxy primer (zinc phosphate/red oxide) & two coat of high build epoxy finish paint after thorough surface preparation using cup brush fitted with angle grinder, necessary scaffolding arrangements wherever required etc., as directed by Engineer-in-charge.
- 2.11 Supplying, providing, laying and fixing of industrial profile PVC roof sheet 1.90mm thick white colour, (overall width of 1063mm and crest height of 40mm with centre to centre crest of 250mm), fixing with suitable size aluminium alloy mill finish cyclonic / storm washer on crest of sheet profile, SS304 self-tapping screws, FRP flats and apply weather proof silicon joint sealant to

make the roof leak proof, to suit the M.S. angle/channel, purlin, in required shape/length etc. to suit for existing site conditions and roof setup as per standard specification and as directed by Engineer-in-charge.

- 2.12 Providing plastering in CM 1:4, 12 mm thick average wherever required, mixing & application of mortar, finishing smooth with cement slurry coat, proper line & level all required for completion of work as directed by EIC.
- 2.13 Providing FRP lining in the joints at roof sheet using two layers of chopped strand glass fiber matt of 450 GSM and one layer of surface mat with pigment coating in Isophthalic resin after thorough cleaning the surface using sweeping brush.
- 2.14 The work must be carried out generally as per the technical specification and the contractor must be willing to carry out minor changes to suit the site conditions as per company requirements. The successful contractor must ensure full compliance of the directives of Engineer-in-charge of civil section during every stage of work.

## **Part B- Mechanical Work**

### **I. Fabrication, Supply, Erection and Commissioning of 2nos each of 30m<sup>3</sup> MSFRP tank**

- 2.15 Fabrication, Supply, Erection and Commissioning of 2 numbers each of 30m<sup>3</sup> MSFRP conical bottom tanks with all accessories such as agitator with housing bridge, reduction gear, motor, grid plates, support bearings, bearing housing, couplings, leg and leg supports with base plates. Tank Bridge, Tank Cover Plate and Tank Grills, etc.
- 2.16 The fabrication drawings are to be submitted within 20 days after receipt of order. Party has to commence the fabrication work only after approval of drawing by EIC.
- 2.17 Opening of all flanges, pipes, fittings, electrical connections, instrument connections, asbestos sheets etc. and cutting of tank platforms, supports, and foundations if any required for an existing tank of 50m<sup>3</sup> and re-fixing of the same / new one after erection of the tanks, if required for operation of the tanks as per instruction of EIC.
- 2.18 **FRP lining** to be done for the two new fabricated tanks of 30m<sup>3</sup> process tank as mentioned in Annexure-IIA
- 2.19 **Erection** of two numbers each of 30m<sup>3</sup>MSFRP conical bottom tanks with all accessories such as agitator complete with housing bridge, motor, reduction gear, bearings, bearing housing, couplings, lug and leg supports with base plates, etc.
- 2.20 Fabrication will be as per technical specification and attached tentative drawings. The technical requirements and drawings provided in the tender are only indicative and not descriptive and the contractor shall ensure that the whole system supplied is complete in all respects for the smooth operation of the plant and should be suitable for the rated performance.
- 2.21 All materials including MS sheet required for fabrication, erection and commissioning will be under the contractor's scope.
- 2.22 The contractor has to fabricate and lay new pipelines and fittings suitable for the two new 30m<sup>3</sup> MSFRP tank, 1 m<sup>3</sup> HDPE tank and for the existing 50m<sup>3</sup> tanks as per the instruction of EIC.

All the pipes at site are of HDPE material. The pipes and pipe fittings (like bends, ends, flanges, Tee, nut & bolts etc.) including valves are in contractor scope.

- 2.23 All the pipes and valves used for the above work should be supported by pipe rack support as per the instruction of EIC
- 2.24 Contractor shall provide consumable materials, Cranes, ladders, platforms, temporary supports and other necessary facilities required for the handling and erection of the equipment supplied under the Contract.
- 2.25 Unless otherwise provided in the Contract, the contractor shall arrange all construction / erection equipment/vehicle, welding equipment, erection and lifting tools and tackles, instruments and appliances required for the fabrication and erection work.
- 2.26 Contractor shall provide necessary supervisory personnel, staff, skilled and unskilled labour to ensure that the whole of the fabrication and 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.
- 2.27 Contractor shall provide all the material, scaffolding, tools and machineries, vehicles required for cutting of existing tank foundation and for providing new foundation. Any work related to cutting of existing tank foundation and for providing new foundation is under contractor's scope.
- 2.28 **During Commissioning and performance testing** of the tanks, Contractor representative must be present.

Detailed technical specification is enclosed in **Annexure-IIA**.

- 2.29 The Contractor has to fabricate/procure the materials required like FRP lined Agitator, Gearbox, Pedestal/Stub shaft, Tank Bridge, Tank Cover Plate, Motor, Bearings, Flanged couplings, Lovejoy Couplings and connected accessories; supply the material and erect at the site as indicated in the sketch (Annexure-IIA).
- 2.30 The Drawing showing all details has been attached for reference. Any missing dimension has to be taken from site and any clarification required should be sought from the EIC prior to fabrication.
- 2.31 The Contractor has to provide Cover plates, Bridge and pedestal for mounting the gearbox-motor unit. Then the Worm type Gearbox (V1000 or equivalent) of Gear Ratio 20:1 (Suiting to Motor specification) and the Motor (15HP, 1440rpm) has to be mounted on to the pedestal. The Gearbox and the Motor so installed has to be coupled using Lovejoy coupling of size suiting to Gearbox and motor and shall be aligned properly. After this the Agitator has to be installed inside the tank and fitted to the flanged coupling of the shaft as shown in sketch.
- 2.32 After the completion of fabrication and erection works, all required areas are to be thoroughly cleaned by cup brush attached by the angle grinder followed by paint using 1 coat of Epoxy Chemical resistant primer and 2 coats of Epoxy Chemical resistant finish paint of Light Grey Colour.



## **II. Erection and Commissioning of filter press**

- 2.33 IREL shall provide the filter press and it has to be erected and commissioned as per the instruction of EIC
- 2.34 Successful bidder Should provide necessary platform structure for the filter press as per the instruction of EIC
- 2.35 Successful bidder Should provide necessary piping's, fittings and the support wherever required for the filter press or as per the instruction of the EIC
- 2.36 Successful bidder Should provide FRP discharge hood of specified dimension as mentioned in the BOQ or as per the instruction of EIC

## **III. Installation of one number of 4inch ODS pump, 3 number of centrifugal pump and one number of 1 m<sup>3</sup> HDPE tank**

- 2.37 IREL shall provide, one number of 4 inch ODS pump, three number of Centrifugal pump and one number of 1 m<sup>3</sup> HDPE tank
- 2.38 One number of 4inch ODS pump, three no. of Centrifugal pump and one no. of 1 m<sup>3</sup> HDPE tank has to be connected with associated piping's and fittings
- 2.39 Suction and discharge line of all the four pumps are to be properly supported and welded if required
- 2.40 ODS pump has to be connected with air line as per the instruction of EIC
- 2.41 Water flushing lines of pumps wherever required to be connected as per the instruction of EIC
- 2.42 All the four pumps base to be constructed so that it can withstand the pressure while in operation
- 2.43 1m<sup>3</sup> HDPE tank has to be connected with one number of centrifugal pump as mentioned above and it has to be connected with piping's and fittings as per the instruction of EIC

## **IV. Supply and Laying of HDPE Pipes, Fittings and associated works for one number of existing 50 m<sup>3</sup> Process tank , two numbers of 30 m<sup>3</sup> Process Tanks, one number of 1m<sup>3</sup> HDPE tank, one number of filter press, three number of centrifugal pumps and one number of 4 inch ODS pump**

- 2.44 The contractor has to provide HDPE Pipeline provision for the aforementioned process tanks, filter press, pumps, one no. of existing 50m<sup>3</sup> tank, 2 numbers each of 30 m<sup>3</sup> tanks, one number of 1m<sup>3</sup> HDPE tank, three number of centrifugal pump, and to the one number of 4 inch ODS pump. Piping work contains supply, fabrication and laying of HDPE pipelines, fittings and installation of various PP Valves, three numbers of centrifugal Pumps and one number of ODS pump as per the site requirement or as per the instruction of EIC.
- 2.45 The Contractor shall provide 3 numbers of MS Nipples for 30 m<sup>3</sup> tank of approximately 90mm size for decantation, the first decantation nipple shall be 2600mm from the Tank top, second decantation nipple shall be 2900mm from the tank top and the third decantation nipple shall be 3200mm from the tank top suiting to the site condition if required.
- 2.46 The contractor has to open three numbers of decantation nozzle of the existing 50m<sup>3</sup> process tank and provide valve and then connect with the 90mm decantation line to the centrifugal

pump as per the instruction of EIC.

- 2.47 The contractor has to prepare the piping layout in consultation with Plant-In-charge and EIC. Piping Layout shall be finalized after due approval of EIC and Plant-In-charge. Pipeline laying work will start only after the finalization of Piping Layout.
- 2.48 Flexible, Transparent PVC sheet of 3mm thickness shall be used as a gasket for joining HDPE Flanges of various sizes by the contractor.
- 2.49 All HDPE Pipelines and PP Valves shall be properly and firmly supported by fixed permanent MS Supports as per the instruction of EIC .Pipe shall not be laid in sagging condition, wherever required the HDPE pipeline shall pass through pipe racks and pipe supports. As per the site requirement and EIC's instruction adequate slope shall be provided while laying the pipelines.
- 2.50 Pipeline shall not be laid in haphazard and crisscross manner. Party shall ensure good engineering practice during laying of pipelines.
- 2.51 All pipeline supports and pipe racks shall be thoroughly cleaned by wire brush, sanders, chisel, Angle grinder with cup brush arrangement, etc., to remove the rust and then painted by one coat of epoxy Chemical resistant primer and two coats of Epoxy Chemical resistant Finish Paint of Light Green Eau-de-Nil colour. As per the site conditions Pipeline supports shall be provided on to the concrete surface through Anchor bolting. The contractor has to fabricate the MS Pipe Racks.
- 2.52 All HDPE pipes shall meet the following specification and as per standards: IS 4984, 1995, PN10, Material Grade PE80.
- 2.53 All HDPE Fittings shall meet the following standards and specifications: IS 8008, 1976, PN10, Material Grade PE80. All HDPE Flanges shall be as per ANSI B 16.5 Class 150 Standard.
- 2.54 The Contractor has to wrap the adhesive tape on the HDPE pipe lines of appropriate colour as per the colour code prevalent in IREL. Party has to supply the suitable adhesive tapes and carry out the work.
- 2.55 Cutting and removing unwanted pipe lines, structures, RCC Slabs, parapet walls, dyke walls, etc. for installation of the pipelines suiting to the site condition if required. Pump installation/relocation has to be done as per requirement.

**V. Fabrication, Supply, Erection and Commissioning of Monorail and associated MS Structures and Supply, Erection and commissioning of Electric Hoist:**

This work covers fabrication, supply, erection, painting and commissioning of MS structures for Electric Hoist for an existing 50 m<sup>3</sup> process tank and Supply, erection and commissioning of 2 Ton Trolley mounted Electric Hoist (1 Nos) as per the tentative drawing attached (Annexure-IIB).

- 2.56 Supply, fabrication and erection of MS structures members such as cross tie beams, monorails, stiffeners, battens, joint plates, other supports, etc. as per attached tentative drawing and as directed by Engineer-in-charge. The Cross Tie Beam and the Monorail beam shall be ISMB 300. The work includes cutting and welding, jointing, bolting of MS sections and painting the structures steel work with one coat of epoxy chemical resistant primer & two coats of epoxy

chemical resistant finish paint of Light green Eau-De-Nil Colour. The fabrication & erection work shall be carried out generally as per relevant IS codes. Weighing slip of the material brought inside from the company weigh bridge to be submitted to EIC.

