

TERMS & CONDITIONS FOR POST WARRANTY ANNUAL MAINTENANCE CONTRACT

1. Please quote for the Post Warranty Annual Maintenance Contract as per scope defined in Technical Section of Bidding document for a period as defined in Technical Section of Bidding document . Please furnish the year-wise Lumpsum Price as per the Schedule of Price (SOP).
2. The AMC Charges quoted in SOP Format shall be inclusive of all the charges for Transportation, Lodging, Boarding, all insurances including third party insurance (other than insurances covered by BPCL insurance Policy), all Taxes & Duties and all other incidental charges etc. but excluding GST which shall be payable extra at actual on Submission of Invoice as per GST rules. Owner will not have any liability, whatsoever, over and above the quoted prices.
3. The payment terms for the AMC shall be on quarterly basis after completion of the each quarter against submission of Bills duly certified by the Engineer-in-charge.
4. The order for AMC will be placed before the expiry of contractual Warranty Period. The price of AMC services will remain firm & fixed for the complete execution of AMC contract. In case there is delay in start of AMC from the date of expiry of warranty period, the charges shall be paid on prorata basis for the duration curtailed from original specified AMC period.
5. Within 2 weeks of placement of Order for AMC, Seller shall submit CPBG for 5% of the Maximum annually AMC amount which shall be valid for the entire AMC period plus 2 months claim period.
6. Periodic and Preventive maintenance: Vendor shall depute their engineers to installation site as & when required for regular checkups, as part of periodic maintenance. Vendor shall also depute their service engineers periodically for preventive maintenance, major repairs / replacement and reporting. Price shall also include emergency visits as necessary.
7. Scope of AMC shall be as per Technical Section of Bidding document . The quoted lump sum rate shall include providing all manpower, machineries and materials required to carry out the

work as per scope of work of AMC defined in the Technical Section of Bidding document.	
Description :	
AMC after completion of warranty period	Quoted in SOP

Prevailing Rate of GST @ _____%

**ANNEXURE - XXVI
TO
SPECIAL CONDITIONS OF CONTRACT**

MARINE INSURANCE POLICY

MARINE OPEN IMPORT DECLARATION POLICY

UIN- IRDANI15P0010V01200102 Marine 02

Preamble

ICICI Lombard General Insurance Company Limited ("the Company"), having received a Proposal and the premium from the Proposer named in the Schedule referred to herein below, and the said Proposal and Declaration together with any statement, report or other document leading to the issuance of this Policy and referred to therein having been accepted and agreed to by the Company and the Proposer as the basis of this contract do, by this Policy agree, in consideration of and subject to the due receipt of the subsequent premiums, as set out in the Schedule with all its Parts, and further, subject to the terms and conditions contained in this Policy, as set out in the Part I, II and III of the Schedule, that on proof to the satisfaction of the Company of the compensation having become payable as set out in Part I of the Schedule to the title of the said person or persons claiming payment or upon the happening of an event upon which one or more benefits become payable under this Policy, the Sum Insured / appropriate benefit will be paid by the Company.

PART I OF SCHEDULE

Insured Details

Policy Number	: 2002/I/387973883/00/000
Issued At	: MUMBAI
Name of the Insured	: BHARAT PETROLEUM CORPORATION LTD.
Mailing Address of the Insured	: Bharat Petroleum Corporation Ltd. Bharat Bhavan, 4 And 6, Currinbhoy Road, Ballard Estate, Mumbai, Mumbai, Maharashtra Pin- 400001
Politically Exposed Person (PEP)/close relative of PEP	: No

Policy Details

Period of Insurance	: From : 00:00 Hours of February 18, 2025 To : Midnight of January 17, 2028
Subject Material Insured	: All materials, equipment, supplies, machinery forming part of intending to form part of the Project including temporary works / structures, spare parts, common facilities and facilities which are improvements, tie-ins, connections and additions, modifications to existing facilities, pipelines and all other property collectively known as the project.
Details of Transit	: From : Worldwide from anywhere To : project site
Mode of Conveyance	: Air, Rail, Road, Sea
Total Sum Insured	: Rs. 9,750,000,000.00
Limit Per Sending	: Rs. 4,980,000,000.00
Limit Per Location	: Rs. 4,980,000,000.00
Description of Packaging	: standard
Basis of Valuation	: CIF+10%
Cargo Sum Insured	: Rs. 9,750,000,000.00
Estimated Annual Sum Insured	: Rs. 9,750,000,001.00
Premium Computation	
ICC (A) Cover	: Rs. 9,457.62
Add on Covers	
SRCC/WSRCC Cover	: Rs. 531.38
Stamp Duty	: (Rs.) 01.00

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*Total Premium : (Rs.) 11,788.02

*Premium value mentioned above is inclusive of taxes applicable

Excess

0.5 % Of Consignment Value Subject to minimum INR 5000

Clauses Description

1. 50:50 Clause with EAR Policy.
2. Cargo termination of storage in transit clause.
3. Co insurance clause
4. Communicable Disease Exclusion;
5. Courier Clause, Registered Post Parcel Clause (Amended For Courier)
6. Excluding rusting, oxidation, electrical mechanical electronic electro-mechanical and internal derangement losses under the scope of cover of policy unless the loss is proximately caused due to ICC / ITC B perils.
7. Excluding shipments from Cuba, North Korea, Syria, Iran and Crimea absolutely.
8. Excluding touchpoints of Israel and Palestine and Red sea.
9. Extension under Duration clause at port of discharge is required upto 60 days.
10. Five power exclusion clauses
11. ITC Clause B for tail end risk
12. Import Duty Clause,
13. Inland SRCC Clause
14. Inland Transit (Inland Vessels) Clause - A
15. Institute Cargo Clauses (Air) CL387 (excluding sendings by Post) 01-01-2009
16. Institute Cargo Clauses ?A? CL382 dated 1st January 2009
17. Institute Classification Clause 1/1/01 to apply to ocean going vessels over 25 years of age, but additional premiums, if any, to be calculated in accordance with agreed scale.
18. Institute Classification Clause CLS354 dated 1/1/01
19. Institute Cyber Attack Exclusion Clause ;Cargo ISM Endorsement ;Cargo ISM Forwarding Charges Clause
20. Institute Radioactive Contamination, Chemical Biological, Bio Chemical and Electromagnetic Weapons Exclusion Clause 10-11-2003
21. Institute Replacement Clause 1/12/08
22. Institute Strikes Clauses (Air Cargo) CL389 dated 1/1/09
23. Institute Strikes Clauses (Cargo) CL386 dated 1st January 2009
24. Institute War Clauses (Air Cargo) CL388 (excluding sendings by Post) 1/1/09
25. Institute War Clauses (Cargo) CL385 dated 1st January 2009
26. Joint Excess Loss Cyber Losses clause (JX2020-007) ; JELC Electronic Date Recognition Endorsement - C (XLEDRC)
27. Loading/Unloading supervisions by recognised surveyor especially for the high value, over dimensional, non-containerised and critical items.
28. No Cover for unexplained shortages
29. Notwithstanding anything to the contrary as mentioned elsewhere in the policy, War and SRCC risks, indemnifiable under the provisos of Institute War Clauses and Institute Strike Clauses, for shipments from and/or destined to UAE, Bahrain, Iraq, Kuwait, Oman, Qatar and Saudi Arabia are not covered under the scope of the policy. The Reinstatement of Institute War Clauses (Cargo) and Institute Strikes Clauses (Cargo) shall be subject to an additional premium @ 0.025% on the shipment value, to be paid/remitted to the ICICI Lombard prior to the commencement of the transit, failing which insurers shall be absolved of all liabilities. & Specified Territory Exclusion (Russia, Ukraine, Belarus) & Excluding War, Strikes, Riots and Civil Commotion Risks for all transits to, from and within Ukraine, Ukraine territorial waters , Russian Black Sea territorial waters , Sea of Azov , Russian Black Sea ports , Sea of Azov ports and Russian territories within 200kms of the Ukrainian border in Marine.
30. On Deck over dimensional non-containerised cargo to be subject to suitable warranties to avoid damage including sliding, loosening and slippage losses.
31. Risk of loading & unloading is covered
32. Sanctions and limitation clause (LMA 3100)
33. Termination of Transit Clause (Terrorism) 2009
34. Used/refurbished/sent for repairs/returned cargo covered on ITC B+ SRCC+ ND of entire consignment basis and on Depreciated Value
35. War, Strikes, Riots and Civil Commotion Risks for marine import subject to JCC Global Cargo Watch List.
36. conceal damage clause, 60 days.

Conditions Description

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1. "Barge Coverage -Transit through barges is covered by this policy subject to fulfilling below given warranties : 1. Barge movement will not take place during rough weather conditions and/or during weather warning periods issued by the competent authorities. 2. Barges are certified and licensed for trading by competent authorities. Barges hold valid statutory licenses & certificates including certificates of class (without any COC Conditions of class). 3. Warranted recognized surveyor to attend & approve the barge, loading, stowage and unloading arrangements to/from the barge including tug, towage and towing arrangements. 4. All recommendations of surveyor to be complied. 5. Fees for the above mentioned survey would be at assureds cost. 6. Barge holds to be weather tight so as to restrict ingress of water into the holds. 7. Notwithstanding anything to the contrary, it is warranted that if the geographical limits defined as per the trading warranty of Marine Hull And Machinery Policy of carrying barge is breached than any loss and/or damages will not be covered under the scope of the policy "
2. "InsuredProperty" All materials, equipment, machinery forming part or intending to form part of the Project to the extent that the value thereof is included in the estimated insurable value, including repair work, returned and rejected goods, ODC/OWC/OOG cargo. Excluding Contractor's plant and equipment or covered at rates, terms and conditions as agreed by the contract Lead Insurer wherein assured have or assume a responsibility to insure. Goods or merchandise or cargo of every description incidental to the project of the assured or otherwise, including duties and taxes if applicable and increased value howsoever arising if required, the property of the Assured or for which the Assured have or assume a responsibility to insure, whether contractually or otherwise, or for which the Assured have or receive instructions to insure prior to shipment or prior to known or reported loss or accident, consisting principally of but not limited to Plant, Equipment, Materials, Machinery, Parts, Spare Parts, Buildings Structures, Supplies, Accessories, Process and General Consumables, Office and Management Equipment and all interests in connection with the RRP at defined project locations in India and/or all other ancillary or associated facilities
3. "Nature of "Bharat Petroleum Corporation Ltd. (BPCL) - Kochi Refinery, (hereinafter referred to as ""BPCL-KR""), plans to set up a Polypropylene unit based on Polymer grade Propylene feedstock. BPCL-KR intends to set up facilities for production of Polypropylene and its associated facilities for production of various grades of Homo Polypropylene, based on 400 KTPA of Polymer grade Propylene. The facilities are proposed to be located within Refinery and on the newly acquired land adjacent to the existing refinery. It is envisaged to fully integrate the new facilities with the refinery. It is proposed to install a new Polypropylene (PP) Unit, utilities & offsite facilities required for PP Unit "
4. "Specified Territory Exclusion Clause Notwithstanding anything to the contrary herein, all Specified Territory Exposures whether direct or indirect, are excluded. The term Specified Territory,- Exposure includes but is not limited to any activity, transaction, legal proceedings, operation, entity, subsidiary, headquarters, branch, products, good, property, asset, services in a Specified Territory or, as applicable, delivered to, located in, originating in, transitioning from, to or through a Specified Territory, as well as any person ordinarily resident in a Specified Territory, the government of a Specified Territory as well as any entity owned or controlled by an entity in a Specified Territory including, without limitation, affiliates outside of a Specified Territory. Specified Territory means The Republic Of Belarus, Ukraine, and/or The Russian Federation. "
5. Approval for survey costs must be obtained from the competent authority of the SIG vertical. A mandatory pre-dispatch survey is required for ODC cargo transit AND Barge Movement
6. Communicable Disease Exclusion
7. Communicable Disease Exclusion :Notwithstanding any other provision of this Policy to the contrary, this Policy does not insure any loss, cost, damage or expense, arising out of, attributable to, or occurring concurrently or in any sequence with a communicable diseaseAs used herein, communicable disease means any infectious or contagious substance:1. Including, not limited to, a virus, bacterium, parasite or other organism or any mutation thereof, whether deemed living or not, and2. Regardless of the method of transmission, whether direct or indirect, including, but not limited to, airborne transmission, bodily fluid transmission, transmission from or to any surface or object, solid, liquid or gas or between humans, animals, or from any animal to any human or from any human to any animal, that can cause or threaten damage to human health or human welfare or causes or threatens damage, deterioration, loss of value, marketability or loss of use to tangible or intangible property insured hereunder. For avoidance of doubt, no coverage extension, additional coverage, global extension, exception to any exclusion or other coverage grant shall afford any coverage that would otherwise be excluded through this exclusion, including but not limited to any closure by public or civil authorities, or any denial of access to Insured Premises, or Customer and or Supplier premises (including service / utility providers) hereunder. For further avoidance of doubt, loss, cost, damage or expense, includes any cost to clean-up, detoxify, remove, monitor or test: (1) for a communicable disease or (2) any tangible or intangible property insured hereunder that is affected by such communicable disease.
8. Coverage All risk cover + War +SRCC + additional Terms and conditions as per attached sheet.
9. Cutting Clause :Warranted that the damaged portion should be cut off and the balance utilised.
10. Excess Excess: 1. For Import Shipments : 0.5% of consignment value and Minimum INR 5000/- for each and every claim 2. Over-Dimensional Cargo/Over-Weight Cargo/Critical Cargo Shipments : 1% of consignment value and Minimum INR 5000/- for each and every claim 3. other Transits 0.5% of consignment value and Minimum INR 5000/- for each and every claim

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11. Important Notice Clause
12. Imported Supplies - 4,78,00,00,000
13. Indigenous Supplies - 4,97,00,00,000
14. Institute Replacement clause Institute Replacement clause In the event of loss or damage to any part or parts of an insured machine caused by a peril covered by the Policy the sum recoverable shall not exceed the cost of replacement or repair of such part or parts plus charges for forwarding and refitting if incurred but excluding duty unless the full duty is included in the amount insured in which case loss if any sustained by payment of additional duty shall also be recoverable
15. Institute classification Clause "Warranted that the vessel used is in conformity with Institute classification Clause 01/01/2001 and should not be more than 20 years of age. Overage Premium a) For vessel age more than 20 years and up to 25 years additional rate of 0.01% b) For vessel age more than 25 years and up to 30 years additional rate of 0.02% c) For vessel age more than 30 years to be referred to U/W and terms to be agreed. All additional rates to apply in full shipment value. Rates of above apply over and above the base rate / cargo rate. The above clause to be applied for bulk cargo vessels only. Additional rates as mentioned above are net to ILGICL, and brokerage/cost of accusation has to be loaded on the above rate. Vessels has to be classified as per ICC 2001."
16. Limit per Sending (PSL): Notwithstanding anything to contrary contained in this contract, the limit of the insurer liability in respect of any one accident or series of accidents arising from the same event shall not exceed the amount as specified in the schedule of the policy. Shipment values exceeding this limit, unless prior notice is given to the company and suitable amendments have been made in the policy, insured will be self insurer and for partial losses condition of average will be applicable at time of claim.
17. Limit per location (PLL): Notwithstanding anything to contrary contained in this contract, Companys liability in respect of any one accident or series of accidents arising from the same event in any one location shall not exceed the amount as specified in the schedule of the policy. This donates accumulation of all shipments at any one place at any one time. If such accumulations do take place exceeding the location limit, unless prior notice is given to the company and suitable amendments have been made in the policy, condition of average will be applicable at time of claim.
18. Mode of Conveyance Sea and / or barge, rail / road / air and/or any other conveyance by land, sea or air and connections owned, hired, leased or otherwise under the control of or operated by the Insured including personal carriage
19. ODC WARRANTY It is condition of the policy that any cargo defined as OVER-DIMENSIONAL CARGO/OVER-WEIGHT CARGO/CRITICAL CARGO will be covered subject to satisfactory Pre-Dispatch-Inspection and LOADING/STOWAGE/LASHING supervision carried out by surveyors appointed by ICICI Lombard General Insurance Company Ltd. The intimation for the survey needs to be given 10 working days in advance. ODC: Over Dimensional Cargo definition: Any items (including its packaging) with dimensions in excess of 12 m length and/or 2.5 m wide and/or 2.5 m high .OWC- Over Weight Cargo (Heavy Lift): Any item including packing with a weight greater than 55 MT.
20. Pair and set clause: Where any item insured under this policy consists of articles in a pair or set, the Companys liability shall not exceed the value of any particular part or parts which may be lost or damaged without reference to any special value which such articles may have as part of such pair or set and in any event not more than a proportionate part of the insured value of the pair or set
21. Second Hand Machinery Replacement Clause "Second Hand Machinery Replacement Clause : In the event of loss or damage to any part or parts of an insured machine caused by a peril covered by the policy, the Company shall be liable only for the cost of repairing or replacing such part or parts, subject to the condition that settlement of the claim will be made in the same proportion which the insured value of the machine bears to the current market value of a similar machine. The consignment covered hereunder is insured for the market value on as is where is condition? Used Machinery and Spares shall be valued at the depreciated market value of the machines as on the date of loss/Accident."