- 2.57 Tentative drawing for the structures to give basic idea to the parties for erection of mono rails in Annexure-IIB. The final drawing of structures for monorail shall be submitted by the Contractor after assessing the site conditions to the EIC. After getting approval of the final drawing for Monorail System by the EIC, the contractor has to procure the structures and other materials, fabricate the supports and monorail at his workshop/IREL's site in bolted connection and erect the same at site. The MS structures procured must be only from approved suppliers. No rerolled materials are to be used. The details of procurement like tax invoice, test certificates, etc. are to be submitted by the contractor during supply of the materials for releasing the payment. The excess/remaining materials have to be taken by the contractor within 30 days after the completion of work.
- 2.58 One number of electric hoists (2ton capacity) has to be supplied and installed in the monorail with a wire rope for cable movement and to be fitted parallel to the hoist movement for fixing electric cable of hoist.
- 2.59 All structures fabricated are to be painted at the contractor site with one coat of chemical resistant epoxy primer and two coats of chemical resistant epoxy paint of Eau-de-nil colour. The details of paint procured have to be submitted by the contractor during supply of the materials. Painting damaged during erection of Monorail and Electric Hoist has to be re-painted at site by the contractor.
- 2.60 Painting Procedures: The MS structures etc. has to be painted with one coat of epoxy primer and two coat of epoxy finish paint. The surface to be painted is to be cleaned thoroughly using chipping/ grinding / wire brush, primer / rust converter to be applied, kept overnight for curing, finish paint of sufficient number of coats as per the colour code are to be applied over this.
- 2.61 Any obstructions such as pipe trays, cable trays, pipes, slabs, etc. hindering the erection and commissioning works shall be rectified by the contractor in consultation with the EIC to ensure timely completion of the work.
- 2.62 The contractor shall be present at the site during the trial run of the hoist. The trolley shall move freely on the monorail system without any obstruction or constraints. The final payment shall be released only after the successful trial run. The contractor shall rectify/modify the Monorail/Electric Hoist in case of any abnormality during the trial run of the Electric Hoist.
- 2.63 The work must be carried out generally as per the technical specification and the contractor must be willing to undertake minor changes to suit the site conditions and as per company requirements. The successful contractor must ensure full compliance of the directives of Engineer-in-charge during every stage of work.
- 2.64 Electric Hoist cable shall be supported by the cable carrier to avoid sagging. Cable carrier shall be in the scope of the contractor.

**VI. Fabrication, Supply, Erection and Commissioning of MS Platform Structures for an existing 50m<sup>3</sup>tank,two new 30m<sup>3</sup> Process Tank and for a filter press**

- 2.65 MS Working Platforms and Platform supports shall be fabricated and erected for an existing

50m<sup>3</sup> tank, two new 30m<sup>3</sup> Process tanks and one filter press as per the instruction of EIC. MS working platform shall be fabricated and erected with staircase, hand rails and toe guards.

- 2.66 Working Platform is to be fixed with minimum 18mm thick Wooden Chequered Board. Party has to cut the Wooden Chequered Board as per the site condition and platform area. Wooden Chequered Board shall be fastened firmly with the working platform. Joining of the Wooden Chequered Board shall be leveled and should be without any uneven surface. Fasteners used shall not project over the Wooden Chequered Board. Supply of Wooden Chequered Board is under the Scope of the contractor.
- 2.67 The fabrication of platforms shall be of welded construction. Welds shall be cleaned between passes to remove all traces of slag and before successive beads or layers are deposited. Fabrication of MS structural shall be carried out in accordance with latest relevant IS codes.
- 2.68 Gap of approximately 10mm shall be provided in between Platform and body of the process tanks and the filter press
- 2.69 Any obstructions such as pipe trays, cable trays, pipes, slabs, etc. hindering the erection of Platform structures shall be rectified by the contractor in consultation with the EIC to ensure timely completion of the work.
- 2.70 The newly fabricated MS Working Platform structures, Platform Supports, Handrails and toe guards are to be painted with one coat of chemical resistant epoxy primer and two coats of chemical resistant epoxy paint after cleaning the surface. Cleaning of steel structural shall be done using angle grinder with cup brush arrangement wherever required as per instruction of the EIC.
- 2.71 The approximate quantity of steel required for the work is indicated in the BOQ/Price Schedule. Payment will be made based on the actual weight of the steel material fabricated & erected at Site.

### **3.0 TERMS AND CONDITIONS**

- 3.1 The contractor has to quote as per the BOQ/Price schedule as attached.
- 3.2 The successful contractor has to visit the site before starting the work to assess the quantity and type of MS Structures required for the fabrication of MS Platform for the Process Tanks, Monorails and other works related to this work order.
- 3.3 The contractor has to submit the detailed drawing mentioning the dimensions of all the spares/parts of the complete Agitator System for approval. The contractor has to start the procurement and fabrication works after getting detailed drawing approval from the EIC. Any modifications in the drawing, if required, have to be incorporated and the same is to be sent to the EIC again for approval.
- 3.4 The Contractor has to quote on lump sum basis for Fabrication/ Procurement & supply of all items (MSFRP tanks, Gearbox, Motor, Agitator-FRP lined, Flanged Couplings, Lovejoy couplings, Pedestal/Stub shaft, Bearings, Pins, Keys, tank bridge, tank cover, tank grills, etc.). This shall also include FRP lining works on Agitators and Tank Covers.
- 3.5 The Contractor has to quote on lump sum basis for erection of the MSFRP tanks with agitator system as shown in the sketch whereas for other works the contractor has to quote as per the Bill of Quantities attached.

- 3.6 The contractor shall submit the invoice copy of the Resin and Chopped Strand Matting used in FRP lining works. All the steel supplied shall be of SAIL/VIZAG/TATA/JSW/Essar confirming to latest IS Specifications. Material test certificates shall be submitted along with the supply.
- 3.7 All the MS Structures that are required for the fabrication works in Part A and B shall be routed through IREL's weigh bridge and weighment slip shall be submitted to the EIC.
- 3.8 Any modification required for erection and commissioning works shall be undertaken by the contractor in consultation with the EIC to ensure timely completion of the work.
- 3.9 Good and standard engineering practice has to be followed.
- 3.10 The contractor is advised to visit the site before quoting. Any clarification, if required, can be obtained from the EIC of the work.
- 3.11 All standard safety practices shall be followed by the contractor. The debris developed during the course of the work shall be removed on daily basis and the area to be cleaned perfectly after the completion of the work
- 3.12 Any abnormal wobbling, excess vibration or any defect observed on the Tank/Agitator System/Pedestal/Filter press/Pumps/ Electrical Hoist and associated piping's during the trial run shall be rectified before commissioning.
- 3.13 Any oil leakage noticed on the Gear Box during the trial operation and warrantee period of the Agitator system shall be rectified by the contractor.
- 3.14 Any leakage in Process tanks/ pipelines during the trial run, it shall be rectified by the contractor
- 3.15 The contractor shall rectify any/all defects arising during the trial run/commissioning phase. Commissioning phase includes leak test, spark test and Hydro test of MSFRP tanks, trial run of Agitator System, pumps, operation of Electrical Hoist, filter press, Platforms and Piping System.
- 3.16 **Commissioning and performance testing:** Contractor representative must be present during the performance testing.
- 3.17 The successful bidder has to submit the schedule of each work in coordination with EIC.
- 3.18 All the works mentioned as per Clause of Part B-I, II, III,IV,V and VI shall be done in parallel as far as possible along with Part –A
- 3.19 During the progress of the work & completion of the work, the respective section /department officials shall ensure that works are completed as per scope of the tender document in coordination with EIC.

**Note:** All materials such as MS Structural steels, RCC,MSFRP Tanks, Agitator, Accessories of Agitator System, Electrical Hoist, platform structures, HDPE Pipes, HDPE Fittings, PP Valves,tc. that are under the scope of supply of Contractor shall be permitted from the IREL's main security gate only after the approval of EIC.

#### **4.0 CONTRACTOR'S SCOPE OF SUPPLY**

MSFRP tanks, Agitators, Gearboxes, Motors, Couplings, Bearings, Pedestals, MS Steel Structures (for electric hoist, tank covers, tank bridges, Working Platform and structures, pipe racks and pipeline supports), Wooden Chequered Boards, MS flanged nipple, (Flexible & Transparent) PVC sheet, HDPE Pipes and Fittings (suiting to site conditions), Colour tapes, Polypropylene Ball Valves, HDPE Welding Mirrors, Welding machine, Cutting set, Painting brush, Drilling Machines, Epoxy Chemical resistant Primers & Finish Paints (Light Grey & Light Green Eau-De-Nil), Bisphenol resins and Chopped Stranded Matting's for FRP Lining, fasteners, Anchor Bolts, Lifting Tools and tackles, all consumables required for the work, Chain blocks, shackles, rope, ladder, labour, cable carrier for electric hoist, Scaffoldings.

#### **5.0 IREL'S SCOPE OF SUPPLY**

Electricity at 440V three phase and water will be made available to the contractor on free of charge at a single point within 100 meters of the work site required for the execution of the work. The contractor shall arrange for further distribution at his own cost. The contractor shall ensure that these are not misused or wasted.

IREL Shall provide one number of filter press, one number of 4" ODS pump, three numbers of centrifugal pumps and one number of 1m<sup>3</sup> HDPE tank which has to be installed in the prescribe area shown by EIC.

#### **6.0 SCOPE OF CONTRACTOR:**

Contractor has to supply all the necessary tools and tackles, scaffoldings, temporary supports, welding machine and electrodes, gas cutting machine with gas cylinders, HDPE welding mirrors, MS nuts and bolts of HDPE flanges and valves, grinders etc. required for fabrication, erection and commissioning. All Safety Equipment and PPEs, etc., and all other materials required for the work has to be brought by the contractor. Any other work not mentioned in scope of IREL, but necessary to complete the project will be under the scope of the contractor.

#### **7.0 TIME OF COMPLETION:**

- 7.1 The work has to be started within 7 days from the date of acceptance of work order.
- 7.2 The Contractor has to submit the drawing for approval to EIC within 20 days from the date of acceptance of work order.
- 7.3 IREL will approve the drawing within 7 days after the receipt of drawing by the contractor and the fabrication work to be started only after the approval of IREL.
- 7.4 Permitted work timings inside factory premises is from 08:00 hrs to 16:00 hrs. Any request for extension of time will be entertained only in case of exigencies under the sole discretion of E-I-C.
- 7.5 The entire work has to be completed within 8 months/240 days after the acceptance of the Work order.
- 7.6 The technical requirements and drawings provided in the tender are only indicative and not descriptive and the contractor shall ensure that the whole system supplied is complete in all respects for the smooth operation of the plant and should be suitable for the rated performance.
- 7.7 The successful bidder has to submit the time schedule of each of the work so that work can be completed within the prescribe timeline.

## **8.0 SITE VISIT**

Interested bidders can inspect the site on any working days 8:00am to 4:00pm to assess the site condition, work involved and site constraints for executing the work with the permission of EIC/ officials of production department.

The bidders are advised to study the labour supply/availability, trade union practices and labour rates prevailing at Udyogamandal

## **9.0 PRE-BID MEETING**

9.1 The pre bid meeting shall be conducted on 30.08.2025 as online/offline at IREL, RED, Udyogamandal. Online details will be send to the party based on the response through mail to IREL.