Co-Insurance Details

S No.	Name of the Co-insurer	Share in %	Type
1	ICICI LOMBARD GENERAL INSURANCE COMPANY LTD.	60	Leader
2	NEW INDIA ASSURANCE COMPANY LTD.	40	Follower

Survey & Claim Settlement

In the event of loss or damage which may involve a claim under this insurance policy, immediate notice thereof should be



ICICI Lombard General Insurance Company LTD
ICICI LOMBARD HOUSE, 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

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given to insurer. In no case, such intimation shall be later than 7 days from date of delivery of consignment. The application for survey should be given to :

ICICI Lombard General Insurance Company LTD , ICICI LOMBARD HOUSE , 414, Veer Savarkar Marg, Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

Claims Payable By

ICICI Lombard General Insurance Company Limited.



ICICI Lombard General Insurance Company LTD
ICICI LOMBARD HOUSE, 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

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Policy shall stand cancelled ab initio in the event of non realisation of the premium.
Subject otherwise to terms and conditions of Marine Open Import Declaration Policy.

GSTIN Reg. No : 27AAACI7904G1ZN
IL GIC GSTIN Address : 414, ICICI LOMBARD HOUSE, VEER SAVARKAR MARG, NEAR SIDDHI
VINAYAK TEMPLE MAIN GATE, PRABHADEVI, MUMBAI, 400025,
MAHARASHTRA
HSN/SAC code : 997135 - GENERAL INSURANCE SERVICES

The stamp duty of Rs. 0.5/- paid in cash or by demand draft or by pay order, vide Receipt/Challan
No. CSD10520244764 dated October 04, 2024.

Signed for and on behalf of the ICICI Lombard General Insurance Company Limited at Mumbai on April 3, 2025.

Gaurav Arora

Authorised Signatory
ICICI Lombard General Insurance Company Ltd.

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1. It is hereby declared and agreed that insurers named hereunder severally agree and accept the following for the proportion set against its name:
 - 1.1 In event of any claim being admissible by the insurer towards the liability, to pay or make good to the insured the value of the property at the time of the happening of its loss or destruction or the amount of such damage thereto as provided for under the policy and or
 - 1.2 To indemnify the insured against liability at law or damage to any property or injuries to persons as provided for under the policy
2. **Co-insurance Schedule:**

Sr. No.	Name of the Insurer	Share (%)	Type
1	ICICI LOMBARD	60	Leader
2	NIA	40	Follower

3. Conditions forming part of this clause

It is hereby agreed and understood that:

- 3.1 The Insured in exercise of his option has after having understood the implications, selected the above named lead Insurer and the named Co-insurers vide sr. Nos. of the co-Insurance schedule as in point no. 2 under the policy.
- 3.2 The duties of insured would devolve upon the authorized intermediary licensed by IRDA (referred to as authorised representative here after) where the insured appoints such authorized intermediary to transact on his behalf with the insurer/s.
- 3.3 It shall be the responsibility of the insured or his authorised representative licensed by IRDA to decide on the panel of co-insurers and their respective shares of the risk herein as set out in co-insurance share under paragraph 2 above and communicate the same to all such participating co-insurers, prior to assumption of risk.
- 3.4 The lead Insurer shall finalise the terms and conditions applicable to the risk in the form of an underwriting slip with a unique code to be handed over to the Insured/Authorised intermediary.
- 3.5 It shall be the responsibility of the insured or his authorized representative to ensure that all insurers listed in the co-insurance schedule under paragraph 2 above, are fully aware of the terms and conditions of this policy and shall secure their unqualified acceptance of such terms and conditions prior to issuance of cover and inclusion of names of insurers in this co-insurance arrangement.
- 3.6 During the currency of the policy, if there are any material changes in risk or as changes in original terms and conditions such as variation in Sum Insured, changes in premium charged, extension of policy period, etc., the same shall be communicated by the insured or his authorised representative giving sufficient advance notice of 7 days to the leader as well as all other participating co-insurers listed in the co-insurance schedule under paragraph 2 above and procure confirmation thereon. The endorsement to this effect shall be executed by the lead insurer under advice to all other participating co-insurers.
- 3.7 The liability of the insurers shall in no case exceed in respect of each item of the sum expressed in the set schedule to be insured thereon or in the all, the total sum insured hereby or sums as may be substituted thereof by endorsement.

"In the event of any of the Coinsurers chosen by the Insured as per Paragraph 3.1 above and listed in coinsurance schedule , wishes to withdraw from participation in this Policy at anytime during currency, may do so after giving notice of 14 days (from date of intimation of changes in risk by Insured/ Intermediary) only in the event of following contingencies:

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1. Increase in Sum Insured beyond the agreed and accepted amount including escalation in Sum Insured, as recorded in the underwriting slip
2. Change in Terms and conditions of Cover as agreed and accepted in the UWg Slip.

In the event of withdrawal as above by any Insurer from Coinsurance participation under the policy, the Insured shall arrange for an alternative Insurer to take care of the full share of risk vacated by the existing Insurer. In the event of Insured failing to do so, the Insured shall be considered as his own Insurer for such share of risk or part there of which is not taken up by such alternative Co- Insurer."

- 3.8 In the event of a claim under this policy, the insured shall give notice of its occurrence to the Lead Insurer with a copy to all the insurers as listed in clause 2 above.
- 3.9 Upon receipt of such notification of claim, all claim related activities including appointment of surveyors, etc shall be done by the lead insurer who shall decide the admissibility as well as quantum of the claim and the co-insurers shall abide by the same.
- 3.10 In the event of any claim being value of more than 5 crores the lead insurer can immediately demand and the following co-insurer shall pay the cash call of their proportionate share of loss.
- 3.11 In all other cases, where the Lead Insurer pays 100% of the assessed loss, the following co-insurer/s shall remit their share of the loss to the Lead Insurers within a maximum period of 21 days from the date on which the Lead Insurer makes the demand.

Lead Insurer's declaration that the Claim and the amount there of was in accordance with terms and conditions of the Policy issued shall be considered sufficient by the co-insurers for the purpose of remitting their share of the loss to the Lead Insurer.

- 3.12 The co-insurers forming part of this agreement shall be entitled to demand and obtain from the Lead Insurer/Intermediaries copies of all policies, endorsements or other claim related documents relevant to this co-insurance clause.

In witness, whereof, this policy has been signed by ICICI LOMBARD General Insurance Company (Lead Insurer) for itself and as authorized agents for other participating insurers named herein

Subject otherwise to the terms, exceptions, conditions and limitations of this policy.

DECLARATION PROCESS

Dear Insured,

As per terms and condition of Marine Open Policy you are required to furnish declaration for each and every transit to us by 5th of every month for all the transits commenced in preceding month. The declaration can be submitted to us in following ways:

1. The certificate of insurance can be directly taken by you from our web based module ie online manager using your user id and password.

In case if you have not received user id and password, please contact copsmarinecertificate@icicilombard.com and mention your Policy No.

2. Alternatively the declaration can be submitted to us in attached declaration statement on or before 5th of every month for all transits commenced during the preceding month to the following email id :- marinedeclaration@icicilombard.com

The declaration will be uploaded on the online manager and you will receive the confirmation mail for the upload of declaration.

We would like to clarify that no liability shall attach to the Insurer in respect of consignments which are not declared in the specified declaration format by 5th of every month.

Declaration Format

Details	Field
Policy No	Mandatory
Risk Commencement Date	Mandatory
Location From	Mandatory
Location To	Mandatory
Port of Loading	Mandatory
Port of Discharge	Mandatory
Shipment Type (Import/Export)	Mandatory
Importers/Exporters Name and Address	Mandatory
Consignee Name and Address	Mandatory
Goods Description	Mandatory
Mode of Transit	Mandatory
Packaging Details	Mandatory
Cargo Sum Insured	Mandatory
Custom Sum Insured	Mandatory
Vessel Name	Mandatory
BL/AWB/LR/RR No	Mandatory
BL/AWB/LR/RR Date	Mandatory
Invoice No	Mandatory
Invoice Date	Mandatory
Coverage of Vessel	Mandatory

MARINE OPEN IMPORT DECLARATION POLICY

PART II OF SCHEDULE

Scope of Cover

The Company hereby agrees subject to the terms, conditions and exclusions herein contained or otherwise expressed herein, that where the coverage has been expressed in Part I of the Schedule as being in respect of Institute Cargo Clause (A), Institute Cargo Clause (B), Institute Cargo Clause (C) or Institute Cargo Clause (Air), as the case may be, the same shall be in terms of Institute Cargo Clause (A), Institute Cargo Clause (B), Institute Cargo Clause (C) or Institute Cargo Clause (Air) respectively, as appended hereto. Such coverage shall be subject to the terms, conditions and exclusions as provided therein, and always be subject to the Institute Radioactive Contamination Exclusion Clause, the Institute Classification Clause and the Important Notice Clause, as stated herein below.

INSTITUTE CARGO CLAUSES (A)

Risk covered

- | | |
|--|--------------------------------|
| 1. This insurance covers all risks of loss of or damage to the subject-matter insured except as provided in Clauses 4, 5, 6 and 7 below | Risks Clause |
| 2. This insurance covers general average and salvage charges, adjusted or determined according to the contract of General Average Clause affreightment and/or the governing law and practice, incurred to avoid or in connection with the avoidance of loss from any cause except those excluded in Clauses 4, 5, 6 and 7 or elsewhere in this insurance. | General Average Clause |
| 3. This insurance is extended to indemnify the Assured against such proportion of liability under the contract of affreightment "Both to Blame Collision" Clause as is in respect of a loss recoverable hereunder. In the event of any claim by ship owners under the said Clause the Assured agree to notify the Under-writers who shall have the right, at their own cost and expense, to defend the Assured against such claim. | Both to Blame Collision Clause |

Exclusions

- | | |
|--|--|
| 4. In no case shall this insurance cover | General Exclusions Clause |
| 4.1 Loss damage or expense attributable to willful misconduct of the Assured, | |
| 4.2 Ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured | |
| 4.3 Loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-matter insured (for the purpose of this Clause 4.3 "packing" shall be deemed to include stowage in a container or lift van but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants) | |
| 4.4 Loss damage or expense caused by inherent vice or nature of the subject-matter insured | |
| 4.5 Loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against (except expenses payable under Clause 2 above). | |
| 4.6 Loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the vessel. | |
| 4.7 Loss damage or expense arising from the use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter. | |
| 5. 5.1 In no case shall this insurance cover loss damage or expense arising from unseaworthiness of vessel or craft, unfitness of vessel craft conveyance container or liftvan for the safe carriage of the subject-matter insured where the Assured or their servants are privy to such unseaworthiness or unfitness, at the time the subject-matter insured is loaded therein. | Unseaworthiness and Unfitness Exclusion Clause |
| 5.2 The Underwriters waive any breach of the implied warranties of seaworthiness of the ship and fitness of the ship to carry the subject-matter insured to destination, unless the Assured or their servants are privy to such unseaworthiness or unfitness | |
| 6. In no case shall this insurance cover loss damage or expense caused by | War Exclusion Clause |

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- 6.1 War civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power
- 6.2 Capture seizure arrest restrain or detainment (piracy excepted), and the consequences thereof or any attempt thereat
- 6.3 Derelict mines torpedoes bombs or other derelict weapons of war.
7. In no case shall this insurance cover loss damage or expense Strikes Exclusion Clause
- 7.1 Caused by strikers, locked-out workmen, or persons taking part in labour disturbances, riots or civil commotions
- 7.2 Resulting from strikes, lock-outs, labour disturbances, riots or civil commotions
- 7.3 Caused by any terrorist or any person acting from a political motive.
- Duration**
8. 8.1 This insurance attaches from the time the goods leave the warehouse or place of storage at the place named herein for the commencement of the transit, continues during the ordinary course of transit and terminates either Transit Clause
- 8.1.1 On delivery to the Consignees' or other final warehouse or place of storage at the destination named herein,
- 8.1.2 On delivery to any other warehouse or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either
- 8.1.2.1 For storage other than in the ordinary course of transit
- Or
- 8.1.2.2 For allocation or distribution
- Or
- 8.1.3 On the expiry of 60 days after completion of discharge overseas of the goods hereby insured from the overseas vessel at the final port of discharge, whichever shall first occur
- 8.2 If, after discharge overseas from the overseas vessel at the final port of discharge, but prior to termination of this insurance, the goods are to be forwarded to a destination other than that to which they are insured hereunder, this insurance, whilst remaining subject to termination as provided for above, shall not extend beyond the commencement of transit to such other destination.
- 8.3 This insurance shall remain in force (subject to termination as provided for above and to the provisions of Clause 9 below) during delay beyond the control of the Assured, any deviation, from the exercise of a liberty granted to shipowners or charterers under the contract of affreightment.
9. If owing to circumstances beyond the control of the Assured either the contract of carriage is terminated at a port or place other than the destination named therein or the transit is otherwise terminated before delivery of the goods as provided for in Clause 8 above, then this insurance shall also terminate unless prompt notice is given to the Underwriters and continuation of cover is requested when the insurance shall remain in force, subject to an additional premium if required by the Underwriters, either Termination of Contract of Carriage Clause
- 9.1 Until the goods are sold and delivered at such port or place, or, unless otherwise specially agreed, until the expiry of 60 days after arrival of the goods hereby insured at such port or place, whichever shall first occur,
- 9.2 If the goods are forwarded within the said period of 60 days (or any agreed extension thereof) to the destination named herein or to any other destination, until terminated in accordance with the provisions of Clause 8 above.
10. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a premium and on conditions to be arranged subject to prompt notice being given to the Underwriters Change of Voyage Clause

MARINE OPEN IMPORT DECLARATION POLICY

Claims

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| <p>11. 11.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss.</p> <p>11.2 Subject to 1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriter were not.</p> | <p>Insurable Interest Clause</p> |
| <p>12. Where, as a result of the operation of a risk covered by this insurance, the insured transit is terminated at a port or place other than that to which the subject-matter is covered under this insurance, the Underwriters will reimburse the Assured for any extra charges properly and reasonably incurred in unloading, storing and forwarding the subject-matter to the destination to which it is insured hereunder.</p> <p>This Clause 12, which does not apply to general average or salvage charges, shall be subject to the exclusions contained in Clauses 4,5,6 and 7 above, and shall not include charges arising from the fault negligence insolvency or financial default of the Assured or their servants.</p> | <p>Forwarding Charges Clause</p> |
| <p>13. No claim for Constructive Total Loss shall be recoverable hereunder unless the subject-matter insured is reasonably abandoned either on account of its actual total loss appearing to be unavoidable or because the cost of recovering, reconditioning and forwarding the subject-matter to the destination to which it is insured would exceed its value on arrival.</p> | <p>Constructive Total Loss Clause</p> |
| <p>14. 14.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured.</p> <p>14.2 Where this Insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the total amount insured under the primary insurance and all Increased Value insurances covering the loss and affected on the cargo by the Assured and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.</p> | <p>Increased Value Clause</p> |
| <p>Benefit of insurance</p> | |
| <p>15. This insurance shall not inure to the benefit of the carrier or other bailee</p> | <p>Not to Inure Clause</p> |
| <p>Minimising losses</p> | |
| <p>16. It is the duty of the Assured and their servants and agents in respect of loss recoverable hereunder</p> <p>16.1 To take such measures as may be reasonable for the purpose of averting or minimising such loss, and</p> <p>16.2 To ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised And the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties.</p> | <p>Duty of Assured Clause</p> |
| <p>17. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment or otherwise prejudice the rights of either party.</p> <p style="padding-left: 20px;">Avoidance of delay</p> <p>18. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control.</p> <p style="padding-left: 20px;">Law and practice</p> <p>19. This insurance is subject to English law and practice</p> | <p>Waiver Clause</p> <p>Reasonable Despatch Clause</p> <p>English Law and Practice Clause</p> |

MARINE OPEN IMPORT DECLARATION POLICY

NOTE:

It is necessary for the Assured when they become aware of an event which is "held covered" under this insurance to give prompt notice to the Underwriters and the right to such cover is dependent upon compliance with this obligation

MARINE OPEN IMPORT DECLARATION POLICY

INSTITUTE CARGO CLAUSES (B)

Risk covered

Risk Clause

This insurance covers, except as provided in Clauses 4,5,6 and 7 below,

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| <p>1.1 Loss of damage to the subject-matter insured reasonably attributable to</p> <p style="margin-left: 20px;">1.1.1 Fire or explosion</p> <p style="margin-left: 20px;">1.1.2 Vessel or craft being stranded grounded sunk or capsized</p> <p style="margin-left: 20px;">1.1.3 Overturning or derailment of land conveyance</p> <p style="margin-left: 20px;">1.1.4 Collision or contact of vessel craft or conveyance</p> <p style="margin-left: 20px;">1.1.5 Discharge of cargo at a port of distress</p> <p style="margin-left: 20px;">1.1.6 Earthquake volcanic eruption or lightning</p> <p>1.2 Loss of or damage to the subject-matter insured caused by</p> <p style="margin-left: 20px;">1.2.1 General average sacrifice</p> <p style="margin-left: 20px;">1.2.2 Jettison or washing overboard</p> <p style="margin-left: 20px;">1.2.3 Entry of sea lake or river water into vessel craft hold conveyance container liftvan or place of storage,</p> <p>1.3 Total loss of any package lost overboard or dropped while loading from, vessel or craft</p> <p>2. This insurance covers general average and salvage charges, adjusted or determined according to the contract of affreightment and/or the governing law and practice, incurred to avoid or in connection with the avoidance of loss from any cause except those excluded in Clauses 4, 5, 6 and 7 or elsewhere in this insurance.</p> <p>3. This insurance is extended to indemnify the Assured against such proportion of liability under the contract of affreightment Clause as is in respect of a loss recoverable hereunder. In the event of any claim shipowners under the said Clause the Assured agree to notify the Underwriters who shall have the right, at their own cost and expense, to defend the Assured against such claim.</p> | <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p></p> <p>General Average Clause</p> <p>"Both to Blame Collision" Clause</p> |
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Exclusions