9.2 Purpose of pre-bid is to invite clarifications (if any) from the interested experienced agencies regarding the Minimum technical specifications, Scope of work, other terms & conditions related to this tender. Also, to know the site condition and labour practice followed at Eloor industrial belt before submitting the quote.

## **10.0 WARRANTEE**

The Warrantee shall be for material, workmanship and performance for a period of 12 months from the date of commissioning.

## **11.0 TERMS OF PAYMENT:**

### **11.1 Running Bill**

11.1.1 No advance payment shall be made.

11.1.2 Interim payment will be made within 30 days against running bills at Seventy (70) percent less statutory deductions of the value of part of work executed as per BOQ duly certified by EIC.

### **11.2 Final Payment**

Final contract price including Twenty Five (25) percent of running bill less statutory deductions based on work actually performed, will be paid within 30 days after completion of work in all respects, issue of taking work completion certificate from EIC/ IREL, reconciliation of its use/return, clearance of site and removal of temporary structures & debris and settlement of all pending claims on account of contractor, after adjustment for the following:

11.2.1 Deduction of all previous payments made

11.2.2 Recovery of value of departmental supplies including penal recoveries, if any

11.2.3 Recovery of Liquidated Damages, if any due

11.2.4 TDS or GST (If applicable)

At the time of final Payment, the Contractor shall submit a Clearance Certificate from the IREL through the ENGINEER-IN-CHARGE of the WORK.

### **11.3 Retention Money**

5% amount of total order value shall be kept under retention till completion of guarantee period. Guarantee period shall be 12 months from date of completion of work in all respect and clearance from IREL regarding quality of material supplied and workmanship

## **12.0 ENGINEER-IN-CHARGE (EIC)**

Shri. Amith P C, DM-Technical (Production) will be the EIC for the work

## **TECHNICAL REQUIREMENTS**

### **1 MSFRP TANK AND ACCESSORIES FABRICATION**

The tanks and agitator assemblies shall be designed and fabricated as per latest standards as well as in accordance with good engineering practice.

#### **1.1 Materials of construction:**

All materials, equipments used in the contract shall be new. The steel material used for manufacture shall be of tested quality and shall confirm to the specification indicated in the data sheets. Re rolled sheet shall not be used for fabrication. Proof of purchase of material from make listed above shall be produced by the contractor.

Make of steel: SAIL/TISCO/Essar/Jindal/RINL/Tata steel make only

- 1.2 Circumferential reinforcement using ISA 75x75x6 shall be provided at the top, bottom and centre of the tanks as per tentative drawings and shall be fully welded. The top reinforcement angle can be used as flange for fixing cover plates by providing bolt holes of 16mm diameter along the circumference.
- 1.3 The tank shell shall be adequately stiffened and provided with reinforcement pads wherever required. Covers shall be of separate segments for easy removal. Lifting lugs have to be suitably provided.
- 1.4 The nozzle flanges shall be fabricated out of mild steel plates conforming to IS: 2062. The flanges shall be slip on type with flat face having dimensions to ANSI-B.16.5, 150 lbs rating. All nozzle projections shall be 150 mm unless otherwise indicated in vessel data sheets. In case where it is brazed with the channel support, it should be minimum 150 mm above the channel support.
- 1.5 Tentative nozzle schedule is indicated in the tank data sheet. Final size, numbers and orientation will be furnished at the time of approval of fabrication drawings.
- 1.6 Manual Metal Arc welding process shall be employed using ISI approved electrodes in accordance with IS: 814.
- 1.7 Welding shall not be done on surfaces which are wet or exposed to main or excessive draft. Surfaces to be welded shall be free from paint, rust, oil, grease, dust or any other contamination.
- 1.8 Welds shall be cleaned between passes to remove all traces of slag and flux before successive beads or layers are deposited. The welds shall be ground smooth and flush on the side.

### **2.0 FRP LINING**

- 2.1 The fabricated tanks, grid plates, supports and agitator assemblies shall be internally lined with fibre glass reinforced plastic in Bisphenol resin as specified below. The tanks shall be lined internally covering all contact surfaces and agitator shaft, blades, baffles and gusset plates



shall be lined all around up to the bearing housing. The welds on the surface to be lined shall be ground smooth and flush.

- 2.2 The surfaces shall be thoroughly cleaned with the help of solvent suitably and sand blasted to grade S.A 2.5 prior to FRP lining.
- 2.3 The FRP lining shall be done with minimum five layers of chopped strand mat of 450 gm/sq.m. and 1 layer of surface mat in Bisphenol resin on tank inner surfaces, nozzles and cover plate inside surfaces. The FRP lining thickness shall be minimum 5 mm. Air traps shall be avoided at all joints & corners of the tank.
- 2.4 The lined surfaces of the vessel and agitators shall be reasonably smooth and without any crevices.
- 2.5 The lined surfaces shall have gel coat smooth finish. Sufficient time interval for drying may be provided between application of subsequent layers of resin, chopped strand mat and surface mat.
- 2.6 Data sheet:

The tank with agitator-motor assembly units is to be supplied as per the technical data sheet and approved drawings.

### 3 **PAINTING:**

Paints shall be applied in accordance with manufacturer's recommendation as supplemented by this specification. The work shall generally follow IS: 1477 (Part II). Prior to applying finish painting, damaged and defective shop coats shall be touched up with same type of paint as used for shop coat. The work shall include removal of the damaged paint work, surface preparation of all exposed area either due to damage of shop coat or due to site fabrication work and application of paint. If in the opinion of IREL, or his authorized representative, the damage to the shop coat is extensive, and then instead of spot touch up, one overall coat of primer shall be applied for each shop coat, after cleaning. Surfaces which have not been shop coated but require to be painted shall be given the necessary surface preparation and prime coats at site.

- (a) **Surface cleaning:** All external surfaces of tank (not coming in contact with process fluid) shall be cleaned of loose substance and foreign material e.g. Dirt, rust, scale, oil grease, welding flux etc.
- (b) **Painting:** tank has to be painted with- minimum **one coat of rust convertor**.
  - After drying the tank is to be given **a coat of chemical resistant epoxy primer**
  - Then **minimum two coat of chemical resistant epoxy paint of dark grey colour**.  
After the erection/ assembly of structures and equipment at plant site,
- a) **Measurement of painting thickness:** The DFT (dry film thickness) shall be 105µm (micron) after full coat painting.  
The contractor shall arrange DFT meter and paint thickness has to be measured at site with EIC, and if found less it has to be painted to attain the final 105µm (micron) DFT.

#### 4.0 Technical Specifications for motors of agitator assemblies:

Squirrel cage Induction Motors with Enclosure, TEFC conforming to protection IP 55 Horizontal Foot Mounted (B3), continuously rated (S1) suitable for operation on 415+/- 10% V, 50Hz+/- 5% AC 3 Phase supply, 15 HP, 1440 rpm, IE-3 Class, Ambient 50°C, Class "F" insulation with temperature rise limited to Class "B" altitude less than 1000 m above mos.. Performance Efficiency values are conforming to IS12615 / IS/IEC 60034 with its latest amendments.

#### PREFERRED MAKE OF BOUGHT OUT ITEMS / MANUFACTURERS

M.S.Sheets : SAIL, TISCO, Essar, Jindal, RINL, Tata Steel.  
Motor : Crompton Greaves / Siemens / Kirloskar / Bharat Bijli.  
Gear : Premier Gears (Formerly Radicon) / Shanti / Elecon / Allroyd/Power  
build Bearings : SKF, FAG, ZKL, NTN.  
Coupling : Love-Joy or equivalent  
FRP-Resin : Naptha, Golden, Ecmas, Mechemco.  
Glass mat : Binani, OCV reinforcements, Saint Gobain.  
Paint : Nerolac, Asian Paint, Shalimar, Berger, Arkoy  
Chequerboard : Western Indian Plywood or equivalent or Certified by EIC

#### 5.0 INSPECTION AND TESTING

- 5.1 IREL reserves the right to inspect the tanks after fabrication and/or after FRP lining at contractor's site.
- 5.2 The manufacturer shall conduct all tests required to ensure that the equipment furnished shall conform to the requirements of the applicable codes and submit the test reports to IREL. All dimensions and nozzles shall be as per approved drawings. All materials used in the contract shall be of the makes mentioned.
- 5.3 Hydraulic test: After completion of fabrication work, party shall fill water upto 90% of the tank cylindrical height and will check for leakage. Necessary modification/repair shall be done to arrest any leakage, if any at no extra cost to IREL.
- 5.4 The tanks after FRP lining shall be subject to the following tests:
  - 5.4.1 Thickness test: Thickness of FRP lining by thickness meter/measurement of cut sample at random points as instructed by EIC
  - 5.4.2 Spark test: After the lining work spark test at the rate of 4KV/mm shall be conducted by the Contractor. Necessary repair/modification shall be done by the Contractor at no extra cost to IREL
- 5.5 After the agitator and grid plate assemblies are installed on the tanks, they shall be mechanical run tested for smooth operation. The agitator shall be run for a minimum of 8 hours' time with tank full of water up to working level. There should be no undue noise and heating of bearing housing, gear or motor.
- 5.6 The Contractor's representative must be present during the performance trials. Any defects noticed must be rectified by providing suitable modifications or additional provisions for smooth and reliable operation. On satisfactory completion of the performance test as stipulated above, the tank and accessories will be accepted by IREL
- 5.7 The date of acceptance of the tank and accessories as well as completion of work as per Work order shall be considered as the date of satisfactory completion of the performance test.

## 6.0. LIST OF APPROVED MATERIALS

### 6.1 Part A –Civil work

1	Ready Mix Concrete	Ultra Tech/ ACC/ RMC Ready Mix India Pvt Ltd/ Neptune or Equivalent having in-house testing lab facility
2	Structural Steel & Reinforcement (HYSD) bar	SAIL/TATA/ VIZAG/RINL/ ESSAR/ JINDAL/JSW
3	Cement	ACC, Malabar, Ultra Tech, Ambuja, Birla, Chettinadu, Ramco, Coromondal, Zuari, Dalmia& India Cements (Not applicable for ready-mix concrete).
4	UPVC rain water gutter	Aqua star / Aizar / Euroguard
5	PVC down take pipes	Finolex / Astral / Supreme
6	Self-tapping Screws	Tata / EJOT / Hilti
7	Resin (for FRP lining)	NaphthaResins, Golden Resins, EcmasResins, Mechemo
8	Glass fibre mat / veil (for FRP lining)	Binani, Saint Gobain, Owens Corning
9	Epoxy primer &Paint	Asian / Berger / Sika / BASF/ FOSROC/ GrandPolycoats / Arcoy / Nerolac

### 6.2 Part B-Mechanical Work

1.	Reinforcement	SAIL/TATA/TISCO/ VIZAG/RINL, ESSAR, JINDAL/JSW
2.	Micro Concrete	BASF/FOSROC/SIKA/PIDILITE
3.	Rust Remover	FOSROC/BASF/SIKA
4.	Rebar anchoring mortar	Master flow 935 of BASF or equivalent FOSROC/SIKA/HILTI
5.	Epoxy zinc rich primer	FOSROC/BASF/SIKA
6.	Epoxy bonding compound	BASF/FOSROC/SIKA/PIDILITE
7.	Acrylic curing compound	Masterkure181 of BASF make or equivalent FOSROC /SIKA
8.	Non shrinkage grouting mortar	Fosroc GP or equivalent BASF / SIKA.
9	PU / Epoxy chemical resistant coating	BASF / SIKA / FOSROC
10	Chequerboard	Western Indian Plywood/ Equivalent/Certified by EIC