General Exclusions Clause

4. In no case shall this insurance cover
- 4.1 Loss damage or expense attributable to wilful misconduct of the Assured
- 4.2 Ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured
- 4.3 Loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-matter insured (for the purpose of this Clause (iii) "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)
- 4.4 Loss damage or expense caused by inherent vice or nature of the subject-matter insured.
- 4.5 Loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against 9except expenses payable under Clause 2 above
- 4.6 Loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the vessel.
- 4.7 Deliberate damage to or deliberate destruction of the subject-matter insured or any part thereof by the

MARINE OPEN IMPORT DECLARATION POLICY

wrongful act of any person or persons

- 4.8 Loss damage or expense arising from the use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter.
5. 5.1 In no case shall this insurance cover loss damage or expense arising from unseaworthiness of vessel or craft, unfitness of vessel craft conveyance container or liftvan for the safe carriage of the subject-matter insured where the Assured or their servants are privy to such unseaworthiness or unfitness, at the time the subject-matter insured is loaded therein. Unseaworthiness and Unfitness Exclusion Clause
- 5.2 The Underwriters waive any breach of the implied warranties of seaworthiness of the ship and fitness of the ship to carry the subject-matter insured to destination, unless the Assured or their servants are privy to such unseaworthiness or unfitness.
6. In no case shall this insurance cover loss damage or expense caused by war civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power capture seizure arrest restraint or detainment, and the consequences thereof or any attempt therat derelict mines torpedoes bombs or other derelict weapons of war. War Exclusion Clause
7. In no case shall this insurance cover loss damage or expense caused by strikers, locked-out workmen, or persons taking part in labour disturbances, riots or civil commotions resulting from strikes, lock-outs, labour disturbances, riots or civil commotions caused by any terrorist or any person acting from a political motive. Strikes Exclusion Clause
8. 8.1 This insurance attaches from the time the goods leave the warehouse or place of storage at the place named herein for the commencement of the transit, continues during the ordinary course of transit and terminates either Transit Clause
- 8.1.1 on delivery to the Consignees' or other final warehouse or place of storage at the destination named herein,
- 8.1.2 on delivery to any other warehouse or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either
- 8.1.2.1 for storage other than in the ordinary course of transit
- 8.1.2.2 for allocation or distribution,
- or
- 8.1.3 on the expiry of 60 days after completion of discharge overside of the goods hereby insured from the oversea vessel at the final port of discharge, whichever shall first occur.
- 8.2 If, after discharge overside from the oversea vessel at the final port of discharge, but prior to termination of this insurance, the goods are to be forwarded to a destination other than that to which they are insured hereunder, this insurance, whilst remaining subject to termination as provided for above, shall not extend beyond the commencement of transit to such other destination.
- 8.3 This insurance shall remain in force (subject to termination as provided for above and to the provisions of Clause 9 below) during delay beyond the control of the Assured, any deviation, forced discharge, reshipment or transhipment and during any variation of the adventure arising from the exercise of a liberty granted to shipowners or charterers under the contract of affreightment.
9. If owing to circumstances beyond the control of the Assured either the contract of carriage is terminated at a port or place Termination of Contract of other than the destination named therein or the transit is otherwise terminated before delivery of the goods as provided for Carriage Clause in Clause 8 above, then this insurance shall also terminate unless prompt notice is given to the Underwriters and continuation of cover is requested when the insurance shall remain in force, subject to an additional premium if required by the Underwriters, either Termination of Contract of Carriage Clause
- 9.1 Until the goods are sold and delivered at such port or place, or, unless otherwise specially agreed, until the expiry of 60 days after arrival of the goods hereby insured at such port or place, whichever shall first occur,
- 9.2 If the goods are forwarded within the said period of 60 days (or any agreed extension thereof) to the destination named herein or to any other destination, until terminated in accordance with the

MARINE OPEN IMPORT DECLARATION POLICY

provisions of Clause 8 above.

10. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a premium and on conditions to be arranged subject to prompt notice being given to the Underwriters. Change of Voyage Clause
- Claims**
11. 11.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss. Insurable Interest Clause
- 11.2 Subject to 1 above, the Assured shall be entitled to recover for insured transit is terminated at a port or place other than that to which the subject-matter is covered under this insurance, the Underwriters will reimburse the Assured for any extra charges properly and reasonably incurred in unloading, storing and forwarding the subject-matter to the destination to which it is insured hereunder.
12. Where, as a result of the operation of a risk covered by this insurance, the insured transit is terminated at a port or place other than that to which the subject -matter is covered under this insurance, the Underwriters will reimburse the Assured for any extra charges properly and reasonably incurred in unloading, storing and forwarding the subject-matter to the destination to which it is insured hereunder. Forwarding Charges Clause
13. No claim for Constructive Total Loss shall be recoverable here under unless the subject-matter insured is reasonably abandoned either on account of its actual total loss appearing to be unavoidable or because the cost of recovering, reconditioning and forwarding the subject-matter to the destination to which it is insured would exceed its value on arrival. Constructive Total Loss Clause
14. 14.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured, Increased Value Clause
- 14.2 Where this Insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be such proportion as the sum insured herein bears to such total amount insurances.
- Benefit of insurance**
15. This insurance shall not inure to the benefit of the carrier or other bailee Not to Inure Clause
- Minimising losses**
16. It is the duty of the Assured and their servants and agents in respect of losses recoverable hereunder Duty of Assured Clause
- 16.1 To take such measures as may be reasonable for the purpose of averting or minimising such loss, &
- 16.2 To ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised And the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties
17. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment of otherwise prejudice the rights of either part Waiver Clause
- Avoidance of delay**
18. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control. Reasonable Despatch Clause
- Law and practice**
19. This insurance is subject to English law and practice. English Law and Practice Clause

MARINE OPEN IMPORT DECLARATION POLICY

NOTE:

It is necessary for the Assured when they become aware of an event which is "held covered" under this insurance to give prompt notice to the Underwriters and the right to such cover is dependent upon compliance with this obligation

MARINE OPEN IMPORT DECLARATION POLICY

INSTITUTE CARGO CLAUSES (C)

Risk covered	Risk Clause
<p>1. This insurance covers, except as provided in Clauses 4,5, 6 and 7 below,</p> <p>1.1 loss of or damage to the subject-matter insured reasonably attributable to</p> <p>1.1.1 Fire or explosion</p> <p>1.1.2 vessel or craft being stranded grounded sunk or capsized</p> <p>1.1.3 overturning or derailment of land conveyance</p> <p>1.1.4 collision or contact of vessel craft or conveyance with any external object other than water</p> <p>1.1.5 discharge of cargo at a port of distress,</p> <p>1.2 loss of or damage to the subject-matter insured caused by</p> <p>1.2.1 general average sacrifice</p> <p>1.2.2 jettison</p>	
<p>2. This insurance covers general average and salvage charges, adjusted or determined according to the contract of affreightment and/or the governing law and practice, incurred to avoid or in connection with the avoidance of loss from any cause except those excluded in Clauses 4, 5, 6 and 7 or elsewhere in this insurance.</p>	General Average Clause
<p>3. This insurance is extended to indemnify the Assured against such proportion of liability under the contract of affreightment "Both to Blame Collision" Clause as is in respect of a loss recoverable hereunder. In the event of any claim by shipowners under the said Clause the Assured agree to notify the Under-writers who shall have the right, at their own cost and expense, to defend the Assured against such claim.</p>	"Both to Blame Collision" Clause
<p>Exclusions</p> <p>4. In no case shall this insurance cover</p> <p>4.1 loss damage or expense attributable to wilful misconduct of the Assured</p> <p>4.2 ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured</p> <p>4.3 loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-matter insured (for the purpose of this Clause 4.3 "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)</p> <p>4.4 loss damage or expense caused by inherent vice or nature of the subject-matter insured</p> <p>4.5 loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against (except expenses payable under Clause 2 above)</p> <p>4.6 loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the vessel deliberate damage to or</p> <p>4.7 deliberate destruction of the subject-matter insured or any part thereof by the wrongful act of any person or persons</p> <p>4.8 loss damage or expense arising from the use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter</p>	General Exclusions Clause
<p>5. 5.1 In no case shall this insurance cover loss damage or expense arising from unseaworthiness of vessel or craft, unfitness of vessel craft conveyance container or liftvan for the safe carriage of the subject-matter insured where the Assured or their servants are privy to such unseaworthiness or unfitness, at the time the subject-matter insured is loaded therein.</p>	Unseaworthiness and Unfitness Exclusion Clause

MARINE OPEN IMPORT DECLARATION POLICY

- 5.2 The Underwriters waive any breach of the implied warranties of seaworthiness of the ship and fitness of the ship to carry the subject-matter insured to destination, unless the Assured or their servants are privy to such unseaworthiness or unfitness.
6. In no case shall this insurance cover loss damage or expense caused by war civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power capture seizure arrest restraint or detention, and the consequences thereof or any attempt thereat derelict mines torpedoes bombs or other derelict weapons of war. War Exclusion Clause
7. In no case shall this insurance cover loss damage or expense caused by strikers, locked-out workmen, or persons taking part in labour disturbances, riots or civil commotions resulting from strikes, lock-outs, labour disturbances, riots or civil commotions caused by any terrorist or any person acting from a political motive. Strikes Exclusion Clause
- Duration**
8. 8.1 This insurance attaches from the time the goods leave the warehouse or place of storage at the place named herein for the commencement of the transit, continues during the ordinary course of transit and terminates either Transit Clause
- 8.1.1 on delivery to the Consignees' or other final warehouse or place of storage at the destination named herein,
- 8.1.2 on delivery to any other warehouse or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either
- 8.1.2.1 for storage other than in the ordinary course of transit or
- 8.1.2.2 for allocation or distribution, or
- 8.1.3 on the expiry of 60 days after completion of discharge overseas of the goods here by insured from the overseas vessel at the final port of discharge, whichever shall first occur.
- 8.2 If, after discharge overseas from the overseas vessel at the final port of discharge, but prior to termination of this insurance, the goods are to be forwarded to a destination other than that to which they are insured hereunder, this insurance, whilst remaining subject to termination as provided for above, shall not extend beyond the commencement of transit to such other destination.
- 8.3 This insurance shall remain in force (subject to termination as provided for above and to the provisions of Clause 9 below) during delay beyond the control of the Assured, any deviation, forced discharge, reshipment or transshipment and during any variation of the adventure arising from the exercise of a liberty granted to shipowners or charterers under the contract of affreightment.
9. If owing to circumstances beyond the control of the Assured either the contract of carriage is terminated at a port or place other than the destination named therein or the transit is otherwise terminated before delivery of the goods as provided for in Clause 8 above, then this insurance shall also terminate unless prompt notice is given to the Underwriters and continuation of cover is requested when the insurance shall remain in force, subject to an additional premium if required by the Underwriters, either Termination of Contract of Carriage Clause
- 9.1 until the goods are sold and delivered at such port or place, or, unless otherwise specially agreed, until the expiry of 60 days after arrival of the goods hereby insured at such port or place, whichever shall first occur
- or
- 9.2 if the goods are forwarded within the said period of 60 days (or any agreed extension thereof) to the destination named herein or to any other destination, until terminated in accordance with the provisions of Clause 8 above.
10. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a premium and on conditions to be arranged subject to prompt notice being given to the Underwriters. Change of Voyage Clause

MARINE OPEN IMPORT DECLARATION POLICY

Claims

11. 11.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss. Insurable Interest Clause
- 11.2 Subject to 11.1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriters were not.
12. Where, as a result of the operation of a risk covered by this insurance, the insured transit is terminated at a port or place other than that to which the subject-matter is covered under this insurance, the Underwriters will reimburse the Assured for any extra charges properly and reasonably incurred in unloading, storing and forwarding the subject-matter to the destination to which it is insured here under. This Clause 12, which does not apply to general average or salvage charges, shall be subject to the exclusions contained in Clauses 4, 5, 6 and 7 above, and shall not include charges arising from the fault negligence insolvency or financial default of the Assured or their servants. Forwarding Charges Clause
13. No claim for Constructive Total Loss shall be recoverable here under unless the subject-matter insured is reasonably abandoned either on account of its actual total loss appearing to be unavoidable or because the cost of recovering, reconditioning and forwarding the subject-matter to the destination to which it is insured would exceed its value on arrival. Constructive Total Loss Clause
14. 14.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. Increased Value Clause
- 14.2 Where this Insurance is on Increased Value the following clause shall apply:
The agreed value of the cargo shall be deemed to be equal to the amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be such proportion as the sum insured herein bears to such total amount insurances.
- Benefit of insurance**
15. This insurance shall not inure to the benefit of the carrier or other bailee. Not to Inure Clause
- Minimising losses**
16. It is the duty of the Assured and their servants and agents in respect of losses recoverable hereunder Duty of Assured Clause
- 16.1 To take such measures as may be reasonable for the purpose of averting or minimising such loss,&
- 16.2 To ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised And the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties
17. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment of otherwise prejudice the rights of either party Waiver Clause
- Avoidance of delay**
18. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control. Reasonable Despatch Clause
- Law and practice**
19. This insurance is subject to English law and practice. English Law and Practice Clause

NOTE :

It is necessary for the Assured when they become aware of an event which is "held covered" under this insurance to give prompt notice to the Underwriters and the right to such cover is dependent upon compliance with this obligation

MARINE OPEN IMPORT DECLARATION POLICY

INSTITUTE WAR CLAUSES (CARGO)

Risk covered

Risks Clause

1. This insurance covers, except as provided in Clauses 3 and 4 below, loss of or damage to the subject-matter insured caused by
 - 1.1 war civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power
 - 1.2 capture seizure arrest restraint or detainment, arising from risks covered under 1.1 above, and the consequences thereof or any attempt thereat
 - 1.3 derelict mines torpedoes bombs or other derelict weapons of war.
2. This Insurance covers general average and salvage charges, adjusted or determined according to the contract of affreightment and / or the governing law and practice, incurred to avoid or in connection with the avoidance of loss from a risk covered under these clauses.

General Average Clause

Exclusions

General Exclusions Clause

3. In no case shall this insurance cover
 - 3.1 loss damage or expense attributable to wilful misconduct of the Assured
 - 3.2 ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject matter insured
 - 3.3 loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject- matter insured (for the purpose of this Clause 3.3 "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)
 - 3.4 loss damage or expense caused by inherent vice or nature of the subject- matter insured
 - 3.5 loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against (except expenses payable under Clause 2 above)
 - 3.6 loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the vessel.
 - 3.7 any claim based upon loss of or frustration of the voyage or adventure
 - 3.8 loss damage or expense arising from any hostile use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter.
4.
 - 4.1 In no case shall this insurance cover loss damage or expense arising from unseaworthiness of vessel or craft, unfitness of vessel craft conveyance container or liftvan for the safe carriage of the subject-matter insured, where the Assured or their servants are privy to such unseaworthiness or unfitness, at the time the subject-matter insured is loaded therein.
 - 4.2 The Underwriters waive any breach of the implied warranties of seaworthiness of the ship and fitness of the ship to carry the subject-matter insured to destination, unless the Assured or their servants are privy to such unseaworthiness or unfitness

Unseaworthiness and Unfitness Exclusion Clause

Duration

Transit Clause

5. 5.1 This insurance
 - 5.1.1 attaches only as the subject-matter insured and as to any part as that part is loaded on an oversea vessel and
 - 5.1.2 terminates, subject to 5.2 and 5.3 below, either as the subject-matter insured and as to any part as that part is discharged from an oversea vessel at the final port or place of discharge, or on expiry of 15 days counting from midnight of the day of arrival of the vessel at the final port or place of discharge, whichever shall first occur; nevertheless, subject to prompt notice to the Underwriters

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- and to an additional premium, such insurance
- 5.1.3 reattaches when, without having discharged the subject-matter insured at the final port or place of discharge, the vessel sails there from, and terminates, subject to 5.2 and 5.3 below, either as the subject-matter insured and as to any part that part is thereafter discharged from the vessel at the final (or substituted) port or place of discharge or on expiry of 15 days counting from midnight of the day of re-arrival of the vessel at the final port or place of discharge or arrival of the vessel at a substituted port or place of discharge, whichever shall first occur.
- 5.2 If during the insured voyage the oversea vessel arrives at an intermediate port or place to discharge the subject-matter insured for on-carriage by oversea vessel or by aircraft, or the goods are discharged from the vessel at a port or place of refuge, then, subject to 5.3 below and to an additional premium if required, this insurance continues until the expiry of 15 days counting from midnight of the day of arrival of the vessel at such port or place, but thereafter reattaches as the subject-matter insured and as to any part as that part is loaded on an on-carrying oversea vessel or aircraft. During the period of 15 days the insurance remains in force after discharge only whilst the subject-matter insured and as to any part as that part is at such port or place. If the goods are on-carried within the said period of 15 days or if the insurance reattaches as provided in this Clause 5.2
- 5.2.1 where the on-carriage is by oversea vessel this insurance continues subject to the terms of these clauses, or
- 5.2.2 where the on-carriage is by aircraft, the current Institute War Clauses (Air Cargo) (excluding sendings by Post) shall be deemed to form part of this insurance and shall apply to the on-carriage by air.
- 5.3 If the voyage in the contract of carriage is terminated at a port or place other than the destination agreed therein, such port or place shall be deemed the final port of discharge and such insurance terminates in accordance with 5.1.2. If the subject-matter insured is subsequently reshipped to the original or any other destination, then provided notice is given to the Underwriters before the commencement of such further transit and subject to an additional premium, such insurance reattaches
- 5.3.1 In the case of the subject-matter insured having been discharged, as the subject-matter insured and as to] any part as that part is loaded on the on-carrying vessel for the voyage;
- 5.3.2 In the case of the subject-matter not having been discharged, when the vessel sails from such deemed final port of discharge; thereafter such insurance terminates in accordance with 5.1.4.
- 5.4 The insurance against the risks of mines and derelict torpedoes, floating or submerged, is extended whilst the subject-matter insured or any part thereof is on craft whilst in transit to or from the oversea vessel, but in no case beyond the expiry of 60 days after discharge from the oversea vessel unless otherwise specially agreed by the Underwriters.
- 5.5 Subject to prompt notice to Underwriters, and to an additional premium if required, this insurance shall remain in force within the provisions of these Clauses during any deviation, or any variation of the adventure arising from the exercise of a liberty granted to shipowners or charterers under the contract of affreightment. (For the purpose of Clause 5 "arrival" shall be deemed to mean that the vessel is anchored, moored or otherwise secured at a berth or place within the Harbour Authority area. If such a berth or place is not available, arrival is deemed to have occurred when the vessel first anchors, moors or otherwise secures either at or off the intended port or place of discharge "oversea vessel" shall be deemed to mean a vessel carrying the subject-matter from one port or place to another where such voyage involves a sea passage by that vessel)
6. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a premium and on conditions to be arranged subject to prompt notice being given to the Underwriters. Change of Voyage Clause
7. Anything contained in this contract which is inconsistent with Clauses 3.7, 3.8 or 5 shall, to the extent of such inconsistency, be null and void.

CLAIMS

MARINE OPEN IMPORT DECLARATION POLICY

8. 8.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter Insurable Interest Clause

insured at the time of the loss.

- 8.2 Subject to 8.1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriters were not

9. 9.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances. Increased Value Clause

- 9.2 Where this insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the total amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.

BENEFIT OF INSURANCE

10. This insurance shall not inure to the benefit of the carrier or other bailee. Not to Inure Clause

MINIMISING LOSSES

11. It is the duty of the Assured and their servants and agents in respect of loss recoverable hereunder Duty of Assured Clause
- 11.1 to take such measures as may be reasonable for the purpose of averting or minimising such loss, &
- 11.2 to ensure that all rights against carriers, bailees or other third parties are properly preserved and Exercised and the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties.
12. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment or otherwise prejudice the rights of either party. Waiver Clause

AVOIDANCE OF DELAY

13. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control. Reasonable Despatch Clause

LAW AND PRACTICE

14. This insurance is subject to English law and practice. English Law and Practice Clause

MARINE OPEN IMPORT DECLARATION POLICY

INSTITUTE STRIKE CLAUSES (CARGO)

Risk covered

Risks Clause

1. This insurance covers, except as provided in Clauses 3 and 4 below, loss of or damage to the subject-matter insured caused by
 - 1.1 strikers, locked-out workmen, or persons taking part in labour disturbances, riots or civil commotions
 - 1.2 any terrorist or any person acting from a political motive
2. This insurance covers general average and salvage charges, adjusted or determined according to the contract of affreightment and/or the governing law and practice, incurred to avoid or in connection with the avoidance of loss from a risk covered under these clauses.

General Average Clause

Exclusions

3. In no case shall this insurance cover

General Exclusions Clause

- 3.1 loss damage or expense attributable to wilful misconduct of the Assured
- 3.2 ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured
- 3.3 loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-matter insured (for the purpose of this Clause 3.3 "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)
- 3.4 loss damage or expense caused by inherent vice or nature of the subject-matter insured
- 3.5 loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against (except expenses payable under Clause 2 above)
- 3.6 loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the vessel.
- 3.7 loss damage or expense arising from the absence shortage or withholding of labour of any description whatsoever resulting from any strike, lockout, labour disturbance, riot or civil commotion
- 3.8 any claim based upon loss of or frustration of the voyage or adventure
- 3.9 loss damage or expense arising from the use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter
- 3.10 loss damage or expense caused by war civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power.
4. 4.1 In no case shall this insurance cover loss damage or expense arising from unseaworthiness of vessel or craft, unfitness of vessel craft conveyance container or liftvan for the safe carriage of the subject-matter insured, where the Assured or their servants are privy to such unseaworthiness or unfitness, at the time the subject-matter insured is loaded therein.
- 4.2 The Underwriters waive any breach of the implied warranties of seaworthiness of the ship and fitness of the ship to carry the subject-matter insured to destination, unless the Assured or their servants are privy to such unseaworthiness or unfitness

Unseaworthiness and
Unfitness Exclusion Clause

Duration

5. 5.1 This insurance attaches from the time the goods leave the warehouse or place of storage at the place named herein for the commencement of the transit, continues during the ordinary course of transit and terminates either
 - 5.1.1 on delivery to the Consignees' or other final warehouse or place of storage at the destination named herein, on delivery to any other warehouse or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either
 - 5.1.1.1 for storage other than in the ordinary course of transit or

Transit Clause

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5.1.1.2 for allocation or distribution,

or

5.1.2 on the expiry of 60 days after completion of discharge overseas of the goods hereby insured from the overseas vessel at the final port of discharge, whichever shall first occur.

5.2 If, after discharge overseas from the overseas vessel at the final port of discharge, but prior to termination of this insurance, the goods are to be forwarded to a destination other than that to which they are insured hereunder, this insurance, whilst remaining subject to termination as provided for above, shall not extend beyond the commencement of transit to such other destination.

5.3 This insurance shall remain in force (subject to termination as provided for above and to the provisions of Clause 6 below) during delay beyond the control of the Assured, any deviation, forced discharge, reshipment or transshipment and during any variation of the adventure arising from the exercise of a liberty granted to shipowners or charterers under the contract of affreightment.

6. If owing to circumstances beyond the control of the Assured either the contract of carriage is terminated at a port or place other than the destination named therein or the transit is otherwise terminated before delivery of the goods as provided for in Clause 5 above, then this insurance shall also terminate unless prompt notice is given to the Underwriters and continuation of cover is requested when the insurance shall remain in force, subject to an additional premium if required by the Underwriters, either

Termination of Contract of Carriage Clause

6.1 until the goods are sold and delivered at such port or place, or unless otherwise specially agreed, until the expiry of 60 days after arrival of the goods hereby insured at such port or place, whichever shall first occur,

or

6.2 if the goods are forwarded within the said period of 60 days (or any agreed extension thereof) to the destination named herein or to any other destination, until terminated in accordance with the provisions of Clause 5 above.

7. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a premium and on conditions to be arranged subject to prompt notice being given to the Underwriters

Change of Voyage Clause

CLAIMS

8. 8.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss.

Insurable Interest Clause

8.2 Subject to 8.1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriters were not.

9. 9.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.

Increased Value Clause

9.2 Where this insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the total amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.

BENEFIT OF INSURANCE

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10. This insurance shall not inure to the benefit of the carrier or other bailee. Not to Inure Clause

MINIMISING LOSSES

11. It is the duty of the Assured and their servants and agents in respect of loss recoverable hereunder Duty of Assured Clause

11.1 to take such measures as may be reasonable for the purpose of averting or minimising such loss, and

11.2 to ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised and the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties.

12. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment or otherwise prejudice the rights of either party. Waiver Clause

AVOIDANCE OF DELAY

13. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control. Reasonable Despatch Clause

LAW AND PRACTICE

14. This insurance is subject to English law and practice. English Law and Practice Clause

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INSTITUTE WAR CANCELLATION CLAUSE (CARGO)

The cover against war risks (as defined in the relevant Institute War Clauses) may be cancelled by either the Underwriters or the Assured except in respect of any insurance which shall have attached in accordance with the conditions of the Institute War Clauses before the cancellation becomes effective. Such cancellation shall however only become effective on the expiry of 7 days from midnight of the day on which notice of the cancellation is issued by or to the Underwriters

INSTITUTE WAR CLAUSES (AIR CARGO)

(EXCLUDING SENDINGS BY POST)

Risk covered

Risks Clause

1. This insurance covers, except as provided in Clauses 2 below, loss of or damage to the subject-matter Insured caused by

- 1.1 War civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power
- 1.2 capture seizure arrest restraint or detainment, arising from risks covered under 1.1 above, and the consequences thereof or any attempt thereat
- 1.3 derelict mines torpedoes bombs or other derelict weapons of war.

Exclusions

General Exclusions Clause

2. In no case shall this insurance cover

- 2.1 loss damage or expense attributable to wilful misconduct of the Assured
- 2.2 ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured
- 2.3 loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-matter insured (for the purpose of this Clause 2.3 "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)
- 2.4 loss damage or expense caused by inherent vice or nature of the subject-matter insured
- 2.5 loss damage or expense arising from unfitness of aircraft conveyance container or liftvan for the safe carriage of the subject-matter insured, where the Assured or their servants are privy to such unfitness at the time the subject-matter insured is loaded therein
- 2.6 loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured, against
- 2.7 loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the aircraft.
- 2.8 any claim based upon loss of or frustration of the voyage or adventure
- 2.9 loss damage or expense arising from any hostile use of any weapon of war employing atomic or nuclear, fission and/or fusion or other like reaction or radioactive force or matter.

Duration

Transit Clause

3. 3.1 This insurance

- 3.1.1 attaches only as the subject-matter insured and as to any part as that part is loaded on an oversea vessel

and

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- 3.1.2 terminates, subject to 5.2 and 5.3 below, either as the subject-matter insured and as to any part as that part is discharged from an oversea vessel at the final port or place of discharge, or on expiry of 15 days counting from midnight of the day of arrival of the vessel at the final port or place of discharge, whichever shall first occur; nevertheless, subject to prompt notice to the Underwriters and to an additional premium, such insurance
- 3.1.3 reattaches when, without having discharged the subject-matter insured at the final port or place of discharge, the vessel sails there from, and
- 3.1.4 terminates, subject to 3.2 and 3.3 below, either as the subject-matter insured and as to any part that part is thereafter discharged from the vessel at the final (or substituted) port or place of discharge or on expiry of 15 days counting from midnight of the day of re-arrival of the vessel at the final port or place of discharge or arrival of the vessel at a substituted port or place of discharge, whichever shall first occur.
- 3.2 If during the insured voyage the oversea vessel arrives at an intermediate port or place to discharge the subject-matter insured for on-carriage by oversea vessel or by aircraft, or the goods are discharged from the vessel at a port or place of refuge, then, subject to 3.3 below and to an additional premium if required, this insurance continues until the expiry of 15 days counting from midnight of the day of arrival of the vessel at such port or place, but thereafter reattaches as the subject-matter insured and as to any part as that part is loaded on an on-carrying oversea vessel or aircraft. During the period of 15 days the insurance remains in force after discharge only whilst the subject-matter insured and as to any part as that part is at such port or place. If the goods are on-carried within the said period of 15 days or if the insurance reattaches as provided in this Clause 3.2
- 3.2.1 where the on-carriage is by oversea vessel this insurance continues subject to the terms of these clauses,
- or
- 3.2.2 where the on-carriage is by aircraft, the current Institute War Clauses (Air Cargo) (excluding sendings by Post) shall be deemed to form part of this insurance and shall apply to the on-carriage by air
- 3.3 If the voyage in the contract of carriage is terminated at a port or place other than the destination agreed therein, such port or place shall be deemed the final port of discharge and such insurance terminates in accordance with 3.1.2. If the subject-matter insured is subsequently reshipped to the original or any other destination, then provided notice is given to the Underwriters before the commencement of such further transit and subject to an additional premium, such insurance reattaches]
- 3.3.1 in the case of the subject-matter insured having been discharged, as the subject-matter insured and as to any part as that part is loaded on the on-carrying vessel for the voyage
- 3.3.2 in the case of the subject-matter not having been discharged, when the vessel sails from such deemed final port of discharge; thereafter such insurance terminates in accordance with 3.1.4.
- 3.4 The insurance against the risks of mines and derelict torpedoes, floating or submerged, is extended whilst the subject-matter insured or any part thereof is on craft whilst in transit to or from the oversea vessel, but in no case beyond the expiry of 60 days after discharge from the oversea vessel unless otherwise specially agreed by the Underwriters.
- 3.5 Subject to prompt notice to Underwriters, and to an additional premium if required, this insurance shall remain in force within the provisions of these Clauses during any deviation, or any variation of the adventure arising from the exercise of a liberty granted to shipowners or charterers under the contract of affreightment.
- (For the purpose of Clause 3 "arrival" shall be deemed to mean that the vessel is anchored, moored or otherwise secured at a berth or place within the Harbour Authority area. If such a berth or place is not available, arrival is deemed to have occurred when the vessel first anchors, moors or otherwise secures

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either at or off the intended port or place of discharge "oversea vessel" shall be deemed to mean a vessel carrying the subject-matter from one port or place to another where such voyage involves a sea passage by that vessel)

4. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a Premium and on conditions to be arranged subject to prompt notice being given to the Underwriters. Change of Transit Clause
5. Anything contained in this contract which is inconsistent with Clauses 2.8, 2.9, or 3 shall, to the extent of such inconsistency, be null and void.

CLAIMS

6. 6.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss. Insurable Interest Clause
- 6.2 Subject to 8.1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriters were not.
7. 7.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances. Increased Value Clause
- 7.2 Where this insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the total amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.

BENEFIT OF INSURANCE

8. This insurance shall not inure to the benefit of the carrier or other bailee. Not to Inure Class

MINIMISING LOSSES

9. It is the duty of the Assured and their servants and agents in respect of loss recoverable hereunder Duty of Assured Clause
- 9.1 to take such measures as may be reasonable for the purpose of averting or minimising such loss, &
- 9.2 to ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised and the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties.
10. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment or otherwise prejudice the rights of either party. Waiver Clause

AVOIDANCE OF DELAY

11. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control Reasonable Despatch Clause

LAW AND PRACTICE

12. This insurance is subject to English law and practice. English Law and Practice Clause

MARINE OPEN IMPORT DECLARATION POLICY

INSTITUTE CARGO CLAUSES (AIR)

(Excluding sendings by Post)

Risk covered

This insurance covers all risks of loss of or damage to the subject-matter insured except as provided in Clauses 2, 3 and 4 below Risks Clause

Exclusions

2. In no case shall this insurance cover

General Exclusions Clause

- 2.1 loss damage or expense attributable to wilful misconduct of the Assured
- 2.2 ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured
- 2.3 loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-
- 2.4 matter insured (for the purpose of this Clause 2.3 "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)
- 2.5 loss damage or expense caused by inherent vice or nature of the subject-matter insured
- 2.6 loss damage or expense arising from unfitness of aircraft conveyance container or liftvan for the safe carriage of the subject-matter insured, where the Assured or their servants are privy to such unfitness at the time the subject-matter insured is loaded therein
- 2.7 loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against
- 2.8 loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the aircraft.
- 2.9 loss damage or expense arising from the use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter.
- 3. In no case shall this insurance cover loss damage or expense caused by War Exclusion Clause
 - 3.1 war civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power
 - 3.2 capture seizure arrest restraint or detention (piracy excepted), and the consequences thereof or any attempt thereat derelict mines torpedoes bombs or other derelict weapons of war.
- 4. In no case shall this insurance cover loss damage or expense Strike Exclusion Clause
 - 4.1 caused by strikers, locked-out workmen, or persons taking part in labour disturbances, riots or civil commotions
 - 4.2 resulting from strikes, lock-outs, labour disturbances, riots or civil commotions
 - 4.3 caused by any terrorist or any person acting from a political motive.