<b>TECHNICAL DATA SHEET</b>		
<b>30 m<sup>3</sup> capacity conical bottom MSFRP Tank</b>		
1	Type	Vertical cylindrical with conical bottom complete with cover plate and supports.
2	Capacity	30m <sup>3</sup>
3	Quantity	2 No.
4	Inside Diameter	3.2 m
5	Vertical height	3.35 m
6	Conical height	0.850 m
7	Specific gravity	Slurry Mixture: 1.20 to 1.60; Liquid: 0.997-1.40; Solid: 2.6-2.7.
8	Nature of slurry / solution to be handled	Acidic in nature
9	Operating conditions	Ambient temperature and Atmospheric pressure
10	Design Temp./Pressure	55-degree C / hydrostatic
11	Material of Construction (M.o.C) & other details	
a	Shell, Top Cover and Bottom	MS confirming IS2062 with FRP lining as per specification with FRP Feed tray/hopper and grid on the top cover.
b	Internals	MS confirming IS2062 with vertical portion 5 mm thick FRP , conical portion 6 mm thick FRP
c	Baffles	MS confirming IS2062 with inside 5mm thick FRP, 4 nos., 2700 mm x 150 mm
d	Nozzles	6 Nos., MS confirming IS: 1239 with inside 5mm thick FRP lining
e	Gaskets	Flexible PVC
f	Bridge & leg supports	Minimum ISMC 200
12	<b>Plate thickness</b>	
a.	Conical	8 mm
b.	Shell	6 mm
c.	Top cover	6 mm
13	<b>Agitator</b>	
a.	Type	Standard disc type agitator 950 mm dia
b.	Drive Motor power requirement / RPM	<b>15 HP / 1440 RPM</b>
c.	Gear ratio	<b>20:1</b>
d.	M.o.C, Impeller	MS confirming IS 2062 with 8mm thick FRP lining
f.	M.o.C, Shaft	EN8 with 8mm thick FRP lining
g.	Coupling-Gear Agitator	to Rigid

**Specification for HDPE pipes & fittings, Size 32 mm to 110 mm**

Pipe HDPE (32-110mm) OD, IS 4984, 1995, PN 10, Material grade PE 80, Preferred make- Astral/Supreme/ Keerthi/ Kodoor

**Specification for Polypropylene ball valve (Class150) with flanged ends**

Type- Ball valve

Ends- Flanged

Valve size (mm)	32	40	50	65	80	65	80	100	150
End to end dimensions*(mm)	40	123	155	175	200	227	260	310	420

Flange drilling (confirming to ANSI B 16.5 standards)

B.C.D.(mm)	60	70	79	98	121	140	152	190	241
No of holes	4	4	4	4	4	4	4	8	8
Hole dia(mm)	16	16	16	16	20	20	20	22	22

\*end to end dimensions are subjected to tolerance of +/-10mm

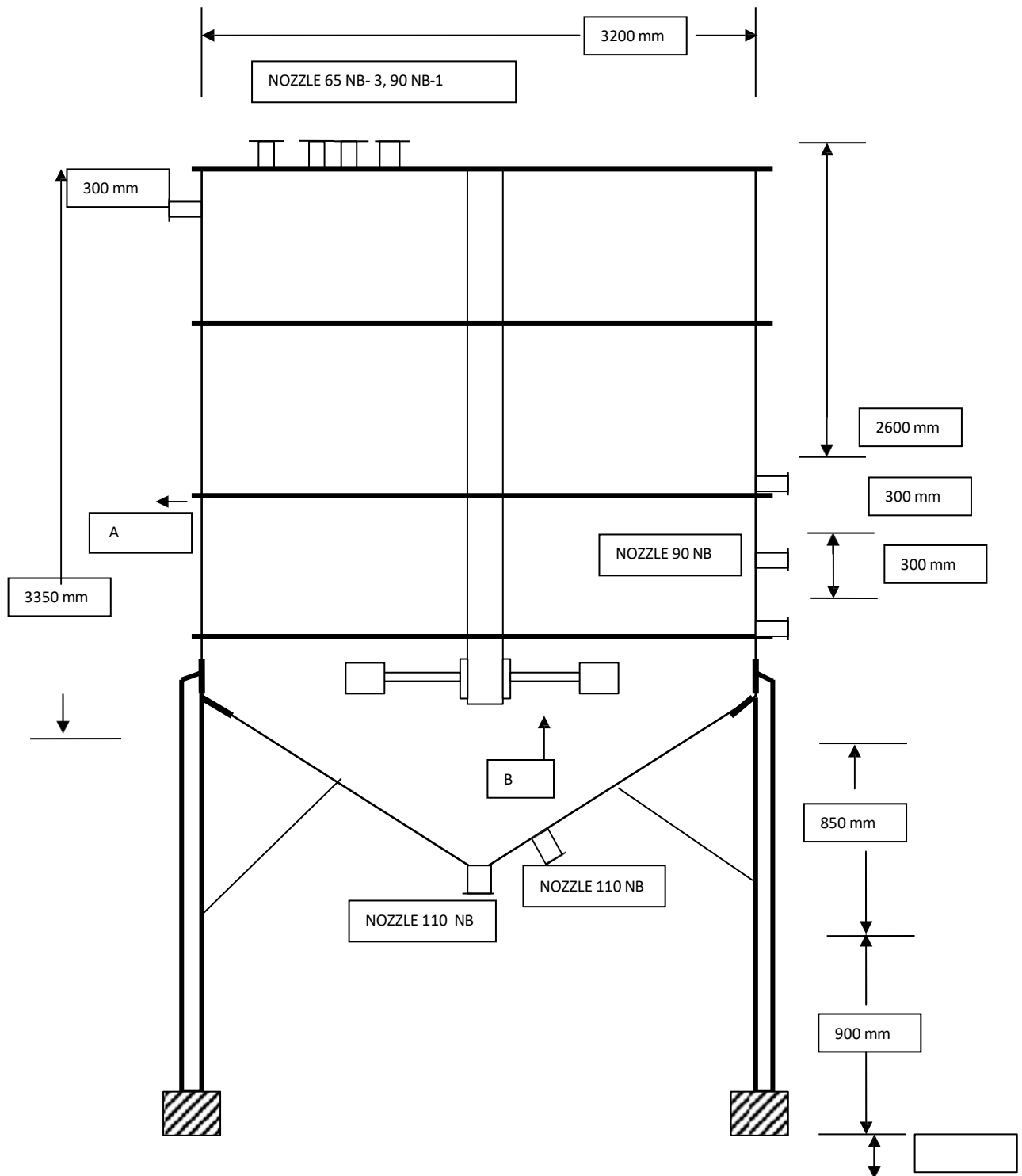
Construction- Three piece construction with bolted body, both ends of bolts must be capped with PP nut caps, operated by lever/handle with quarter turn stopper.

**Material of construction:-**

Body and body connector	-Virgin
polypropylene Ball	-Virgin
polypropylene	
Seat	-PTFE
Stem	-Polypropylene reinforced with MS
Body seal	-Neoprene/PTFE gasket
Gland packing & stem seal	-Teflon bushing with Neoprene O
ring Handle	-MS coated/covered with PP

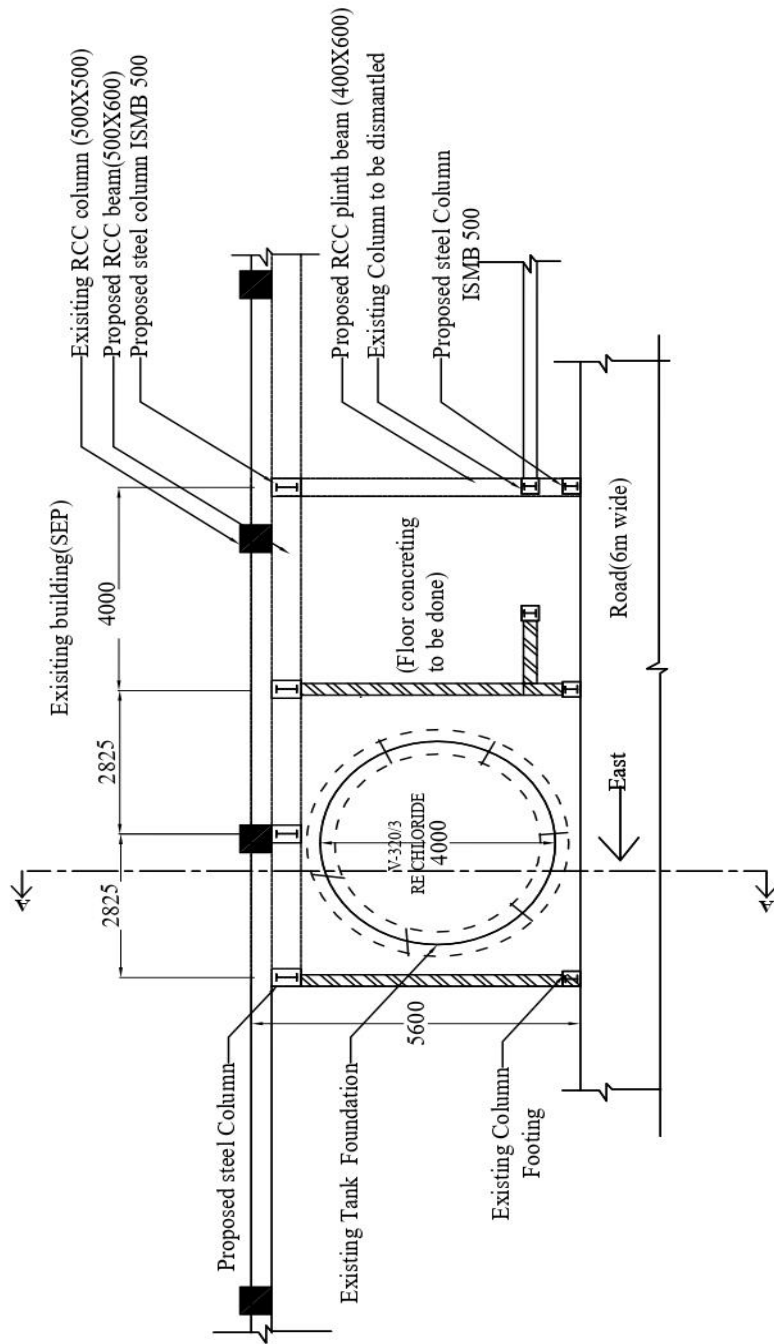
**Inspection** -Pre delivery inspection by the contractor and post delivery inspection by EIC/ IREL (India) Ltd

**Preferred make** -UNP Polyvalves/ Classic/ DPP/ Parixit/ Hindustan/ Parth/ CPI/ Chamunda

DRAWINGSTANK 30 m3 Capacity

A	Stiffening rings , 3 nos.	B	Disc Type agitator, 950 mm dia MS 8 mm FRP lined
---	---------------------------	---	--

LEAN SHED DRWAING PLAN



NOTE:-

1. All Dimensions are in mm, unless noted otherwise.
2. The height of structure/levels shown in the drawing are approximate measurements.
3. The fabrication & erection of structural steel sections shall be carried out suitable to the existing site conditions and as directed by the Engineer-in-charge.
4. All site constraints such as FRP duct, pipe rack, cable tray shall be re-routed or modified as per site condition & requirement for the proposed work for erection of MS structural columns.
5. The bidder shall inspect the proposed site before quoting.
6. The detailed drawing shall be prepared by the bidder as per site conditions and as directed by EIC.
7. The structural steel sections/size of members shown is tentative drawing. The successful bidder have to check as suits to site condition after preparing detailed structural drawing as directed by EIC
8. Tentative drawing only for tendering purposes