DURATION

- 5. 5.1 This insurance attaches from the time the subject-matter insured leaves the warehouse, premises or place of storage at the place named herein for the commencement of the transit, continues during the ordinary course of transit and terminates either Transit Clause
 - 5.1.1 on delivery to the Consignees' or other final warehouse, premises or place of storage at the destination named herein,
 - 5.1.2 on delivery to any other warehouse, premises or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either
 - 5.1.2.1 for storage other than in the ordinary course of transit or
 - 5.1.2.2 for allocation or distribution or

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- 5.1.3 on the expiry of 30 days after unloading the subject-matter insured from the aircraft at the final place of discharge, whichever shall first occur.
- 5.2 If, after unloading from the aircraft at the final place of discharge, but prior to termination of this insurance, the subject-matter insured is forwarded to a destination other than that to which it is insured hereunder, this insurance, whilst remaining subject to termination as provided for above, shall not extend beyond the commencement of transit to such other destination.
- 5.3 This insurance shall remain in force (subject to termination as provided for above and to the provisions of Clause 6 below) during delay beyond the control of the Assured, any deviation, forced discharge, reshipment or transshipment and during any variation of the adventure arising from the exercise of a liberty granted to the air carriers under the contract of carriage.
6. If owing to circumstances beyond the control of the Assured either the contract of carriage is terminated at a place other than the destination named therein or the transit is otherwise terminated before delivery of the subject-matter insured as provided for in Clause 5 above, then this insurance shall also terminate unless prompt notice is given to the Underwriters and continuation of cover is requested when the insurance shall remain in force, subject to an additional premium if required by the Underwriters, either
- 6.1 until the subject-matter is sold and delivered at such place or, unless otherwise specially agreed, until the expiry of 30 days after arrival of the subject matter hereby insured at such place, whichever shall first occur, or
- 6.2 if the subject-matter is forwarded within the said period of 30 days (or any agreed extension thereof) to the destination named herein or to any other destination, until terminated in accordance with the provisions of Clause 5 above.
7. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at a premium and on conditions to be arranged subject to prompt notice being given to the Underwriters
- CLAIMS**
8. 8.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss
- 8.2 Subject to 8.1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriters were not.
9. Where, as a result of the operation of a risk covered by this insurance, the insured transit is terminated at a place other than that to which the subject-matter is covered under this insurance, the Underwriters will reimburse the Assured for any extra charges properly and reasonably incurred in unloading storing and forwarding the subject-matter to the destination to which it is insured hereunder. This Clause 9, which does not apply to general average or salvage charges, shall be subject to the exclusions contained in Clauses 2, 3 and 4 above, and shall not include charges arising from the fault negligence insolvency or financial default of the Assured or their servants.
10. No claim for Constructive Total Loss shall be recoverable hereunder unless the subject-matter insured is reasonably abandoned either on account of its actual total loss appearing to be unavoidable or because the cost of recovering, reconditioning and forwarding the subject-matter to the destination to which it is insured would exceed its value on arrival.

Termination of Contract of Carriage Clause

Change of transit Clause

Insurable Interest Clause

Forwarding Charges Clause

Constructive Total Loss Clause

MARINE OPEN IMPORT DECLARATION POLICY

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|---|------|--|---------------------------------|
| 11. | 11.1 | <p>If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.</p> | Increased Value Clause |
| | 11.2 | <p>Where this insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the total amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured.</p> | Waiver Clause |
| <p>In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all</p> <p style="padding-left: 40px;">other insurances.</p> | | | |
| <p>BENEFIT OF INSURANCE</p> | | | |
| | 12. | <p>This insurance shall not inure to the benefit of the carrier or other bailee.</p> | Not to Inure Clause |
| <p>MINIMISING LOSSES</p> | | | |
| | 13. | <p>It is the duty of the Assured and their servants and agents in respect of loss recoverable hereunder</p> | Duty of Assured Clause |
| | 13.1 | <p>to take such measures as may be reasonable for the purpose of averting or minimising such loss,</p> <p style="padding-left: 20px;">and</p> | |
| | 13.2 | <p>to ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised and the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties.</p> | |
| 14. | | <p>Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment or otherwise prejudice the rights of either party.</p> | Waiver Clause |
| <p>AVOIDANCE OF DELAY</p> | | | |
| | 15. | <p>It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control.</p> | Reasonable Despatch Clause |
| <p>LAW AND PRACTICE</p> | | | |
| | 16. | <p>This insurance is subject to English law and practice</p> | English Law and Practice Clause |

MARINE OPEN IMPORT DECLARATION POLICY

INSTITUTE STRIKE CLAUSES (AIR CARGO)

Risk covered

Risks Clause

1. This insurance covers, except as provided in Clause 2 below, loss of or damage to the subject-matter insured caused by

- 1.1 strikers, locked-out workmen, or persons taking part in labour disturbances, riots or civil commotions
- 1.2 any terrorist or any person acting from a political motive.

Exclusions

General Exclusions Clause

2. In no case shall this insurance cover

- 2.1 loss damage or expense attributable to wilful misconduct of the Assured
- 2.2 ordinary leakage, ordinary loss in weight or volume, or ordinary wear and tear of the subject-matter insured
- 2.3 loss damage or expense caused by insufficiency or unsuitability of packing or preparation of the subject-matter insured (for the purpose of this Clause 2.3 "packing" shall be deemed to include stowage in a container or liftvan but only when such stowage is carried out prior to attachment of this insurance or by the Assured or their servants)
- 2.4 loss damage or expense caused by inherent vice or nature of the subject-matter insured
- 2.5 loss damage or expense arising from unfitness of aircraft conveyance container or liftvan for the safe carriage of the subject-matter insured, where the Assured or their servants are privy to such unfitness at the time the subject-matter insured is loaded therein
- 2.6 loss damage or expense proximately caused by delay, even though the delay be caused by a risk insured against
- 2.7 loss damage or expense arising from insolvency or financial default of the owners, managers, charterers or operators of the aircraft.
 - 2.8 loss damage or expense arising from the absence shortage or withholding of labour of any description whatsoever resulting from any strike, lockout, labour disturbance, riot or civil commotion
- 2.9 any claim based upon loss of or frustration of the voyage or adventure
- 2.10 loss damage or expense arising from the use of any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter
- 2.11 loss damage or expense caused by war civil war revolution rebellion insurrection, or civil strife arising therefrom, or any hostile act by or against a belligerent power.

Duration

Transit Clause

- 3. 3.1 This insurance attaches from the time the subject-matter insured leaves the warehouse, premises or place of storage at the place named herein for the commencement of the transit, continues during the ordinary course of transit and terminates either
 - 3.1.1 on delivery to the Consignees' or other final warehouse, premises or place of storage at the destination named herein
 - 3.1.2 on delivery to any other warehouse, premises or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either
 - 3.1.2.1 for storage other than in the ordinary course of transit or
 - 3.1.2.2 for allocation or distribution or
 - 3.1.3 on the expiry of 30 days after unloading the subject-matter insured from the aircraft at the final place of discharge, whichever shall first occur.
- 3.2 If, after unloading from the aircraft at the final place of discharge, but prior to termination of this insurance, the subject-matter insured is forwarded to a destination other than that to which it is

MARINE OPEN IMPORT DECLARATION POLICY

- 3.2 insured hereunder, this insurance, whilst remaining subject to termination as provided for above, shall not extend beyond the commencement of transit to such other destination.
- 3.3 This insurance shall remain in force (subject to termination as provided for above and to the provisions of Clause 4 below) during delay beyond the control of the Assured, any deviation, forced discharge, reshipment or transshipment and during any variation of the adventure arising from the exercise of a liberty granted to the air carriers under the contract of carriage.
4. If owing to circumstances beyond the control of the Assured either the contract of carriage is terminated at a place other than the destination named therein or the transit is otherwise terminated before delivery of the subject-matter insured as provided for in Clause 3 above, then this insurance shall also terminate unless prompt notice is given to the Underwriters and continuation of cover is requested when the insurance shall remain in force, subject to an additional premium if required by the Underwriters, either
- Termination of Contract of Carriage Clause
- 4.1 until the subject-matter is sold and delivered at such place or, unless otherwise specially agreed, until the expiry of 30 days after arrival of the subject-matter hereby insured at such place, whichever shall first occur, or
- 4.2 if the subject-matter is forwarded within the said period of 30 days (or any agreed extension thereof) to the destination named herein or to any other destination, until terminated in accordance with the provisions of Clause 3 above.
5. Where, after attachment of this insurance, the destination is changed by the Assured, held covered at premium and on conditions to be arranged subject to prompt notice being given to the Underwriters.
- Change of Transit Clause
- CLAIMS**
6. 6.1 In order to recover under this insurance the Assured must have an insurable interest in the subject-matter insured at the time of the loss.
- Insurable Interest Clause
- 6.2 Subject to 6.1 above, the Assured shall be entitled to recover for insured loss occurring during the period covered by this insurance, notwithstanding that the loss occurred before the contract of insurance was concluded, unless the Assured were aware of the loss and the Underwriters were not.
7. 7.1 If any Increased Value insurance is effected by the Assured on the cargo insured herein the agreed value of the cargo shall be deemed to be increased to the total amount insured under this insurance and all Increased Value insurances covering the loss, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.
- Increased Value Clause
- 7.2 Where this insurance is on Increased Value the following clause shall apply: The agreed value of the cargo shall be deemed to be equal to the total amount insured under the primary insurance and all Increased Value insurances covering the loss and effected on the cargo by the Assured, and liability under this insurance shall be in such proportion as the sum insured herein bears to such total amount insured. In the event of claim the Assured shall provide the Underwriters with evidence of the amounts insured under all other insurances.
- BENEFIT OF INSURANCE**
8. This insurance shall not inure to the benefit of the carrier or other bailee.
- Not to Inure Clause
- MINIMISING LOSSES**
9. It is the duty of the Assured and their servants and agents in respect of loss recoverable hereunder
- Duty of Assured Clause
- 9.1 to take such measures as may be reasonable for the purpose of averting or minimising such loss,
and
- 9.2 to ensure that all rights against carriers, bailees or other third parties are properly preserved and exercised and the Underwriters will, in addition to any loss recoverable hereunder, reimburse the Assured for any charges properly and reasonably incurred in pursuance of these duties.

MARINE OPEN IMPORT DECLARATION POLICY

10. Measures taken by the Assured or the Underwriters with the object of saving, protecting or recovering the subject-matter insured shall not be considered as a waiver or acceptance of abandonment or otherwise prejudice the rights of either party. Waiver Clause

AVOIDANCE OF DELAY

11. It is a condition of this insurance that the Assured shall act with reasonable despatch in all circumstances within their control. Reasonable Despatch Clause

LAW AND PRACTICE

12. This insurance is subject to English law and practice. English Law and Practice Clause

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INSTITUTE RADIOACTIVE CONTAMINATION EXCLUSION CLAUSE

This clause shall be paramount and shall override anything contained in this insurance inconsistent therewith

1. In no case shall this insurance cover loss damage liability or expense directly or indirectly caused by or contributed to by or arising from
 - 1.1 ionising radiations from or contamination by radioactivity from any nuclear fuel or from any nuclear waste or from the combustion of nuclear fuel
 - 1.2 the radioactive, toxic, explosive or other hazardous or contaminating properties of any nuclear installation, reactor or other nuclear assembly or nuclear component thereof
 - 1.3 any weapon of war employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter.

INSTITUTE CLASSIFICATION CLAUSE

This clause shall apply only in the case of classified vessels for all or any of the Institute Cargo Clauses cover, viz., (A),

(B), (C) or (Air). In case the vessel to be used is an unclassified vessel, then, as stated in Part I of the Schedule to the policy, additional premium shall be payable by the insured, at the Company's sole discretion.

THE MARINE TRANSIT RATES AGREED FOR THIS INSURANCE APPLY ONLY TO CARGOES AND/OR INTERESTS CARRIED BY MECHANICALLY SELF-PROPELLED VESSELS OF STEEL CONSTRUCTION, CLASSED AS BELOW BY ONE OF THE FOLLOWING CLASSIFICATION SOCIETIES

Lloyd's Register

American Bureau of Shipping

Bureau Veritas

China Classification Society

Germanischer Lloyd

Korean Register of Shipping

Maritime Register of Shipping

Nippon Kaiji Kyokai

Norske Veritas

Registro Italiano

PROVIDED SUCH VESSELS ARE

1. 1.1 not bulk and/or combination carriers over 10 years of age.
 - 1.2 not mineral oil tankers exceeding 50,000 GRT which are over 10 years of age.
2. 2.1 not over 15 years of age, OR
 - 2.2 over 15 years of age but not over 25 years of age and have established and maintained a regular pattern of trading on an advertised schedule to load and unload at specified ports.

CHARTERED VESSELS AND ALSO VESSELS UNDER 1000 G.R.T. WHICH ARE MECHANICALLY SELFPROPELLED AND OF STEEL CONSTRUCTION MUST BE CLASSED AS ABOVE AND NOT OVER THE AGE LIMITATIONS SPECIFIED ABOVE.

THE REQUIREMENTS OF THE INSTITUTE CLASSIFICATION CLAUSE DO NOT APPLY TO ANY CRAFT, RAFT OR LIGHTER, USED TO LOAD OR UNLOAD THE VESSEL, WHILST THEY ARE WITHIN THE PORT AREA.

CARGOES AND/OR INTERESTS CARRIED BY MECHANICALLY SELFPROPELLED VESSELS NOT FALLING WITHIN THE SCOPE OF THE ABOVE ARE HELD COVERED SUBJECT TO A PREMIUM AND ON CONDITIONS TO BE AGREED.

MARINE OPEN IMPORT DECLARATION POLICY

MARINE OPEN POLICY CONDITION

EXPORT/IMPORT TRANSIT INSURANCE

1. 1.1 This Marine Open Policy is effected to insure the interest specified herein dispatched either by or for account of the Insured in which they have an insurable interest.
- 1.2 It is a condition of the Policy that the Insured are bound to declare hereunder each and every consignment without exception, Company being bound to accept upto but not exceeding the Sum Insured specified in Part I of the Schedule.
 1. **Period of Policy :**

This Policy is to remain in force for a period specified in Part I of the Schedule unless cancelled previously by either side as per Cancellation Clause herein or Sum Insured is exhausted by declarations whichever is earlier.
 2. **Declaration :**

It is hereby agreed that the Insured will record full particulars of each despatch in a Declaration Statement in the chronological order assigning declaration number for each such despatch. A copy of the statement so completed should be posted to the Company for every fortnight during the first week of the following fortnight.

Details of Declaration statement are:

1. Date and Number of:
 - 1.1 Railway Receipt;
 - 1.2 Lorry Receipt;
 - 1.3 Postal Receipt;
 - 1.4 Airway bill;
2. Description of goods despatched;
3. Value of goods as specified in Part I of the Schedule;
4. Details of packing.
 3. **Limit per Sending :**

This Policy is for total Sum Insured as mentioned in Part I of the Schedule. However, the amount declarable on any one despatch/ sending is subject to the limit per sending as specified in Part I of the Schedule.
 4. **Valuation :**

The shipments insured hereunder are to be valued as specified in Part I of the Schedule.
 5. **Cancellation:**

This Policy is subject to cancellation by either party on giving 15 days Notice in writing to this effect (except in the case of strike, riot and civil commotion risks which is subject to 48 hours notice of cancellation). Notice period shall commence from midnight of the day when it is issued. But cancellation shall not apply to any risks which have attached in accordance with the cover granted hereunder before the cancellation becomes effective. This Marine Open Policy Condition Clause shall be subject otherwise to the terms and conditions of the Marine Inland Transit Insurance Policy.

IMPORTANT NOTICE CLAUSE

Procedure in the event of loss or damage for which underwriters may be liable in respect of liability of carriers, bailees or other third parties It is the duty of the insured and their agents in all cases to take such measures as may be reasonable for the purpose of averting or minimising a loss and to ensure that all right against Carriers, Bailees or other third parties are properly preserved and exercised in particular the insured or their Agents are required:-

1. To claim immediately on the carriers, port Authorities and other Bailees for any missing packages.

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2. To apply immediately for survey by carriers or other Bailees Representatives if any loss or damage be apparent and claim on the Carriers or other Bailees for any actual loss or damage found at such survey.
3. In no circumstances except under written protest to give clean receipts where goods are in doubtful condition.
4. To give notice in writing to the Carriers or other bailees within 3 days of delivery if the loss or damage was not apparent at the time of taking delivery.

Note :

The Consignees or their Agents are recommended to make themselves familiar with Regulations of the Said Authorities at the port of discharge.

SURVEY AND CLAIMS SETTLEMENT

In the event of loss or damage which may involve a claim under the insurance immediate notice of such loss or damage should be given to and a Survey Report obtained from the settling agent specified in the Policy / Certificate of Insurance.

BASIS OF ASSESSMENT OF CLAIM

1. For total loss or non delivery of the entire insured property or the subject-matter insured, as specified, the Sum Insured.;
2. For partial non-delivery, the proportionate amount of the Sum Insured;
3. For Shortage: Proportionate Sum Insured
4. For damage to insured property.
 - 4.1 Repairable: Cost of repairs in full subject to Sum Insured being found adequate; otherwise settlement shall be subject to Condition of Average.
 - 4.2 Not Repairable: Proportionate Sum Insured for the item damaged.

DOCUMENTATION OF CLAIMS

1. Original policy or certificate of Insurance
2. Original or copy of shipping invoices ,freight invoices together with shipping specification and/ or weight notes.
3. Original Bill of Lading and/ or other contract of carriage like Atrway Bill/Consignment Note(including Reverse side)
4. Survey report or other documentary evidence to show the extent of the loss or damage
5. Landing account and weight notes. Remarks last at use at destination
6. Correspondence exchanged with the Carriers and other Parties regarding their liability for the loss or damage.
7. Replacement/ Repair Quotation
8. Police Report (If applicable)

ENDORSEMENTS

1. War and Warlike Operations & Strikes, Riots and Civil Commotion

In consideration of the payment of additional premium, it is hereby declared and agreed that notwithstanding anything to the contrary contained in the within written policy, coverage under the policy is extended to:

- 1.1 Compensate the insured for loss or damage caused by war and warlike operations, as specified in the Institute War Clauses (Cargo) or the Institute War Clauses (Air Cargo), as applicable, appended hereafter, for which a claim is made by the insured and accepted by the Company. Provided that the extension hereinabove is subject to the Institute War Cancellation Clause (Cargo) as appended hereafter.
- 1.2 Compensate the insured for loss or damage caused by strikes, riots and civil commotion, as specified in the Institute Strikes Clauses (Cargo) or the Institute Strikes Clauses (Air Cargo), as

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- 1.2 Compensate the insured for loss or damage caused by strikes, riots and civil commotion, as specified in the Institute Strikes Clauses (Cargo) or the Institute Strikes Clauses (Air Cargo), as

It is further agreed that the War exclusion clause under Institute Cargo Clauses (A), (B) or (C) or under the Institute Cargo Clauses (Air) as made applicable vide the scope of cover above, as the case may be, stands deleted.

It is further agreed that the Strikes exclusion clause under Institute Cargo Clauses (A), (B) or (C) or under the Institute Cargo Clauses (Air) as made applicable vide the scope of cover above, stands deleted.

Subject otherwise to the terms and conditions of this policy.

2. Duty Insurance Cover

In consideration of the payment of additional premium, it is hereby declared and agreed that notwithstanding anything to the contrary contained in the within written policy, coverage under the policy is extended to compensate the insured for customs duty charged on the cargo, as specified in the Duty Insurance Clause below, for which a claim is made by the insured and accepted by the Company

Subject otherwise to the terms and conditions of this policy.

"DUTY" INSURANCE COVER CLAUSE

The Company hereby agrees subject to the terms, conditions and exclusions herein contained or otherwise expressed herein where an endorsement has been expressed in Part I of the Schedule as being in respect of Duty Insurance Cover

then, this insurance is on increased value of cargo by reason of payment of Customs Duty at the port or place of destination and is subject to the same clauses and condition as the insurance on cargo and to pay the same percentage of duty payable (excluding charges and expenses) as may be paid thereon, but excluding claims in respect of:

- 1.1 Total loss of whole or part of cargo prior to the duty becoming payable.
- 1.2 General Average, Salvage and/ or Salvage Charges arising from any casualty occurring prior to the duty becoming payable.

In ascertaining the amount of the claim recoverable hereunder credit shall be given for any rebates or refund of duty which may become allowable.

This insurance shall not be valid if effected after the arrival of the vessel at the destination port.

Warranted that :

1. The insured is the holder or assignee of the import Licence, or is the actual user who has purchased goods from recognised Export House/ Chanelising Agency
2. This policy is not assignable.
3. No claim shall be paid for Duty until the claim under the C.I.F Value insurance policy is payable and proof of liability for loss under that policy shall be furnished to the Company. This provision need not apply to cases where CIF is insured overseas due to contractual obligation.
4. This is not a valued policy as defined in the Marine Insurance Act. Claims under this policy are payable on the basis of actual duty paid or on the basis of the sum insured whichever is less.

In the event of a claim under this Policy, immediate notice of loss shall be given to the company and a reasonable opportunity given to the company to survey and assess the loss. The insured shall co-operate with the company and take all reasonable measures to minimise or prevent a loss. The insured shall also lodge a claim with the Customs Authorities within the stipulated time for refund of duty where admissible, and with the carriers or others for recovery of the duty paid in respect of such damaged or lost cargo and any recovery relating to the duty paid shall be credited to the Company.

MARINE OPEN IMPORT DECLARATION POLICY

PART III OF SCHEDULE

Standard Terms And Conditions

1. Incontestability and Duty of Disclosure

The policy shall be null and void and no benefit shall be payable in the event of untrue or incorrect statements, misrepresentation, misdescription or non-disclosure in any material particular in the proposal form, personal statement, declaration and connected documents, or any material information having been withheld, or a claim being fraudulent or any fraudulent means or devices being used by the Insured or any one acting on his behalf to obtain any benefit under this policy.

2. Reasonable Care

The Insured shall take all reasonable steps to safeguard the interests of the Insured against accidental loss, or damage that may give rise to the claim.

3. Observance of terms and conditions

The due observance and fulfillment of the terms, conditions and endorsements of this policy in so far as they relate to anything to be done or complied with by the Insured, shall be a condition precedent to any liability of the Company to make any payment under this policy.

4. Material change

The Insured shall immediately notify the Company by fax and in writing of any material change in the risk and cause at his own expense such additional precautions to be taken as circumstances may require to ensure safe operation of the Insured items or trade or business practices thereby containing the circumstances that may give rise to the claim and the Company may, adjust the scope of cover and / or premium, if necessary, accordingly.

5. Records to be maintained

The Insured shall keep an accurate record containing all relevant particulars and shall allow the Company to inspect such record. The Insured shall within one month after the expiry of each period of insurance furnish such information as the Company may require.

6. No constructive Notice

Any of the circumstances in relation to these conditions coming to the knowledge of any official of the Company shall not be the notice to or be held to bind or prejudicially affect the Company notwithstanding subsequent acceptance of any premium.

7. Notice of charge etc.

The Company shall not be bound to notice or be affected by any notice of any trust, charge, lien, assignment or other dealing with or relating to this policy but the receipt of the Insured or his legal personal representative shall in all cases be an effectual discharge to the company.

8. Special Provisions

Any special provisions subject to which this policy has been entered into and endorsed in the policy or in any separate instrument shall be deemed to be part of this policy and shall have effect accordingly.

9. Overriding effect of Part II of the Schedule

The terms and conditions contained herein and in Part II of the Schedule shall be deemed to form part of the policy and shall be read as if they are specifically incorporated herein; however, in case of any inconsistency of any term and condition with the scope of cover contained in Part II of the Schedule, then the term(s) and condition(s) contained herein shall be read mutatis mutandis with the scope of cover/terms and conditions contained in Part II of the Schedule and shall be deemed to be modified accordingly or superseded in case of inconsistency being irreconcilable.

10. Electronic Transactions

The Insured agrees to adhere to and comply with all such terms and conditions as the Company may prescribe from time to time, and hereby agrees and confirms that all transactions effected by or through facilities for conducting remote transactions including the Internet, World Wide Web, electronic data interchange, call centers, teleservice operations (whether voice, video, data or combination thereof) or by means of electronic, computer, automated machines network or through other means of telecommunication, established by or on behalf of the Company, for and in respect of the policy or its terms, or the Company's other products and services, shall constitute legally binding and valid transactions when done in adherence to and in compliance with the Company's terms and conditions for such facilities, as may be prescribed from time to time. The Insured agrees that the Company may exchange, share or part with any information to or with other ICICI Group Companies or any other person in connection with the Policy, as may be determined by the Company and shall not hold the Company liable for such use/application.

11. Duties of the Insured on occurrence of loss

On the occurrence of any loss, within the scope of cover under the policy the Insured shall:

11.1 Forthwith file/submit a Claim Form in accordance with Claim Procedure Clause as provided in Part II of the Schedule.

11.2 Allow the Surveyor or any agent of the Company to inspect the lost/damaged properties/premises/goods or any other material items, as per the Right to Inspect Clause as provided in this Part.

11.3 Assist and not hinder or prevent the Company or any of its agents in pursuance of their duties under Rights of the Company On Happening Of Loss Or Damage Clause as

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provided in this Part.

- 11.4 Not abandon the insured property/item/premises, nor take any steps to rectify/remedy the damage before the same has been approved by the Company or any of its agents or the Surveyor.

If the Insured does not comply with the provisions of this Clause or other obligations cast upon the Insured under this policy, in terms of the other clauses referred to herein or in terms of the other clauses in any of the policy documents, all benefits under the policy shall be forfeited, at the option of the Company.

12. Rights of the Company on happening of loss or damage:

On the happening of loss or damage, or circumstances that have given rise to a claim under this policy, the Company may:

- 12.1 enter and/or take possession of the insured property, where the loss or damage has happened
- 12.2 take possession of or require to be delivered to it any property of the Insured in the building or on the premises at the time of the loss or damage
- 12.3 keep possession of any such property and examine, sort, arrange, remove or otherwise deal with the same; and /
- or,
- 12.4 sell any such property or dispose of the same for account of whom it may concern.

The powers conferred by this condition shall be exercisable by the Company at any time until notice in writing is given by the Insured that he makes no claim under the policy, or if any claim is made, until such claim is finally determined or withdrawn. The Company shall not by any act done in the exercise or purported exercise of its powers hereunder incur any liability to the Insured or diminish its rights to rely upon any of the conditions of this policy in answer to any claim.

If the Insured or any person on his behalf shall not comply with the requirement of the Company, or shall hinder or obstruct the Company in the exercise of the powers hereunder, all benefits under the policy shall be forfeited at the option of the Company.

13. Right to inspect

If required by the Company, an agent/representative of the Company including a loss assessor or a Surveyor appointed in that behalf shall in case of any loss or any circumstances that have given rise to the claim to the Insured be permitted at all reasonable times to examine into the circumstances of such loss. The Insured shall on being required so to do by the Company produce all books of accounts, receipts, documents relating to or containing entries relating to the loss or such circumstance in his possession and furnish copies of or extracts from such of them as may be required by the Company so far as they relate to such claims or will in any way assist the Company to ascertain in the correctness thereof or the liability of the Company under the policy.

14. Indemnity

The Company may at its option, if applicable reinstate, replace or repair the property or premises lost or damaged or any part thereof instead of paying the amount of loss or damage or may join with any other insurer in so doing. The Company shall not be bound to reinstate exactly or completely but only as circumstances permit and in reasonably sufficient manner and in no case shall the Company be bound to expend more in reinstatement than it would have cost to reinstate such property as it was at the time of the occurrence of such loss or damage and in any event not more than the sum Insured thereon. If in any case the Company shall be unable to reinstate or repair the insured property/item hereby insured, because of any law or other regulations in force affecting insured property or otherwise, the Company shall, in every such case, only be liable to pay such sum as would be requisite under the policy.

15. Subrogation

In the event of payment under this policy, the Company shall be subrogated to all the Insured's rights or recovery thereof against any person or organisation, and the Insured shall execute and deliver instruments and papers necessary to secure such rights.

The Insured and any claimant under this policy shall at the expense of the Company do and concur in doing and permit to be done, all such acts and things as may be necessary or required by the Company, before or after Insured's indemnification, in enforcing or endorsing any rights or remedies, or of obtaining relief or indemnity, to which the Company shall be or would become entitled or subrogated

16. Contribution

If at the time of the happening of any loss or damage covered by this policy, there shall be existing any other insurance of any nature whatsoever covering the same, whether effected by the Insured or not, then the Company shall not be liable to pay or contribute more than its rateable proportion of any loss or damage.

17. Fraudulent claims

If any claim is in any respect fraudulent, or if any false statement, or declaration is made or used in support thereof, or if any fraudulent means or devices are used by the Insured or anyone acting on his behalf to obtain any benefit under this policy, or if a claim is made and rejected and no court action or suit is commenced within twelve months after such rejection or, in case of arbitration taking place as provided therein, within twelve (12) calendar months after the Arbitrator or Arbitrators have made their award, all benefits under this policy shall be forfeited

18. Cancellation/termination

The Company may at any time, cancel this policy, by giving 7 days notice in writing by Registered post/Acknowledgement Due post to the Insured at his last known address in which case the Company shall be liable to repay on demand a rateable proportion of the premium for the unexpired term from the date of the cancellation. The Insured may also give 7 days notice in writing, to the Company,

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for the cancellation of this policy, in which case the Company shall cancel the policy from the date of receipt of notice and retain the premium for the period this policy has been in force at the Company's short period scales.

19. Cause of Action/ Currency for payments

No Claims shall be payable under this policy unless the cause of action arises in India, unless otherwise specifically provided in Part II of the Schedule to this policy. All claims shall be payable in India in Indian currency only.

20. Policy Disputes

Any dispute concerning the interpretation of the terms, conditions, limitations and/or exclusions contained herein is understood and agreed to by both the Insured and the Company to be subject to Indian Law. Each party agrees to submit to the jurisdiction of the Courts in India and to comply with all requirements necessary to give such Court the jurisdiction. All matters arising hereunder shall be determined in accordance with the law and practice of such Court.

21. Renewal notice

The Company shall not be bound to accept any renewal premium nor give notice that such is due. Every renewal premium (which shall be paid and accepted in respect of this policy) shall be so paid and accepted upon the distinct understanding that no alteration has taken place in the facts contained in the proposal or declaration herein before mentioned and that nothing is known to the Insured that may result to enhance the risk of the company under the guarantee hereby given. No renewal receipt shall be valid unless it is on the printed form of the Company and signed by an authorised official of the Company

22. Notices

Any notice, direction or instruction given under this policy shall be in writing and delivered by hand, post, or facsimile to

ICICI Lombard General Insurance Company LTD

ICICI LOMBARD HOUSE, 414, Veer Savarkar Marg,

Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

In case of the Insured, at the address specified in Part I of the Schedule.

In case of the Company

ICICI Lombard General Insurance Company Limited

No.1 Cenotaph Raod, Teynampet, Chennai 600 018.

Notice and instructions will be deemed served 7 days after posting or immediately upon receipt in the case of hand delivery, facsimile or email.

23. Customer Service

If at any time the Insured requires any clarification or assistance, the Insured may contact the offices of the Company at the address specified, during normal business hours.

CARGO ISM ENDORSEMENT

" Warranted that in no case shall this insurance cover loss, damage or expense where the subject-matter insured is carried by a vessel that is not ISM Code certified or whose owners or operators do not hold an ISM Code document of Compliance when, at the time of loading of the subject-matter insured on board the vessel, the Assured were aware, or in the ordinary course of business should have been aware

1.1 Either that such vessel was not certified in accordance with the ISM Code.

1.2 Or that a current document of Compliance was not held by her owners or operators as required under the SOLAS Convention 1974 as amended.

This exclusion shall not apply where this insurance has been assigned to the party claiming hereunder who has bought or agreed to buy the subject-matter insured in good faith under a binding contract."

CARGO TERMINATION OF STORAGE IN TRANSIT CLAUSE

(For warehousing and or storage risks insured in the ordinary cause of transit)

This clause shall be paramount and shall override anything contained in this insurance inconsistent therewith.

1. Notwithstanding any provision to the contrary contained in this policy or the clauses referred to therein, it is agreed that in so far as this policy covers loss of or damage to the subject-matter insured whilst being warehoused and /or stored, this cover is conditional upon such warehousing and/or storage being in the ordinary course of transit and, in any event, SHALL TERMINATE EITHER

1.1 As per the transit clauses contained within the Policy. Or

1.2 On delivery to the Consignee's or other final warehouse or place of storage at the destination named herein,

1.3 On delivery to any other warehouse or place of storage, whether prior to or at the destination named herein, which the Assured elect to use either for storage other than in the ordinary course of transit or for allocation or distribution, Or

1.4 In the respect of marine transits, on the expiry of 60 days completion after of discharge oversea of the goods hereby insured from the oversea vessel at the final port of discharge,

1.5 In respect of air transits, on the expiry of 30 days after unloading the subject-matter insured from the aircraft at the final place of discharge. Whichever shall first occur.

2. If this Policy or the Clauses referred to therein specifically provide cover for inland or other further transits following on from storage, cover will re-attach, and continues during the ordinary course of that transit terminating again in accordance with clause 1.

MARINE OPEN IMPORT DECLARATION POLICY

Cargo Termination of Transit Clause (Terrorism)

This Clause shall be paramount and shall override anything contained in this insurance inconsistent therewith

1. Notwithstanding any provision to the contrary contained in this policy or the Clauses referred to therein, it is agreed that in so far as this policy covers loss of or damage to the subject-matter insured caused by any terrorist or any person acting from a political motive, such cover is conditional upon the subject-matter insured being in the ordinary course of transit and, in any event, SHALL TERMINATE EITHER:

- 1.1 on per the transit clauses contained within the policy,
or
- 1.2 on delivery to the consignee's or other final warehouse or place of the storage at the destination named herein.
- 1.3 on delivery to any other warehouse or place of storage, whether prior to or at the destination named herein, which the assured elect to use either for storage other than in the ordinary course of transit or for allocation or distribution
or
- 1.4 in the respect of marine transits, on the expiry of 60 days after completion of discharge overseas of the goods hereby insured from the oversea vessel at the final port of discharge,
- 1.5 in respect of air transits, on the expiry of 30 days after unloading the subject-matter insured from the aircraft at the final place of discharge.

Whichever shall be first occur

2. If this policy or the clauses referred to therein specifically provide cover for inland or other further transit following on from storage, cover will re-attach, and continues during the ordinary course of that transit terminating again in accordance with clause 1.

INSTITUTE EXTENDED RADIOACTIVE CONTAMINATION EXCLUSION CLAUSE

(01.11.02)

1. in no case shall this insurance cover loss damage liability or expense directly or indirectly caused by or contributed to arising from
 - 1.1 ionising radiation from or contamination by radioactivity from any nuclear fuel or from any nuclear waste or from the combustion of nuclear fuel.
 - 1.2 the radioactive, toxic, explosive or other hazardous or contaminating properties of any nuclear installation, reactor or other nuclear assembly or nuclear component thereof

1.3 any weapon or device employing atomic or nuclear fission and/or fusion or other like reaction or radioactive force or matter

1.4 the radioactive, toxic, explosive or other hazardous or contaminating properties of any radioactive matter. The exclusion in this sub-clause does not extend to radioactive isotopes, other than nuclear fuel, when such isotopes are being prepared, carried, stored, or used for commercial, agricultural, medical, scientific or other similar peaceful purposes.

Institute Chemical, Biological, Bio-Chemical Electromagnetic Weapons and cyber attack exclusion clause (01.11.02)

This Clause shall be paramount and shall be override anything contained in this insurance inconsistent therewith.

1. in no case shall this insurance cover loss damage liability or expense directly or indirectly caused by or contributed to by or arising from
 - 1.1 Any chemical, biological, bio - chemical or electromagnetic weapon
 - 1.2 The use or operation, as a means for inflicting harm, of any computer, computer system, computer software programme, Computer virus or process or any other electronic system.