PLAN

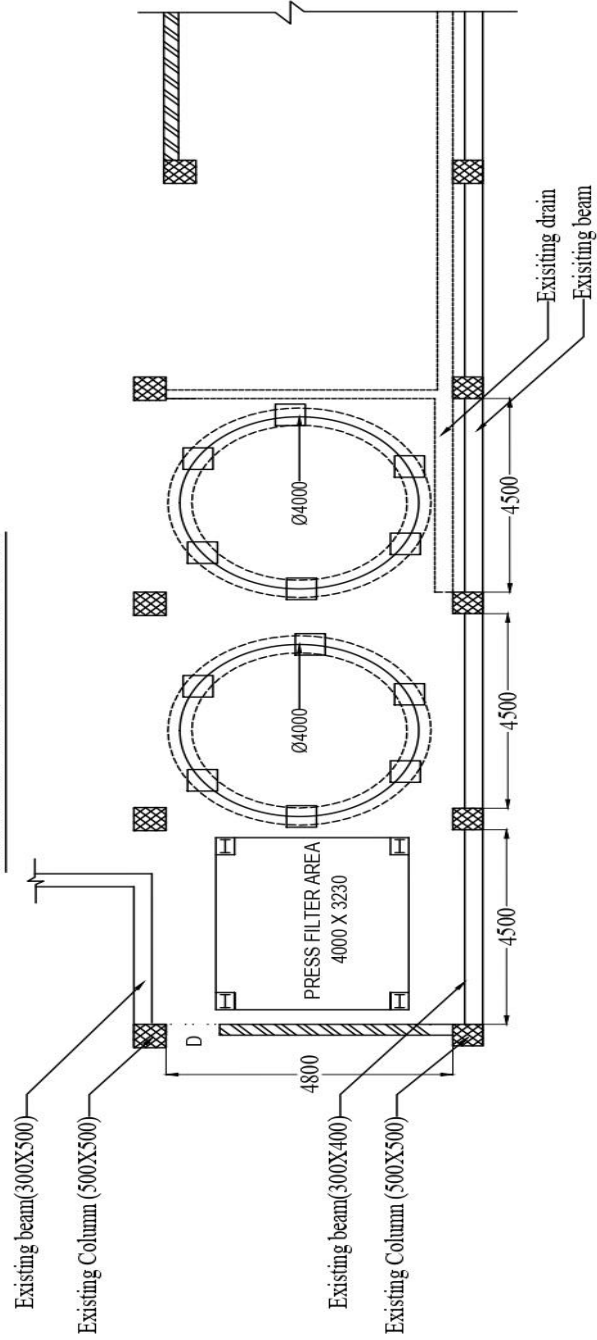


IREL (India) Limited  
R.E. DIVISION, UDYOGAMANDAL.

Date	30.06.2025
Scale	NTS
Drawn	P A
Checked	A S
Apprvd.	K S L
Dwg.No. IRE/RED/Civil/01	
Sheet	
1 of 2	

LAYOUT OF LEAN TO  
SHED AT SEP

PROPOSED PLAN FOR 30M3 TANK



PLAN

NOTE:-

1. All Dimensions are in mm, unless noted otherwise.
2. Tentative drawing only for tendering purposes.

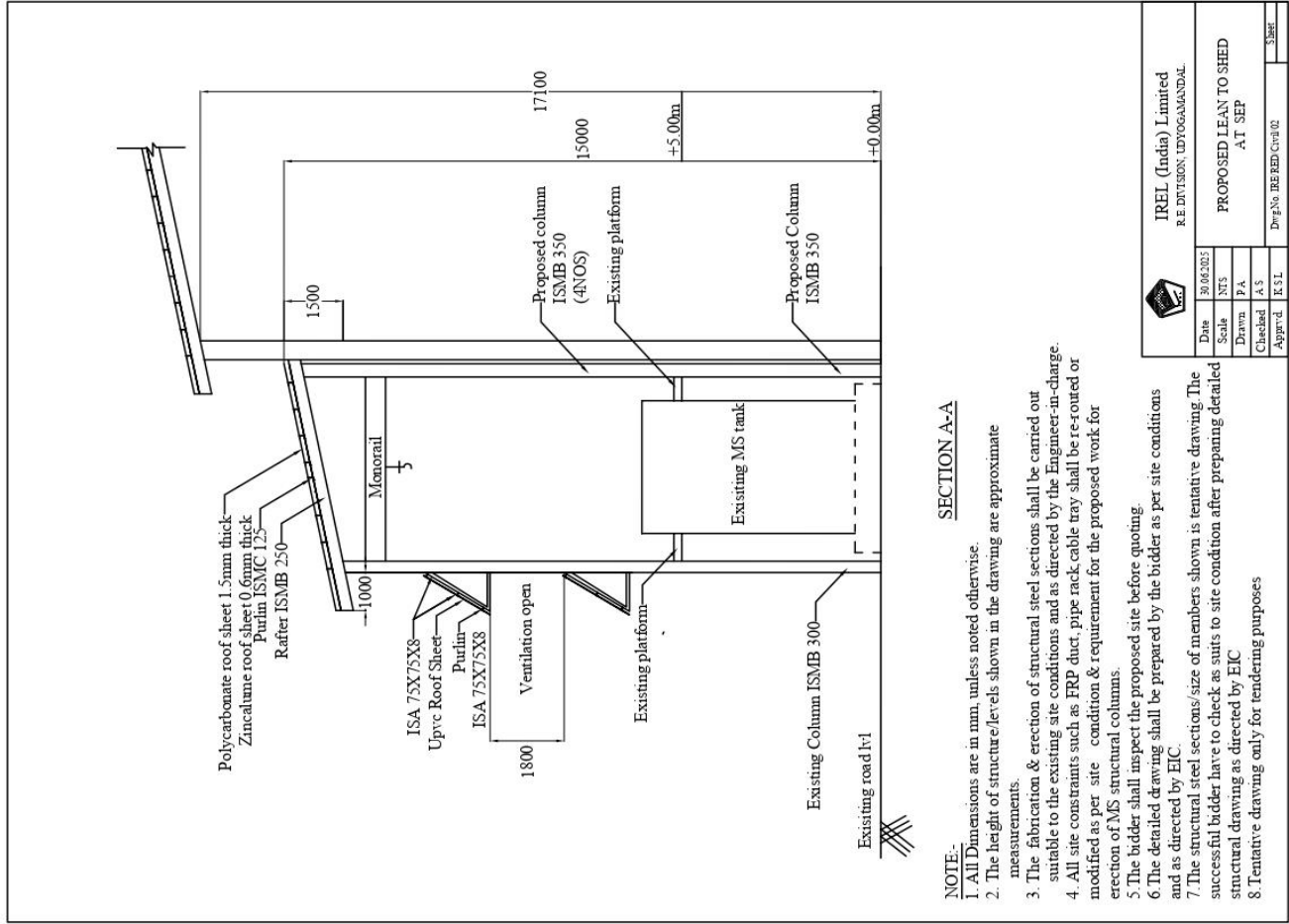


**IREL (India) Limited**  
R.E. DIVISION, UDYOGAMANDAL.

Date	30.06.2025	SEP-GF-PLAN OF 2 Nos OF MS TANK (30m <sup>3</sup> ) & PRESS FILTER			Dwg.No. IRE/RED/Civil/01	Sheet 1 of 2
Scale	NTS					
Drawn	PRIYANKA					
Checked	ASHWIN					
Apprvd.	K.SANKAR					



## LEAN SHED DRWAING SECTION



**BILL OF QUANTITIES (BOQ)**

Sl. No	Description of work	Qty	Unit
<b>Part A- Civil Work</b>			
1	<p>Dismantling, chipping, removal of concrete floor/brick masonry etc., using portable heavy-duty concrete breaker machine/ jag hammer or manually including cutting of re- bars using grinder/gas cutter &amp; removing of all debris generated. The waste generated during the work shall be shifted to location shown by EIC, dumping, leveling as directed within a distance of 750m inside factory premises.</p> <p><i>The rate shall include the hire charge of breaker machines, vehicles and tools required for the work, gas cutting set, transportation of waste, Scaffolding, labour charges etc., required for the complete work.</i></p>	21	m <sup>3</sup>
2	<p>Removing, lowering, stacking of all type of roof sheets AC (Asbestos Cement), Polycarbonate, uPVC sheet, cladding sheets, louver sheets including ridges, other accessories &amp; screws using all necessary tools, equipment, scaffolding, working platforms at required height as directed by Engineer-in-charge.</p> <p><i>The rates shall include labour charges, scaffoldings, working platforms, shifting of used items at designated location as directed by EIC, transporting the unused scrap items dismantled material to scrap yard or disposal yard directed by EIC etc., required for the complete work.</i></p>	100	m <sup>2</sup>
3	<p>Dismantling of MS structural by appropriate cutting method (cold cutting/gas cutting etc.) The work includes cutting, removing of MS structural like columns, beam, platform, purlins, rafters, cladding, louvers etc by using necessary scaffolding at required height and disposes the dismantled items in to the scrap yard, complete as directed by Engineer-in-Charge. The existing damaged structural steel items shall be cut in to 4.0m &amp; weighed in our weigh bridge before dispose in to scrap yard.</p> <p><i>The rate shall include labour charges for dismantling of damaged structural members, including cost of gas cutting and welding, scaffolding charges, tools &amp; other consumables etc., for carrying out the complete work.</i></p>	3	Ton

4	<p>Earthwork excavation by manual or mechanical means &amp; as directed by EIC, in all classes of soil up to a depth of about 2 m from the existing earth level &amp; as required to suit site conditions including removing all waste materials, vegetation's, scraps etc., which comes in proposed area the surface suitable for concreting, shifting of excavated soil from the site and then bringing back the same partly for refilling purpose at required places up to the top level as directed by EIC etc., complete.</p> <p><i>No extra charges are payable for shifting, transportation, etc.(No extra quantity for working space more than 30 cm from the edge of PCC will be measured and paid.)</i></p>	8	m <sup>3</sup>
5	<p>Providing and laying in position plain cement concrete mix 1:3:6 (1 cement, 3 coarse sand and 6 graded broken stone aggregate 20-40mm nominal size) after ramming of existing earth, well compacted, side shuttering, finishing smooth to a fair face at all levels, curing etc., complete.</p> <p><i>The rate shall include cost of all materials including cement, labour charges, mixing, laying, cleaning, lead &amp; lift of all materials, electrical &amp; diesel vibrators etc., to carry out the complete work.</i></p>	7	m <sup>3</sup>
6	<p>Supply &amp; Laying reinforcement High yield strength deformed (HYSD) bars Fe 500 D grade, cutting to required size, bending &amp; placing in position, binding with 18/20 gauge black annealed /GI tying wire, including lead, lift of reinforcement to site, laying as directed by Engineer-in-charge (Weight of steel bar shall be taken as per relevant IS standard).</p> <p><i>The rates shall include labour charges, cost of reinforcement, &amp; binding wire, tools, etc., for carrying out the complete work.</i></p>	4.2	Ton
7	<p>Anchoring of new re-bars at location directed by EIC in the RCC columns &amp; beams wherever required by using pure epoxy resin anchoring mortar (Master flow 935 of BASF or equivalent FOSROC/SIKA/HILTI) with diameter 12mm to 25 mm of drilling of holes required for proper bonding into the concrete etc., complete.</p> <p><i>The rate shall include cost of epoxy resin anchoring mortar, labour charges, cost/hire charges of tools, machineries &amp; other working implements etc., to carry out the complete work.</i></p>	50	Nos
8	<p>Providing shuttering / formwork for which includes raft, column pedestal for tanks, wall, beams, floor slab sides, etc., using plywood with sufficient wooden runners or MS sheets with enough strength to withstand the load of mechanical vibrator during compaction of concrete.</p> <p><i>The rates shall include labour charges for fixing and removal of formwork after use, rental charges / cost of materials, transportation etc., required for the complete work.</i></p>	26	m <sup>2</sup>

9	<p>Providing and laying M 30 grade ready mix concrete for flooring 75-150mm thick (approx) with minimum cement of 380 kg/m<sup>3</sup> by using 20 mm downgraded broken stones, mechanically vibrated, consolidated, curing, smooth finishing, levelling, slope towards the edge, including usage of quality material as approved, cost, conveyance, lead, lift of all materials, labour, including chipping and cleaning the entire surface etc., but excluding cost of formwork which will be paid separately under relevant item.</p> <p><i>The rate shall include labour charges &amp; cost of all materials, tools, electric &amp; diesel vibrators accessories etc. for carrying out the complete work.</i></p>	40	m <sup>3</sup>
10	<p>Supply &amp; fixing MS bolts &amp; nut, washer plate of 25mm/32mm dia with 800mm length &amp; about 175mm thread at top in RCC foundations, providing 4 nos of bolt in each column, 1 no in tank pedestal as directed by Engineer In Charge. Suitable templates have to be made &amp; fix before concreting to keep the spacing of foundation bolts in proper line &amp; levels, alignment.</p> <p><i>The rate shall include cost of all material &amp; labour charges for fixing etc., required for complete work.</i></p>	100	kg
11	<p>Supply, Fabrication &amp; erection of MS structural supports such as columns, rafters, tie beams, purlins, wind bracing, cross bracing, roof supports, side cladding angles, louvers, supporting cleats, stiffeners, battens, joint plates, ladder/stair case and other supports etc., for providing new roofing as well as modification&amp; extension of MS supports from adjacent lean to shed, enhancing the height of MS columns as suit to existing site condition which includes cutting, straightening, welding etc. for carrying out the complete work. The MS roof structural shall be painted with one coat of high build epoxy primer &amp; two coats of chemical resistant chlorinated rubber based finish paint after thorough cleaning / surface preparation using wire brush/scrapper/chisel and buffing with steel brush cup type fitted in angle grinder. The rate shall include cost of all materials, labour charges for fabrication of new MS structural, including gas cutting &amp; welding set, consumables, bolt &amp; nuts, modification/extension of structural members in the existing roof setup etc., for completion of the entire work in all respects.</p> <p><i>The rate shall include cost of all materials, labour charges for fabrication and erection of new members to suit site conditions including cost of gas cutting and welding, bolting at required areas in purlins and truss members, scaffolding charges, tools &amp; other consumables etc., for carrying out the complete work.</i></p>	9	Ton

12	<p>Supplying, providing, laying and fixing of industrial profile PVC roof sheet 1.9mm thick white colour, (overall width of 1063mm and crest height of 40mm with centre to centre crest of 250mm),fixing with suitable size aluminium alloy mill finish cyclonic / storm washer on crest of sheet profile, SS304 self - tapping screws, FRP flats and apply weather proof silicon joint sealant to make the roof leak proof, to suit the existing M.S. angle/channel, purlin, in required shape/length etc. to suit for existing site conditions and roof setup as per standard specification and as directed by Engineer -in -charge.</p> <p><i>The rate shall include cost of all materials, labour charge, scaffoldings, working platforms, fasteners, tools required for the work etc., for carrying out the complete work.</i></p>	168	m <sup>2</sup>
13	<p>Providing Plastering in CM 1:4, 12 mm thick average in masonry structure wherever required, mixing &amp; application of mortar, finishing smooth, proper line &amp; level all required for completion of work as directed by EIC.</p> <p><i>The rate shall include labour charges, cost of all materials including cement, M-sand, scaffolding / platform work for carrying out the complete work.</i></p>	10	m <sup>2</sup>
14	<p>Providing FRP lining in the joints of roof sheet in masonry structure by cutting groves to 30mm, providing GI plain sheet 1mm thick flashing sheet in length without joints, sealed with quick setting shrinkage compensated grouting material, applying two layers of chopped strand glass fiber mat of 450 GSM and one layer of surface mat with pigment coating in Isophthalic resin after thorough cleaning the surface using sweeping brush, make the surface dust free and joints leak proof.</p> <p><i>The rate shall include cost of all materials, labour charges, hire charges of tools &amp; machineries, scaffoldings &amp; platforms required for the work etc., for carrying out the complete work.</i></p>	15	m <sup>2</sup>
15	<p>Supply and installation of uPVC gutter of size of about 320X250mm of length 3m each for diverting rainwater from roof and a weight 3kg per meter with a holding capacity of 52 liter/metre as directed by Engineer In - charge. Gutter shall be laid with sufficient slope (1 in 50 to 1 in 100 suitable to the site set -up) from the starting end to discharge end. The work also include supply &amp; fixing accessories such as UPVC coated GI clamp @ 60cm spacing welding MS purlin to proper line, fitting the Joint clamp suitably by weather resistant grade sealant and make leak proof etc., as per manufacturer recommendations &amp; as directed EIC to complete.</p> <p><i>The rate shall include labour charges &amp; cost of all materials, hire charges of tools &amp; machineries required for the work, consumables etc., scaffolding charges, safety tools and appliances, standard working platforms, ties etc., for carrying out the complete work.</i></p>	12	Running Meter

16	Supply & fixing PVC pipe of 140mm dia or nearest, 4 kg/cm <sup>2</sup> pressure rating for rain water down take from roof gutter, including suitable specials such as bends, tees, elbows etc., required for the work suit to site setup, placing at site in position using GI threaded rod of minimum dia 7mm, sliding rail on both side of flange of MS column, U clamps, bolts, nuts with washer, necessary jointing to proof leak, slopping to drain etc., accessories for the roof set -up and sealing them, necessary anchoring, clamping, grouting to the masonry structure etc., all required for the completion of work and as directed by Engineer -in -Charge with prior approval for all fittings.  <i>The rate shall include labour charges &amp; cost of materials, Scaffolding charges, cost of staging / working platform, lead &amp; lift of materials, tools etc., for carrying out the complete work.</i>	30	Running Meter
<b>Part B: Mechanical Work</b>			
<b>1.Fabrication, Supply, Erection and Commissioning of 2numbers each of 30m<sup>3</sup> MSFRP tank</b>			
17	Fabrication and supply of 2 numbers each of 30m <sup>3</sup> MSFRP conical bottom tanks with agitator along with all accessories as per scope of work, attached technical sheet and approved drawing	2	Nos
18	Erection and FRP lining of 2 nos each of 30m <sup>3</sup> MSFRP Conical bottom tanks as per scope of work	2	Nos.
19	Commissioning including painting of 2nos each of 30m <sup>3</sup> MSFRP Conical bottom tank with agitator and other accessories as per scope of work, attached technical sheet and approved drawing	2	Nos.
<b>2.Erection and Commissioning of one number of Filter press</b>			
20	Erection and commissioning of filter press with associated piping's, fittings and support as per drawing  IREL Shall provide the filter press	1	Lumpsum
<b>3. Supply, Fabrication, Erection and Commissioning of Monorail and associated MS Structures and supply of 1 ton Electric Hoist:</b>			
21	Supply, Fabrication. Erection and Commissioning of MS structural supports such as I-Beams, tie beams, monorails, stiffeners, battens, joint plates and other supports etc., in bolted construction as per attached drawing and as directed by Engineer-in-charge.  The fabrication work includes leading the material to work site, straightening, cutting, grinding the edges, painting the steel	3	Tons

	<p>surface with one coat of epoxy primer (zinc phosphate) &amp; two coats of high build epoxy finish paint after thorough surface preparation using cup brush fitted with angle grinder etc., complete. If any paint touch-up is required after erection, this has to be done by the contractor. Weighing slip of the material brought inside from the company weigh bridge to be submitted to EIC.</p> <p>The erection work includes fixing in position, welding in batten plates, MS bolts for connections, providing good quality anchor bolts at required area using suitable numbers &amp; size over the RCC structure if required etc.,</p> <p>The rate shall include cost of all materials, fabrication, gas cutting, welding, cost of paint brush, tools and other consumables etc., for carrying out the complete work.</p>		
22	Supply of 1 No. of 2 Ton electric wire rope hoist	1	No
<b>4. Fabrication &amp; Erection of MS Platform Structures for, 2 nos. of 30m<sup>3</sup> Process Tanks and one filter press:</b>			
23	<p>Fabrication, erection and painting of MS structures for providing platform supports for 2 nos. of 30m<sup>3</sup> Process Tanks and one filter press and for providing working platform with handrails, staircases and toe guards suiting site conditions or as per the instruction of EIC.</p> <p>Fabrication, Installation and Painting (as mentioned above) of Pipe Racks and Pipe Supports, suiting to site conditions or as per the instruction of EIC.</p>	5	Tons
24	Supply, Cutting and fixing of wooden chequered boards (western Indian Plywood or equivalent or Certified by EIC) of required size and shape of minimum 18mm thickness on MS frames as part of providing working platforms suiting site conditions and as per the instruction of EIC.	45	Sq.m.
<b>5. Supply and laying of HDPE Pipes, Fittings and associated works for one no. of 50m<sup>3</sup>, 2 nos. of 30m<sup>3</sup> Process Tanks, one filter press, two centrifugal pump and one 4inch ODS pump:</b>			
25	Supply, Fabrication and erection of HDPE Pipe lines of various size with fittings and necessary supports. Size: 25mm to 110mm diameter	47	Running Meters
26	Supply and Fitting of various size of PP Ball valves - 1" to 4" size with necessary supports.	10	Nos

27	<p>Installation/ Relocation of four numbers of pumps of different types and one number of 1 ton Electrical Hoist as per the instruction of EIC.</p> <p>3 no. of Centrifugal Pumps, one no. of ODS 4 inch and one number of 1m<sup>3</sup> HDPE tank shall be provided by the IREL</p> <p>1 No. of electric wire rope hoist 2 Tons which is supplied in BOQ 3 .C has to be installed as per instruction of EIC in monorail</p>	6	Nos
----	---	---	-----

**DETAILS TO BE FURNISHED ALONG WITH THE OFFER**

Sl. No	Description of work	GST in %	HSN Code
1	<p>Dismantling, chipping, removal of concrete floor/brick masonry etc., using portable heavy-duty concrete breaker machine/ jag hammer or manually including cutting of re- bars using grinder/gas cutter &amp; removing of all debris generated. The waste generated during the work shall be shifted to location shown by EIC, dumping, leveling as directed within a distance of 750m inside factory premises.</p> <p><i>The rate shall include the hire charge of breaker machines, vehicles and tools required for the work, gas cutting set, transportation of waste, Scaffolding, labour charges etc., required for the complete work.</i></p>		
2	<p>Removing, lowering, stacking of all type of roof sheets AC (Asbestos Cement), Polycarbonate, uPVC sheet, cladding sheets, louver sheets including ridges, other accessories &amp; screws using all necessary tools, equipment, scaffolding, working platforms at required height as directed by Engineer-in-charge.</p> <p><i>The rates shall include labour charges, scaffoldings, working platforms, shifting of used items at designated location as directed by EIC, transporting the unused scrap items dismantled material to scrap yard or disposal yard directed by EIC etc., required for the complete work.</i></p>		
3	<p>Dismantling of MS structural by appropriate cutting method (cold cutting/gas cutting etc.) The work includes cutting, removing of MS structural like columns, beam, platform, purlins, rafters, cladding, louvers etc by using necessary scaffolding at required height and disposes the dismantled items in to the scrap yard, complete as directed by Engineer-in-Charge. The existing damaged structural steel items shall be cut in to 4.0m &amp; weighed in our weigh bridge before dispose in to scrap yard.</p> <p><i>The rate shall include labour charges for dismantling of damaged structural members, including cost of gas cutting and welding, scaffolding charges, tools &amp; other consumables etc., for carrying out the complete work.</i></p>		