PRIVATE CARRIERS WARRANTY

The insurer's liability shall be limited upto 75 % of the assessed loss

1. Where the consignment Note is issued limiting the liability to the carriers by special contract duly signed by the consignor, consignee or their duly authorized representative or agent or
2. Where the consignment note is issued by a Private carrier (other than the vehicle belonging to the owner of the goods) or Freight Broker or
3. Where the goods are being transported in insured's own vehicle or
4. Wherever the recovery rights are not protected by the consignee.

This warranty would not apply where loss/damage occurred whilst the goods were not in the custody of the carriers.

Arbitration Clause

The parties to the contract may mutually agree and enter into a separate Arbitration Agreement to settle any and all disputes in relation to this policy. Arbitration shall be conducted under and in accordance with the provisions of the Arbitration and Conciliation Act, 1996.

MARINE OPEN IMPORT DECLARATION POLICY

SANCTION LIMITATION AND SANCTION LIMITATION EXCLUSION CLAUSE

No (re)insurer shall be deemed to provide cover and no (re)insurer shall be liable to pay any claim or provide any benefit hereunder to the extent that the provision of such cover, payment of such claim or provision of such benefit would expose that (re)insurer to any sanction, prohibition or restriction under United Nations resolutions or the trade or economic sanctions, laws or regulations of the European Union, United Kingdom or United States of America.

11/08/10

JC2010/014

WAR AND STRIKES CANCELLATION CLAUSE (CARGO)

The cover against war risks and strikes, riots and civil commotions risks (as defined in the relevant Institute War Clauses and Institute Strikes Clauses) may be cancelled by either the Underwriters or the Assured except in respect of any insurance which shall have attached in accordance with the conditions of the Institute War Clauses and Institute Strikes Clauses before the cancellation becomes effective. Such cancellation shall however only become effective on the expiry of 7 days from midnight of the day on which notice of the cancellation is issued by or to the Underwriters.

Grievance Clause

You can also approach the Insurance Ombudsman, depending on the nature of grievance and the financial implication, if any. Information about Insurance Ombudsmen, their jurisdiction and powers is available on the website of the Insurance Regulatory and Development Authority of India (IRDAI) at www.irdai.gov.in, or of the General Insurance Council at www.generalinsurancecouncil.org.in, the Consumer Education Website of the IRDAI at <http://www.policyholder.gov.in>, or from any of Our Offices.

The details of Insurance Ombudsman are available below:-

Sr. No	Name and office of Insurance Ombudsman	Territorial Area of Jurisdiction
1	AHMEDABAD Shri Kuldip Singh, Office of the Insurance Ombudsman, Jeevan Prakash Building, 6th floor, Tilak Marg, Relief Road, Ahmedabad - 380 001. Tel.: 079-25501201/02/05/06 Email: bimalokpal.ahmedabad@cioins.co.in	Gujarat, Dadra & Nagar Haveli, Daman and Diu
2	BENGALURU Mr. Vipin Anand, Office of the Insurance Ombudsman, Jeevan Soudha Building, PID No. 57-27-N-19 Ground Floor, 19/19, 24th Main Road, JP Nagar, Ist Phase, Bengaluru - 560 078. Tel.: 080 - 26652048 / 26652049 Email: bimalokpal.bengaluru@cioins.co.in	Karnataka.
3	BHOPAL Shri R. M. Singh Office of the Insurance Ombudsman, Janak Vihar Complex, 2nd Floor, 6, Malviya Nagar, Opp. Airtel Office, Near New Market, Bhopal - 462 003. Tel.: 0755 - 2769201 / 2769202 Fax: 0755 - 2769203 Email: bimalokpal.bhopal@cioins.co.in	Madhya Pradesh, Chattisgarh.
4	BHUBANESHWAR Shri Suresh Chandra Panda, Office of the Insurance Ombudsman, 62, Forest park, Bhubneshwar - 751 009. Tel.: 0674 - 2596461 / 2596455 Fax: 0674 - 2596429	Odisha.

	Email: bimalokpal.bhubaneswar@cioins.co.in	
5	<p>CHANDIGARH Mr. Atul Jerath, Office of the Insurance Ombudsman, S.C.O. No. 101, 102 & 103, 2nd Floor, Batra Building, Sector 17 - D, Chandigarh - 160 017. Tel.: 0172 - 2706196 / 2706468 Fax: 0172 - 2708274 Email: bimalokpal.chandigarh@cioins.co.in</p>	<p>Punjab, Haryana (excluding Gurugram, Faridabad, Sonapat and Bahadurgarh), Himachal Pradesh, Union Territory of Jammu & Kashmir, Ladakh & Chandigarh.</p>
6	<p>CHENNAI Shri Segar Sampathkumar, Office of the Insurance Ombudsman, Fatima Akhtar Court, 4th Floor, 453, Anna Salai, Teynampet, CHENNAI - 600 018. Tel.: 044 - 24333668 / 24335284 Fax: 044 - 24333664 Email: bimalokpal.chennai@cioins.co.in</p>	<p>Tamil Nadu, Pondichery Town and Karaikal (which are part of Pondichery).</p>
7	<p>DELHI Shri Sudhir Krishna, Office of the Insurance Ombudsman, 2/2 A, Universal Insurance Building, Asaf Ali Road, New Delhi - 110 002. Tel.: 011 - 23232481/23213504 Email: bimalokpal.delhi@cioins.co.in</p>	<p>Delhi & following District of Haryana-Gurugram, Faridabad, Sonapat and Bahadurgarh</p>
8	<p>ERNAKULAM Shri G Radhakrishnan Office of the Insurance Ombudsman, 2nd Floor, Pulinat Bldg., Opp. Cochin Shipyard, M. G. Road, Ernakulam - 682 015. Tel.: 0484 - 2358759 / 2359338 Fax: 0484 - 2359336 Email: bimalokpal.ernakulam@cioins.co.in</p>	<p>Kerala, Lakshadweep, Mahe-a part of Puducherry.</p>
9	<p>GUWAHATI Shri Somnath Ghosh, Office of the Insurance Ombudsman, Jeevan Nivesh, 5th Floor, Nr. Panbazar over bridge, S.S. Road, Guwahati - 781001(ASSAM). Tel.: 0361 - 2632204 / 2602205 Email: bimalokpal.guwahati@cioins.co.in</p>	<p>Assam, Meghalaya, Manipur, Mizoram, Arunachal Pradesh, Nagaland and Tripura.</p>
10	<p>HYDERABAD Shri N Sankaran Office of the Insurance Ombudsman, 6-2-46, 1st floor, "Moin Court", Lane Opp. Saleem Function Palace, A. C. Guards, Lakdi-Ka-Pool, Hyderabad - 500 004. Tel.: 040 - 67504123 / 23312122 Fax: 040 - 23376599 Email: bimalokpal.hyderabad@cioins.co.in</p>	<p>Andhra Pradesh, Telangana, Yanam and Part of Territory of Puducherry.</p>
11	<p>JAIPUR Shri Rajiv Dutt Sharma, Office of the Insurance Ombudsman, Jeevan Nidhi - II Bldg., Gr. Floor, Bhawani Singh Marg, Jaipur - 302 005. Tel.: 0141 - 2740363 Email: bimalokpal.jaipur@cioins.co.in</p>	<p>Rajasthan.</p>
	<p>KOLKATA Shri P K Rath,</p>	

12	Office of the Insurance Ombudsman, Hindustan Bldg. Annexe, 4th Floor, 4, C.R. Avenue, KOLKATA - 700 072. Tel.: 033 - 22124339 / 22124340 Fax : 033 - 22124341 Email: bimalokpal.kolkata@cioins.co.in	West Bengal, Sikkim, Andaman & Nicobar Islands.
13	LUCKNOW Office of the Insurance Ombudsman, 6th Floor, Jeevan Bhawan, Phase-II, Nawal Kishore Road, Hazratganj, Lucknow - 226 001. Tel.: 0522 - 2231330 / 2231331 Fax: 0522 - 2231310 Email: bimalokpal.lucknow@cioins.co.in	Districts of Uttar Pradesh : Laitpur, Jhansi, Mahoba, Hamirpur, Banda, Chitrakoot, Allahabad, Mirzapur, Sonbhadra, Fatehpur, Pratapgarh, Jaunpur, Varanasi, Gazipur, Jalaun, Kanpur, Lucknow, Unnao, Sitapur, Lakhimpur, Bahraich, Barabanki, Raebareli, Sravasti, Gonda, Faizabad, Amethi, Kaushambi, Balrampur, Basti, Ambedkarnagar, Sultanpur, Maharajgang, Santkabirnagar, Azamgarh, Kushinagar, Gorkhpur, Deoria, Mau, Ghazipur, Chandauli, Ballia, Sidharathnagar.
14	MUMBAI Shri Bharatkumar S. Pandya Office of the Insurance Ombudsman, 3rd Floor, Jeevan Seva Annexe, S. V. Road, Santacruz (W), Mumbai - 400 054. Tel.: 022 - 26106552 / 26106960 Fax: 022 - 26106052 Email: bimalokpal.mumbai@cioins.co.in	Goa, Mumbai Metropolitan Region Excluding (Navi Mumbai & Thane).
15	NOIDA Shri Chandra Shekhar Prasad, Office of the Insurance Ombudsman, Bhagwan Sahai Palace 4th Floor, Main Road, Naya Bans, Sector 15, Distt: Gautam Buddh Nagar, U.P-201301. Tel.: 2514252 / 2514253 Email: bimalokpal.noida@cioins.co.in	State of Uttaranchal and the following Districts of Uttar Pradesh: Agra, Aligarh, Bagpat, Barcilly, Bijnor, Budaun, Bulandshchar, Etah, Kanooj, Mainpuri, Mathura, Meerut, Moradabad, Muzaffarnagar, Oraiyya, Pilibhit, Etawah, Farrukhabad, Firozbad, Gautambodhanagar, Ghaziabad, Hardoi, Shahjahanpur
16	PATNA Shri N. K Singh Office of the Insurance Ombudsman, 1st Floor, Kalpana Arcade Building, Bazar Samiti Road, Bahadurpur, Patna 800 006. Tel.: 0612-2680952 Email: bimalokpal.patna@cioins.co.in	Bihar, Jharkhand.
17	PUNE Shri Vinay Sah Office of the Insurance Ombudsman, Jeevan Darshan Bldg., 3rd Floor, C.T.S. No.s. 195 to 198, N.C. Kelkar Road, Narayan Peth, Punc - 411 030. Tel.: 020-41312555 Email: bimalokpal.pune@cioins.co.in	Maharashtra, Area of Navi Mumbai and Thane (excluding Mumbai Metropolitan Region).

The updated details of Insurance Ombudsman are available on IRDA website: www.irdaindia.org, on the website of General Insurance Council: www.generalinsurancecouncil.org.in, website of the Company www.icicilombard.com or from any of the offices of the Company

Note - In case of renewal of the policy, policy benefit and terms & conditions of policy including premium may be subject to change.
Click [Here](#) to view the Customer Information Sheet (CIS). It provides an overview of the policy features, service and claim processes, as well as other important terms.

MARINE OPEN IMPORT DECLARATION POLICY

Communicable Disease Exclusion [Clause]

1. Notwithstanding any provision, clause or term of this [insurance Contract] to the contrary, this [insurance Contract] excludes any loss, cost, damage, liability, claim, fines, penalty or expense or any other amount of whatsoever nature, whether directly or indirectly and/or in whole or in part, related to, caused by, contributed to by, resulting from, as a result of, as a consequence of, attributable to, arising out of, arising under, in connection with, or in any way involving (this includes all other terms commonly used and/or understood to reflect or describe nexus and/or connection from one thing to another whether direct or indirect):
 - 1.1 a Communicable Disease and/or the fear or threat (whether actual or perceived) of a Communicable Disease and/or the actual or alleged transmission of a Communicable Disease regardless of any other cause or event contributing and/ or occurring concurrently or in any sequence thereto, and
 - 1.2 a pandemic or epidemic, as declared by the World Health Organisation or any governmental authority.
2. As used herein, Communicable Disease means: any infectious, contagious or communicable substance or agent and/or any infectious, contagious or communicable disease which can be caused and/or transmitted by means of substance or agent where:
 - 2.1 the disease includes, but is not limited an illness, sickness, condition or an interruption or disorder of body functions, systems or organs, and
 - 2.2 the substance or agent includes, but is not limited to, a virus, bacterium, parasite, other organism or other micro-organism (whether asymptomatic or not); including any variation or mutation thereof, whether deemed living or not, and
 - 2.3 the method of transmission, whether direct or indirect, includes but not limited to, airborne transmission, bodily fluid transmission, transmission through contact with human fluids, waste or the like, transmission from or to any surface or object, solid, liquid or gas or between organisms including between humans, animals, or from any animal to any human or from any human to any animal, and
 - 2.4 the disease, substance or agent is such:
 - 2.4.1 that causes or threatens damage or can cause or threaten damage to human health or human welfare, or
 - 2.4.2 that causes or threatens damage to or can cause or threaten damage to, deterioration to, contamination of, loss of value of, loss of marketability of or loss of use or usefulness of, tangible or intangible property.

For avoidance of doubt, Communicable Disease includes but is not limited to Coronavirus Disease 2019 (Covid -19) and any variation or mutation thereof.
3. For further avoidance of doubt, any contingent or other business interruption loss, cost, damage, loss of income, loss of use, increased cost of working and/or extra expense arising out of or attributable to:
 - 3.1 any partial or complete closure of and/or slowdown in, including but not limited to any closure by or under the advisories of public, military, government or civil authorities, or any denial of access to insured premises, or customer and or supplier premises (including service / utility providers), or
 - 3.2 change in consumer behaviour, or
 - 3.3 an absence of infected employees or employees suspected of being infected shall not be covered by this [insurance Contract].
4. For still further avoidance of doubt, loss, cost, damage, liability, claim, fines, penalty or expense or any other amount excluded hereby, includes but is not limited to any cost to identify, clean-up, detoxify, disinfect, decontaminate, mitigate, remove, evacuate, repair, replace, monitor, sanitize or test: (1) for a Communicable Disease or (2) any tangible or intangible property covered by this [insurance Contract] that is affected by such Communicable Disease.
5. It is clarified that (1) no other prior, concurrent or subsequent provision, clause, term or exception of this [insurance Contract] (including (but not limited to) any prior, concurrent or subsequent endorsement and/or any provision, clause, term, buy back or exception that operates, or is intended to operate, to extend the coverage of, or protections provided by, this [insurance Contract] by whatever name called like any coverage extension, additional coverage, global extension, exception to any exclusion); (2) any change in the law, clause or similar provision; (3) any follow the fortunes clause or similar provision; and/or (4) no change in the law or any regulation (to the extent permitted by applicable law), shall operate to provide any insurance, coverage or protection under this [insurance Contract] that would otherwise be excluded through the exclusion set forth in this [Endorsement][Clause].
6. If the [insurer] alleges that by reason of this [Endorsement][Clause] any amount is not covered by this [insurance Contract] the burden of proving the contrary shall rest in the [insured].



ICICI Lombard General Insurance Company LTD
ICICI LOMBARD HOUSE, 414, Veer Savarkar Marg,
Near Siddhi Vinayak Temple, Prabhadevi, Mumbai 400 025

ICICI Lombard General Insurance Company Limited

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ANNEXURE - XXVII TO SPECIAL CONDITIONS OF CONTRACT

**[CONDITIONS FOR ISSUE AND RECONCILIATION
OF MATERIALS]**

सामग्री निर्गम एवं रिकोन्सिलिएशन के लिए शर्तें

CONDITIONS FOR ISSUE AND RECONCILIATION OF MATERIALS

2	27.03 2019	Revised & Updated	SKG	AP	AKK	RKT
1	24 01 2014	Reaffirmed & Issued as Standard	SM	DJ	RKD	SC
0	21.05 2008	Doc No 6-10-0001 Rev 0 has been revised and issued as Standard	AS	GKI	SCB	VC
Rev. No	Date	Purpose	Prepared by	Checked by	Standards Committee Convenor	Standards Bureau Chairman
					Approved by	

Abbreviations:

MS	:	Mild Steel
OFC	:	Optical Fibre Cable
OTDR	:	Optical Time Domain Report
FIM	:	Free Issue Material

Construction Standards Committee

Convenor: Sh. A K Kundu, ED –I/C (Construction)

Members: Sh. Amitava Pal, GGM (Construction)
Sh. Janak Kishore, CGM (Projects)
Sh. Rajeev Jain, GM (SCM)
Sh. Udayan Chakravarty, GM (Piping)
Sh. Ravindra Kumar, GM (Construction)
Sh. S K Goel, AGM (Construction)

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1.0 CONDITIONS FOR ISSUE OF MATERIALS

Whenever any material is issued as FIM by EIL/Owner, following conditions for issue of material in addition to other conditions specified in the contract shall be applicable:

- 1.1 Necessary indents shall be raised by the Contractor as per procedure laid down by the Engineer-in-Charge from time to time, when the materials are required for incorporation in permanent works.
- 1.2 Materials shall be issued only for permanent works and not for temporary works, enabling works etc. unless specifically approved by the Engineer-in-Charge.
- 1.3 The Contractor shall bear all other cost including lifting, carting from issue points to work site/Contractor's store, custody and handling etc. and return of surplus/serviceable scrap materials to Owner's storage points to be designated by the Engineer-in-Charge. No separate payment for such expenditure shall be made.
- 1.4 No material shall be allowed to be taken outside the plant without a gate pass.
- 1.5 The Contractor shall be responsible for proper storage, preservation and watch & ward of the materials.