4	<p>Earthwork excavation by manual or mechanical means &amp; as directed by EIC, in all classes of soil up to a depth of about 2 m from the existing earth level &amp; as required to suit site conditions including removing all waste materials, vegetation's, scraps etc., which comes in proposed area the surface suitable for concreting, shifting of excavated soil from the site and then bringing back the same partly for refilling purpose at required places up to the top level as directed by EIC etc., complete.</p> <p><i>No extra charges are payable for shifting, transportation, etc.(No extra quantity for working space more than 30 cm from the edge of PCC will be measured and paid.)</i></p>		
5	<p>Providing and laying in position plain cement concrete mix 1:3:6 (1 cement, 3 coarse sand and 6 graded broken stone aggregate 20-40mm nominal size) after ramming of existing earth, well compacted, side shuttering, finishing smooth to a fair face at all levels, curing etc., complete.</p> <p><i>The rate shall include cost of all materials including cement, labour charges, mixing, laying, cleaning, lead &amp; lift of all materials, electrical &amp; diesel vibrators etc., to carry out the complete work.</i></p>		
6	<p>Supply &amp; Laying reinforcement High yield strength deformed (HYSD) bars Fe 500 D grade, cutting to required size, bending &amp; placing in position, binding with 18/20 gauge black annealed /GI tying wire, including lead, lift of reinforcement to site, laying as directed by Engineer-in-charge (Weight of steel bar shall be taken as per relevant IS standard).</p> <p><i>The rates shall include labour charges, cost of reinforcement, &amp; binding wire, tools, etc., for carrying out the complete work.</i></p>		
7	<p>Anchoring of new re-bars at location directed by EIC in the RCC columns &amp; beams wherever required by using pure epoxy resin anchoring mortar (Master flow 935 of BASF or equivalent FOSROC/SIKA/HILTI) with diameter 12mm to 25 mm of drilling of holes required for proper bonding into the concrete etc., complete.</p> <p><i>The rate shall include cost of epoxy resin anchoring mortar, labour charges, cost/hire charges of tools, machineries &amp; other working implements etc., to carry out the complete work.</i></p>		
8	<p>Providing shuttering / formwork for which includes raft, column pedestal for tanks, wall, beams, floor slab sides, etc., using plywood with sufficient wooden runners or MS sheets with enough strength to withstand the load of mechanical vibrator during compaction of concrete.</p> <p><i>The rates shall include labour charges for fixing and removal of formwork after use, rental charges / cost of materials, transportation etc., required for the complete work.</i></p>		

9	<p>Providing and laying M 30 grade ready mix concrete for flooring 75-150mm thick (approx) with minimum cement of 380 kg/m<sup>3</sup> by using 20 mm downgraded broken stones, mechanically vibrated, consolidated, curing, smooth finishing, levelling, slope towards the edge, including usage of quality material as approved, cost, conveyance, lead, lift of all materials, labour, including chipping and cleaning the entire surface etc., but excluding cost of formwork which will be paid separately under relevant item.</p> <p><i>The rate shall include labour charges &amp; cost of all materials, tools, electric &amp; diesel vibrators accessories etc. for carrying out the complete work.</i></p>		
10	<p>Supply &amp; fixing MS bolts &amp; nut, washer plate of 25mm/32mm dia with 800mm length &amp; about 175mm thread at top in RCC foundations, providing 4 nos of bolt in each column, 1 no in tank pedestal as directed by Engineer In Charge. Suitable templates have to be made &amp; fix before concreting to keep the spacing of foundation bolts in proper line &amp; levels, alignment.</p> <p><i>The rate shall include cost of all material &amp; labour charges for fixing etc., required for complete work.</i></p>		
11	<p>Supply, Fabrication &amp; erection of MS structural supports such as columns, rafters, tie beams, purlins, wind bracing, cross bracing, roof supports, side cladding angles, louvers, supporting cleats, stiffeners, battens, joint plates, ladder/stair case and other supports etc., for providing new roofing as well as modification &amp; extension of MS supports from adjacent lean to shed, enhancing the height of MS columns as suit to existing site condition which includes cutting, straightening, welding etc. for carrying out the complete work. The MS roof structural shall be painted with one coat of high build epoxy primer &amp; two coats of chemical resistant chlorinated rubber based finish paint after thorough cleaning / surface preparation using wire brush/scrapper/chisel and buffing with steel brush cup type fitted in angle grinder. The rate shall include cost of all materials, labour charges for fabrication of new MS structural, including gas cutting &amp; welding set, consumables, bolt &amp; nuts, modification/extension of structural members in the existing roof setup etc., for completion of the entire work in all respects.</p> <p><i>The rate shall include cost of all materials, labour charges for fabrication and erection of new members to suit site conditions including cost of gas cutting and welding, bolting at required areas in purlins and truss members, scaffolding charges, tools &amp; other consumables etc., for carrying out the complete work.</i></p>		
12	<p>Supplying, providing, laying and fixing of industrial profile PVC roof sheet 1.9mm thick white colour, (overall width of 1063mm and crest height of 40mm with centre to centre crest of 250mm), fixing with suitable size aluminium alloy mill finish cyclonic / storm washer on crest of sheet profile, SS304 self - tapping screws, FRP flats and apply weather proof silicon joint sealant to make the roof leak proof, to suit the existing M.S. angle/channel, purlin, in required shape/length etc. to suit for existing site conditions and roof setup as per standard specification and as directed by Engineer -in -charge.</p> <p><i>The rate shall include cost of all materials, labour charge, scaffoldings,</i></p>		

	<i>working platforms, fasteners, tools required for the work etc., for carrying out the complete work.</i>		
13	<p>Providing Plastering in CM 1:4, 12 mm thick average in masonry structure wherever required, mixing &amp; application of mortar, finishing smooth, proper line &amp; level all required for completion of work as directed by EIC.</p> <p><i>The rate shall include labour charges, cost of all materials including cement, M-sand, scaffolding / platform work for carrying out the complete work.</i></p>		
14	<p>Providing FRP lining in the joints of roof sheet in masonry structure by cutting grooves to 30mm, providing GI plain sheet 1mm thick flashing sheet in length without joints, sealed with quick setting shrinkage compensated grouting material, applying two layers of chopped strand glass fiber mat of 450 GSM and one layer of surface mat with pigment coating in Isophthalic resin after thorough cleaning the surface using sweeping brush, make the surface dust free and joints leak proof.</p> <p><i>The rate shall include cost of all materials, labour charges, hire charges of tools &amp; machineries, scaffoldings &amp; platforms required for the work etc., for carrying out the complete work.</i></p>		
15	<p>Supply and installation of uPVC gutter of size of about 320X250mm of length 3m each for diverting rainwater from roof and a weight 3kg per meter with a holding capacity of 52 liter/metre as directed by Engineer In - charge. Gutter shall be laid with sufficient slope (1 in 50 to 1 in 100 suitable to the site set -up) from the starting end to discharge end. The work also include supply &amp; fixing accessories such as UPVC coated GI clamp @ 60cm spacing welding MS purlin to proper line, fitting the Joint clamp suitably by weather resistant grade sealant and make leak proof etc., as per manufacturer recommendations &amp; as directed EIC to complete.</p> <p><i>The rate shall include labour charges &amp; cost of all materials, hire charges of tools &amp; machineries required for the work, consumables etc., scaffolding charges, safety tools and appliances, standard working platforms, ties etc., for carrying out the complete work.</i></p>		
16	<p>Supply &amp; fixing PVC pipe of 140mm dia or nearest, 4 kg/cm<sup>2</sup> pressure rating for rain water down take from roof gutter, including suitable specials such as bends, tees, elbows etc., required for the work suit to site setup, placing at site in position using GI threaded rod of minimum dia 7mm, sliding rail on both side of flange of MS column, U clamps, bolts, nuts with washer, necessary jointing to proof leak, slopping to drain etc., accessories for the roof set -up and sealing them, necessary anchoring, clamping, grouting to the masonry structure etc., all required for the completion of work and as directed by Engineer -in -Charge with prior approval for all fittings.</p> <p><i>The rate shall include labour charges &amp; cost of materials, Scaffolding charges, cost of staging / working platform, lead &amp; lift of materials, tools etc., for carrying out the complete work.</i></p>		
17	<p>Fabrication and supply of 2 numbers each of 30m<sup>3</sup> MSFRP conical bottom tanks with agitator along with all accessories as per scope of work, attached technical sheet and approved drawing</p>		

18	Erection and FRP lining of 2 nos each of 30m <sup>3</sup> MSFRP Conical bottom tanks as per scope of work		
19	Commissioning including painting of 2nos each of 30m <sup>3</sup> MSFRP Conical bottom tank with agitator and other accessories as per scope of work, attached technical sheet and approved drawing		
20	Erection and commissioning of filter press with associated piping's, fittings and support as per drawing IREL Shall provide the filter press		
21	<p>Supply, Fabrication. Erection and Commissioning of MS structural supports such as I-Beams, tie beams, monorails, stiffeners, battens, joint plates and other supports etc., in bolted construction as per attached drawing and as directed by Engineer-in-charge.</p> <p>The fabrication work includes leading the material to work site, straightening, cutting, grinding the edges, painting the steel surface with one coat of epoxy primer (zinc phosphate) &amp; two coats of high build epoxy finish paint after thorough surface preparation using cup brush fitted with angle grinder etc., complete. If any paint touch-up is required after erection, this has to be done by the contractor. Weighing slip of the material brought inside from the company weigh bridge to be submitted to EIC.</p> <p>The erection work includes fixing in position, welding in batten plates, MS bolts for connections, providing good quality anchor bolts at required area using suitable numbers &amp; size over the RCC structure if required etc.,</p> <p>The rate shall include cost of all materials, fabrication, gas cutting, welding, cost of paint brush, tools and other consumables etc., for carrying out the complete work.</p>		
22	Supply of 1 No. of 2 Ton electric wire rope hoist		
23	<p>Fabrication, erection and painting of MS structures for providing platform supports for 2 nos. of 30m<sup>3</sup> Process Tanks and one filter press and for providing working platform with handrails, staircases and toe guards suiting site conditions or as per the instruction of EIC.</p> <p>Fabrication, Installation and Painting (as mentioned above) of Pipe Racks and Pipe Supports, suiting to site conditions or as per the instruction of EIC.</p>		
24	Supply, Cutting and fixing of wooden chequered boards(western Indian Plywood or equivalent or Certified by EIC) of required size and shape of minimum 18mm thickness on MS frames as part of providing working platforms suiting site conditions and as per the instruction of EIC.		
25	Supply, Fabrication and erection of HDPE Pipe lines of various size with fittings and necessary supports. Size: 25mm to 110mm diameter		
26	Supply and Fitting of various size of PP Ball valves - 1" to 4" size with necessary supports.		

27	<p>Installation/ Relocation of four numbers of pumps of different types and one number of 1 ton Electrical Hoist as per the instruction of EIC.</p> <p>3 no. of Centrifugal Pumps, one no. of ODS 4 inch and one number of 1m<sup>3</sup> HDPE tank shall be provided by the IREL</p> <p>1 No. of electric wire rope hoist 2 Tons which is supplied in BOQ 3</p> <p>.C has to be installed as per instruction of EIC in monorail</p>		
----	--	--	--

**TECHNICAL DEVIATION STATEMENT FORM**

Tender No. / Date:

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:**

- a. 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'.
- b. 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.

**“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@co.gov.in
---	---

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 expect your commitment to the undertaking and its violation will have consequences as per prevailing rule of the Company.

Thanking you,

For IREL (India) Limited

Sd/-

Name V A Anil Kumar

Designation Chief Manager- (Technical (Purchase)

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).....



**EMD DECLARATION**

I have furnished a sum of Rs. ..../- (Rupees.....only) towards EMD vide NEFT/RTGS/BG No..... dated.....

Place:

Signature of tenderer:

Full Address:

**IREL Bank Details**

Name of Bank	State Bank of India, Udyogamandal Branch, Udyogamandal
Account Type	Current Account
Name of beneficiary	<b>IREL(India) Limited</b>
Account Number	<b>57017844321</b>
IFSC Code	<b>SBIN0070158</b>
MICR Code	<b>682002926</b>

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

Email should contain the following details

- 1) Name of the Company.
- 2) Your E-mail ID and Contact Details including full postal Address.
- 3) EMD & TDC Amount.
- 4) Transaction ID with details of bank and branch.

**DECLARATION - NON-BLACKLISTING**

(To be submitted by an Authorized Signatory on the company's original letter head with signature and seal)

To,

**CM -Technical (Purchase)  
IREL (India) Limited  
R E Division, Udyogamandal - 683 501  
KERALA**

Sir,

In response to the Bid Ref No.: \_\_\_\_\_ dated \_\_\_\_\_ 2023, I/We hereby declare that presently our agency has not been declared ineligible or black listed for corrupt & fraudulent practices either indefinitely or for a particular period of time by any State Govt./ Central Govt./PSU/Government of India Society on the date of bid submission.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/ our bid if any, to the extent accepted may be cancelled.

Thanking you,

Yours faithfully,

Name of the agency: -  
Authorized Signatory: -  
Seal of the Organization: -

Date:

Place:

**Annexure to Bid Form: Eligibility Declarations**

Tender Document No.

Tender Title:

Bidder's Name:

Bidder's Reference No.

Date:

**Restrictions on procurement from Bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General financial Rules 2017.**

"I/We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India: and solemnly certify that we are not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfills all requirements in this regard and is eligible to be considered.

Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and also undertake to advise any future changes to the above details. We understood that any wrong or misleading self-declaration by us would be violation of Code of integrity and would attract penalties as mentioned in this tender document, including debarment.

(Signature of the Bidder, with Official Seal)

**CONTRACTOR ENROLMENT/ REGISTRATION FORM**

1. NAME :

2. ADDRESS :

3. E-MAIL/ MOBILE :

4. INSURANCE DETAILS :

ESI No.	Name of Insurance Company	Policy No.	Valid	Type of Policy	No. of persons covered

5. LABOUR LICENSE DETAILS:

Labour License No.	Address of Licensing Office	License Issuance Authority	Date of Expiry	Maximum No. of Laboure's as per License

SIGNATURE OF CONTRACTOR

VENDOR UP-DATION DETAILS			
SI #	Organisation Details		
1	Name		
2	Address Type (sales office address/ office address/Warehouse address/factory address)		
3	Building/House Number		
4	Area/Street Name		
5	City		
6	Pin Code		
7	State		
8	Contact Details	Ph No:	
		Mobile No.	
		Email:	
9	Ownership Information (Private Limited Company/ One Person Company/ Limited Liability Partnership/ Partnership Firm / Proprietorship/ Co-Operative Society/ Trust/ Others)		
10	Nature Of Business (Manufacturer/ Dealer/ Trader/ Distributor/ Stockiest/ Channel Partner/ Indian Sales Office/ Subsidiary of Registered foreign supplier/ Indian Agents/ Service Provider)		
11	Copy of PAN card		
12	GSTIN		
13	Audited copies of P&L for the last three years		
14	Valid MSE Udyam registration certificate, if any.		Yes
			No
15	ISO Certification if any		
16	Registered in GEM Portal	Yes	No
17	Whether Supplier/Service Provider is a Start-Up Enterprise. If yes provide the details.		
<b>Bank Details</b>			
18	Name of bank:		
19	Name of Bank Branch:		
20	City/Place:		
21	Account Number:		
22	Account Type:		
23	IFSC Code:		
24	MICR Code:		

## GENERAL CONDITIONS OF CONTRACT (GCOC)

## Table of contents

Sl No.	PARTICULARS
1.1	DEFINITION OF TERMS
1.2	INTERPRETATIONS & PRIORITY OF CONTRACT DOCUMENTS
1.3	SPECIAL CONDITIONS OF CONTRACT
2.1	FORMATION OF CONTRACT
2.2	SIGNING OF AGREEMENT
2.3	ADDENDA/ CORRIGENDA
2.4	SITE VISIT
2.5	CONFLICT OF INTEREST
2.6	ABNORMAL RATES
2.7	GENERAL OBLIGATIONS OF SERVICE PROVIDER
2.8	SERVICE PROVIDER'S REPRESENTATIVE & PERSONNEL
2.9	SERVICE PROVIDER'S EMPLOYEES / PERSONNEL
2.10	CONTRACT PERFORMANCE SECURITY (CPS):
2.11	FAILURE BY THE SERVICE PROVIDER TO COMPLY WITH THE PROVISIONS OF THE CONTRACT
2.12	SERVICE PROVIDER REMAINS LIABLE TO PAY COMPENSATION IF ACTION NOT TAKEN UNDER CLAUSE 2.11
2.13	CHANGE IN CONSTITUTION
2.14	TERMINATION OF CONTRACT
2.15	AMOUNT PAYABLE IN CASE OF TERMINATION:
2.16	MEMBERS OF THE EMPLOYER NOT INDIVIDUALLY LIABLE
2.17	EMPLOYER NOT BOUND BY PERSONAL REPRESENTATIONS
2.18	FORCE MAJEURE
2.19	LIQUIDATED DAMAGES FOR DELAYED EXECUTION OF CONTRACT
2.20	ASSIGNMENT/SUBLET
2.21	DELAYS BY EMPLOYER OR HIS AUTHORISED REPRESENTATIVE
2.22	NO WAIVER OF RIGHTS
2.23	CERTIFICATE NOT TO AFFECT RIGHT OF EMPLOYER AND LIABILITY OF SERVICE PROVIDER
2.24	LANGUAGE AND MEASURES
2.25	RELEASE OF INFORMATION
2.26	COMPLETION PERIOD, CONTRACT PERIOD AND COMPLETION OF CONTRACT
2.27	INDEPENDENT CAPACITY
2.28	NOTICE
2.29	CONFIDENTIALITY
2.30	INTELLECTUAL PROPERTY RIGHT
3.1	EXECUTION OF SERVICES
3.2	CHANGES IN SERVICES
3.3	ACTION AND COMPENSATION IN CASE OF POOR SERVICE
3.4	SUSPENSION OF SERVICES
3.5	DEFECTS LIABILITY PERIOD
3.6	LIMITATION OF LIABILITY
3.7	INDEMNITY
3.8	DAMAGES TO PROPERTY, ANY PERSON AND THIRD PARTY
4.1	DEDUCTION FROM THE CONTRACT PRICE
4.2	SCHEDULE OF RATES AND PAYMENTS
4.3	PROCEDURE FOR BILLING OF SERVICES:
4.4	NOTICE OF CLAIMS FOR ADDITIONAL PAYMENTS
4.5	INSURANCE
4.6	TAXES AND DUTIES
4.7	INCOME TAX
4.8	STATUTORY VARIATIONS:
5.1	LABOUR LAWS
5.2	SAFETY REGULATIONS
5.3	FIRST AID AND INDUSTRIAL INJURIES
5.4	GENERAL RULES
5.5	CARE IN HANDLING INFLAMMABLE GAS
5.6	PRESERVATION OF PLACE
5.6	ENVIRONMENT
6.0	RESOLUTION OF DISPUTES/ ARBITRATION

Acceptance of GENERAL CONDITIONS OF CONTRACT (GCOC) Sl.no. 1 to 34

Signature & Seal of the Tenderer

Dated:

Signature and office seal of the contractor

**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.

**SCOPE OF CONTRACT:**

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

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.

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.

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.

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.

All dimensions and weight should be in metric system.

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.

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.

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.

## 6.0 STANDARDS

## 7.0 Instructions, Direction & Correspondence

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

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

## 7.2 Contract Obligations:

7.2.2 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:**

8.1 All modifications relating 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

8.2 PURCHASER/CONSULTANT shall not be bound by any printed conditions or provisions in the SELLER'S B4 forms or acknowledgment of CONTRACT, invoice, packing list and

### Patent Rights, Liability & Compliance of Regulations:

9.1 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

9.2 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.

9.3 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 and/or companies) for any acts of commission or omission while executing the CONTRACT.

9.4 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 infringement.

9.5 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 purposes for which it is furnished or the

### Inspection, Testing & Expediting

10.1 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

10.2 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

10.3 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.

10.4 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 received by the PURCHASER, or their representative prior to the GOODS shipment from the country of origin.

10.5 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.

10.6 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.

10.7 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).

10.8 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

10.9 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.

10.10 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 the

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

10.12 Any and all expenses incurred in connection with tests, preparation of reports and analysis made by qualified laboratories, necessary technical documents, testing documents and

10.12 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, whenever deemed practical by the

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

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

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

10.15 Inspection & Rejection of Materials by consignee:

**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

### Time Schedule & Progress Reporting

11.1 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.

11.2 PURCHASER's/CONSULTANT's representatives shall have the right to inspect SELLER's premises with a view to evaluating the actual progress of work on the basis of SELLER's time schedule documentation.

11.3 Irrespective of such inspection, SELLER shall advise PURCHASER at the earliest possible date of any anticipated delay in the progress.

Page 55 of 62





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) ii) 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.

#### **Force Majeure**

Force majeure is an event beyond the control of SELLER and not involving the SELLER's fault or negligence and which is not foreseeable, which prevents the SELLER from fulfilling its obligations under the CONTRACT. Force Majeure shall mean and be limited to the following:

- a) War/hostilities
  - b) Riot or Civil commotion
  - c) Earthquake, flood, tempest, lightening or other natural physical disaster.
  - d) Restrictions imposed by the Government or other Statutory bodies which prevent or delay the execution of the Contract by the SELLER.
- The decision as to whether an event constitutes force majeure shall rest with PURCHASER which shall be final and binding.



- 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.

## 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 :



**MANDATE FORM****ELECTRONIC CLEARING SERVICE (DIRECT CLEARING)/REAL TIME GROSS SETTLEMENT (RTGS)  
FACILITY FOR RECEIVING PAYMENT****A DETAILS OF ACCOUNT HOLDER:-**

<b>NAME OF ACCOUNT HOLDER</b>	
<b>COMPLETE CONTACT ADDRESS</b>	
<b>TELEPHONE NUMBER/FAX/E-MAIL</b>	

**BANK ACCOUNT DETAILS:-**

<b>BANK NAME</b>	
<b>BRANCH NAME WITH COMPLETE ADDRESS, TELEPHONE NUMBER AND E-MAIL</b>	
<b>WHETHER THE BRANCH IS COMPUTRISED</b>	
<b>WHETHER THE BRANCH IS RTGS ENABLED? THEN WHAT IS THE BRANCH IFSC CODE</b>	
<b>TYPE OF BRANCH ALSO NEFT ENABLED?</b>	
<b>TYPE OF BANK ACCOUNT (SB/CURRENT/CASH CREDIT)</b>	
<b>COMPLETE BANK ACCOUNT NUMBER(LATEST)</b>	
<b>MICR CODE OF BANK</b>	

**DATE OF EFFECT-**

I hereby declare that the particulars given above are correct and complete if the transaction is delayed or not effected at all for reasons of incomplete or incorrect information. I would not hold the user institution responsible. I have read the option invitation letter and agree to discharge responsibility expected of me as a participant under the scheme.

**(Signature of Customer)****Certified that the particular furnished above are correct as per correct as per our records****(Bank's Stamp)****Date**