2.0 RETURN OF UNUSED MATERIAL/ SCRAP

- 2.1 All unused/scrap materials shall be the property of the Owner and shall be returned in good and acceptable condition category wise by the Contractor at his own cost to Owner's Store(s).
- 2.2 No credit shall be given to the Contractor for return of scrap. The Contractor should quote the rates accordingly. Contractor shall make his own arrangements for weighing the cut offs to be returned to Owner's stores.
- 2.3 In case the Contractor fails to return unused materials/ accountable scrap, then recovery for such quantity of materials, not returned by the Contractor shall be affected at following penal rates from the Contractor's bills or from any other dues of the Contractor to the Owner:

S. No.	Material	Penal Rates
1.	(a) Penal rate for non return of accountable scrap	Issue Rate + 25% or Landed Rate + 25% (in case issue rate are not indicated in the contract)
	(b) Penal rate for return of serviceable materials in excess of permitted % allowances	
	(c) Penal rate for issuance of unplanned OFC jointing kits	
2.	(a) Penal rates for non return of Unused material and or penal rate for generating scrap in excess of permitted % allowances	Twice the Issue Rates or Twice the Landed Rates (in case Issue Rates are not indicated in the Contract)
	(b) Penal rate for using excess amount of materials like cement than permitted % allowances	

NOTE : 1) Landed Rate shall be arrived from the latest Purchase Order of respective material received at site by Owner/EIL.

- 2) In case more stringent penal rates have been indicated elsewhere in the Contract (based on Project requirement), the same shall supersede the above rates.

3.0 CEMENT

In all cases where cement is FIM and supplied by EIL/owner, following methodology shall be adopted for issue & reconciliation -

- 3.1 Cement as received from cement Manufacturer/Stockists shall be issued to the Contractor. The theoretical weight of cement in each bag for issue purpose shall be considered as 50 Kg or 20 bags per MT. However, cement bags weighing upto 4% less shall be accepted by the Contractors and charged for as full bag.
- 3.2 The Contractor is required to submit the design mix for different grades of concrete, keeping in view the requirements stipulated in IS:456 and IS 10262, specifically regarding durability, slump and water cement ratio and specific gravity of materials brought to site as analyzed in the laboratories. The design shall be based upon absolute volume method and theoretical consumption of cement shall be worked out on this basis. For other than concrete items, the coefficients for consumption of cement shall be adopted as per CPWD practice.
- 3.3 The permissible variation between Cement actually used on the job and theoretical consumption worked out on the basis stipulated in above para 3.2 and as determined by Engineer-in-Charge shall be 3% (Three percent only).

If the actual consumption is more than 103% of the theoretical consumption, then recovery at the penal rates for the quantity of cement beyond the limit of 103% of theoretical consumption shall be affected as per clause 2.3 above.

- 3.4 Unused quantity of cement shall be returned by the Contractor to the Owner's stores in good condition only.
- 3.5 The Contractor shall maintain a good store for storing cement issued to him. The flooring of the storage house, the clearances of cement bags from the side walls/ floor & stack height etc. shall be as instructed by the Engineer-in-Charge.
- 3.6 The contractor shall maintain a Cement Register in prescribed format and update the entries on daily basis.
- 3.7 The cement store shall be offered for inspection and verification by the Engineer-in-Charge or his authorized representative at any time when the Engineer-in-Charge feels the need to do so.
- 3.8 Empty cement bags shall be the property of the Contractor and shall have to be disposed off by him.

4.0 REINFORCEMENT STEEL BARS / STRUCTURAL STEEL / PLATES

In all cases where Reinforcement Steel Bars/ Structural Steel/ Plates is FIM and supplied by EIL/owner, following methodology shall be adopted for issue & reconciliation -

- 4.1 The scrap allowance for the reinforcement bars/structural steel including steel plate issued by the Owner, shall be total 3% (2.5% accountable and 0.5% unaccountable) of the actual consumption as incorporated in the works.
- 4.2 All serviceable reinforcement bars/structural steel/steel plates shall be issued in available length/shapes/sizes and no claims for extra payment on account of issue of non-standard

lengths/shapes/sizes and bending etc. shall be entertained. Reinforcement bars and structural steel shall be issued on weight basis as per normal warehousing practice. In exceptional circumstances, the reinforcement bars/ structural steel, if issued on linear measurement, the IS coefficients for unit weight shall be considered. For the purpose of billing and accounting, only linear measurements shall be taken and weight shall be calculated as per IS coefficients in three decimals. The difference in unit weight as per IS and actual as issued, if any, shall be to Contractor's account and Contractor is deemed to have considered the same at the time of bidding.

4.3 Reinforcement bars/structural steel/steel plates shall be issued only for those items where Owner's supply has been specifically mentioned in Schedule of Rates/ Scope of Supply. The storage of these items shall be done in such a way so as to avoid rusting/ damage to any kind to the materials.

4.4 All reinforcement bars/structural steel (except M.S. Plates) in length of 2 meters and above shall be considered as serviceable materials provided the material is in good and acceptable condition. Reinforcement bars/structural steel section (except M.S. Plates) in lengths less than 2M shall be treated as scrap.

The contractor shall strive to avoid generation of cut pieces of length 2m and above, as far as practicable, by effectively planning & executing the construction works.

4.5 For the purpose of accounting of the plates, all plates measuring not less than 1 Sq.m in area and having any dimensions not less than 200mm when returned to Owner's store, shall be considered as serviceable material. All other pieces shall be treated as wastage/scrap. The Contractor shall prepare a plate cutting diagram in such a way that the minimum scrap is generated. Also the cut plates should be used at proper places to reduce the scrap.

4.6 The serviceable cut pieces as mentioned in 4.4 & 4.5 above shall be considered as unused material for reconciliation purpose.

4.7 Material appropriation shall be done and wherever applicable, the recovery at penal rates as per clause 2.3 above shall be affected from the contractor.

5.0 PIPING MATERIALS

In all cases where Piping Materials e.g. Pipes and Pipe fittings are FIM and supplied by EIL/owner, following methodology shall be adopted for issue & reconciliation -

5.1 All serviceable pipes shall be issued in available lengths/shapes and no claims for extra payments on account of issue of non-standard length & shape shall be entertained. Pipes shall be issued on linear measurement basis. All valves, flanges, fittings etc. shall be issued on number(s) basis. Contractor shall store the materials in such a way so as to avoid mixing of different types of material and shall maintain complete identification and traceability at all times.

5.2 The scrap allowance for pipes issued by the Owner shall be 3% (2.5% accountable + 0.5% unaccountable) of the actual consumption as incorporated in the works.

5.3 All pipes in length of 2 meters and above shall be considered as serviceable material provided the material is in good and acceptable condition and has clear identification and traceability (Manufacturer's name, heat number/batch number and test certificates). Pipes in lengths less than 2M shall be treated as scrap.

The contractor shall strive to avoid generation of cut pieces of length 2m and above, as far as practicable, by effectively planning & executing the construction works.

- 5.4 All unused/scrap pipes, valves, flanges, forged fittings like elbows, reducers tees shall be returned by the Contractor category wise duly cleaned, greased and spec. marked at his own cost to Owner's stores.
- 5.5 Material appropriation shall be done and wherever applicable, the recovery at penal rates as per clause 2.3 above shall be affected from the contractor.

6.0 EQUIPMENTS/ INSTRUMENTS

In all cases where Equipments/ Instruments are FIM and supplied by EIL/owner, following methodology shall be adopted for issue & reconciliation -

Various equipment/materials intended for the installation shall be received by Owner in unpacked, skid mounted, crated, packed or loose condition and shall be stored in the warehouses and open yards. In general, materials shall be issued to the Contractor in 'as received' condition. It shall be the Contractor's responsibility to draw, load and transport all materials from Owner's designated places of issue to the point of installation and return all packing materials like steel frames, wooden boxes/scrap etc. to Owner's stores.

All materials supplied by the Owner shall be duly protected by the Contractor at his own cost with appropriate preservative like primer, lacquer coating, grease etc. as required.

7.0 CABLES

In all cases where Cables are FIM and supplied by EIL/owner, following methodology shall be adopted for issue & appropriation /reconciliation -

- 7.1 All the surplus and serviceable cables out of the cables quantity (ies) issued by the Owner to the Contractor shall be returned by the Contractor to the Owner's store in good condition and as directed by the Engineer-in-Charge.
- 7.2 The Contractor shall be allowed a cutting/wastage allowance (accountable scrap) of 1.5% for power cables and 3% for the control cables. This cutting/wastage allowance shall be computed on the length of cables actually laid, measured and accepted.
- 7.3 All cables being returned to store should carry Aluminum sheet tags indicating the size & type of cable. Cables of less than 15 meters length shall be termed as scrap. Cables of lengths 15M and above shall be termed as serviceable material & shall be returned size wise and Category wise to the Owner's store in wooden drums. Cables of serviceable length being returned to stores in drum(s) shall be accepted only after Megger value continuity test and physical measurement is carried out by the Contractor to the satisfaction of Engineer-in-Charge. Empty cable drums and major packing material (as decided by Engineer-in-charge) shall be Owner's property and shall be returned to Owner's Store/designated place without any additional cost.

The contractor shall strive to avoid generation of cut pieces of length 15m and above, as far as practicable, by effectively planning & executing the construction works.

- 7.4 While carrying out material appropriation with the Contractor, the above points shall be taken into account. All serviceable materials returned by the Contractor (size wise & category wise) shall be deducted from the quantity (ies) issued to the Contractor for the respective sizes. Scrap generated for power cable and control cable shall also be returned to Owner's store on

Lot basis. Wherever applicable, the recovery at penal rates as per clause 2.3 above shall be affected from the contractor.

8.0 LINE PIPES

In all cases where Line Pipes are FIM and supplied by EIL/owner, following methodology shall be adopted for issue & appropriation /reconciliation

8.1 All bare/ coated line pipes as per Line Pipe specifications shall be issued on linear measurement basis. The serviceable line pipes shall be issued in available lengths and shapes and no claim for extra payment on account of issue of non-standard length and shape shall be entertained. Contractor shall store and maintain the line pipes in proper manner to avoid mixing of different classes of pipes. Contractor shall maintain complete identification and traceability at all times. All cut pieces when returned to Owner's storage points after beveling, shall be considered as serviceable material provided:

- a) Corrosion Protection Coating is intact.
- b) Pipe pieces have pipe specifications, manufacturer's logo/name and heat number duly authenticated with hard stamp of the authorized inspector as per approved procedure.

All cut pieces of pipes measuring less than 2 M shall be treated as wastage/scrap.

The contractor shall strive to avoid generation of cut pieces of length 2m and above, as far as practicable, by effectively planning & executing the construction works.

8.2 For the purpose of accounting of bare/ coated line pipes, following allowances shall be permitted:

a)	Unaccountable wastage	
	- upto 100 Km	0.1%
	- 101 to 500 Km	0.07%
	- beyond 500 Km	0.05%
b)	Scrap (All cut pieces of pipes measuring less than 2 Meter)	0.25%
c)	Serviceable materials (All cut pieces of pipe measuring 2 Meter and above)	0.5%

The percentage allowance shall be accounted on the basis of pipe book chainage for main pipeline.

8.3 Material appropriation shall be done and wherever applicable, the recovery at penal rates as per clause 2.3 above shall be affected from the contractor.

9.0 OPTICAL FIBRE CABLE

In all cases where OFC is FIM and supplied by EIL/owner, following methodology shall be adopted for issue & appropriation /reconciliation -

9.1 For the purpose of accounting of optical fibre cable, all cut pieces measuring in length of 40 m and above when returned to Owner's storage points shall be treated as serviceable materials. All cut pieces of cable measuring less than 40 M shall be treated as scrap.

For the purpose of accounting of OFC (Optical Fibre Cable) following allowances shall be permitted:

- | | | |
|----|---|-------|
| a) | Unaccountable wastage | 0.5% |
| b) | Scrap (All cut pieces of cables measuring less than 40 M) | 0.25% |
| c) | Serviceable material (measuring 40m to 750m) | 0.25% |

The percentage allowance shall be accounted on the basis of pipe book chainage for main pipeline.

Cables returned in original drum (measuring 750m and above) with Optical Time Domain Report (OTDR) shall be considered as unused material.

- 9.2** The contractor shall strive to avoid generation of cut pieces of length 40m and above, as far as practicable, by effectively planning & executing the construction works.
- 9.3** Material appropriation shall be done and wherever applicable, the recovery at penal rates as per clause 2.3 above shall be affected from the contractor.

10.0 OFC JOINTING KITS

The Contractor shall make a schedule for use of Cable jointing kits and get the same approved from Engineer-in-charge. The quantity mentioned in this schedule shall be termed as 'planned' usage quantity which shall be issued to the Contractor. However, any jointing based on site requirements as decided by Engineer-in-charge shall be included in planned quantity.

Any unplanned jointing required to be carried out by the Contractor due to reasons not attributable to Owner/EIL shall be issued from spare quantity, if available with Owner. Such unplanned OFC Jointing Kits shall be charged from the contractor at penal rates as per clause 2.3 above.

ANNEXURE - XXVIII

TO

SPECIAL CONDITIONS OF CONTRACT

CONTRACTORS PERFORMANCE EVALUATION



POLYPROPYLENE PROJECT KOCHI

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1.0 GENERAL

A system for evaluation of Contractors' performance is a key process and important to support an effective contracting function of an organization.

Performance of all contractors needs to be closely monitored to ensure complete execution of project within scheduled completion period. For timely execution of project and achieving the desired goals of the organization, it is necessary to monitor the execution of project or contracts right from the award stage to completion stage and take corrective measures in time.

2.0 OBJECTIVE

The objective of contractor performance evaluation is to ascertain the performance of the contractor with respect to satisfactory execution of work while maintaining safety and quality standards and to develop reliable contractors so that they consistently meet or exceed expectations and requirements.

The purpose of this guideline is to put in place a system to monitor performance of contractors associated with BPCL Refineries Division so as to ensure timely completion of various projects.

3.0 MEASUREMENT OF PERFORMANCE

Standard Format attached as Annexure-1 shall be used for evaluating Contractors' Performance.

4.0 BASIC OF CONTRACTORS' PERFORMANCE EVALUATION

The contractors' actual performance till actual Mechanical Completion vis-à-vis the Overall Progress S-curve finalized in the base planning package document shall form the basis for the evaluation of performance of contractor.

5.0 STAGES OF EVALUATION

Performance Evaluation of Contractor shall be done independently at following three stages

Of the project as per Overall Progress S-curve and at mechanical Completion:

- i) First performance evaluation shall be done at initial stage i.e. at 30% schedule progress stage as per Overall progress S-curve.
- ii) Second performance evaluation shall be done at mid/ peak stage i.e. at 80% schedule progress stage as per overall progress S- curve.
- iii) Third performance evaluation shall be done at Schedule completion stage i.e. at 100% schedule progress stage as per overall progress S-curve.
- iv) Fourth performance evaluation shall be done at actual completion stage i.e. at mechanical completion.

Note:

- 1) Performance evaluation by Engineer-in-charge (EIC) for stages against SN (i),(ii) & (iii) shall be carried out within a period of 01 (one) month after reaching at designated schedule progress stage.
- 2) Performance evaluation by Engineer-in-charge (EIC) for SN (iv) shall be carried out within a period of 06 (six) months after achieving Mechanical Completion.

6.0 PERFORMANCE RATING:

Depending upon the Total Marks obtained by the contractor as per Annexure-1, the performance rating of the contractor shall be finalized as per following:

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No.	% age of marks obtained	Performance Rating
1	> 80%	Very Good
2	> 60 % but ≤ 80%	Good
3	> 40% but ≤ 60%	Fair
4	≤ 40%	Unsatisfactory

7.0 ACTION BASED ON PERFORMANCE RATING

7.1 Following actions shall be taken at different evaluation stages depending upon the performance rating:

SI No	Evaluation stage	performance rating	Recommended Action
1	Initial Stage (30% Schedule Progress)	Very Good	No further action
		Good	Letter to the contractor for improving the performance in future
		Fair	Restrict Contractors' Pre-qualification in future jobs or Additional bank Guarantee in future jobs (note)
		Unsatisfactory	Banning for future jobs (Note)
2	Mid / Peak stage (80% Schedule Progress)	Very Good	No further action
		Good	Letter to the contractor for improving the performance in future
		Fair	Restrict Contractors' Pre-qualification in future jobs or Additional bank Guarantee in future jobs (note)
		Unsatisfactory	Banning for future jobs (Note)
3	Schedule Completion stage (100% Schedule Progress)	Very Good	No further action
		Good	Letter to the contractor for improving the performance in future
		Fair	Restrict Contractors' Pre-qualification in future jobs or Additional bank Guarantee in future jobs (note)
		Unsatisfactory	Banning for future jobs (Note)
4	Actual Completion stage (After Mechanical Completion)	Very Good	May be considered for Limited Tendering in future jobs
		Good	Letter to the contractor for improving the performance in future
		Fair	Restrict Contractors' Pre-qualification in future jobs (Note)
		Unsatisfactory	Banning for future jobs (Note) & Initiate action for Holiday- Listing (Note)



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Note:

In case of Fair / unsatisfactory rating, indicated penal action shall be taken for future jobs for a maximum period of 1 year across all Division, with a provision of revoking such penal action in case of improvement in performance in the job under evaluation or any other concurrent job (having contract value of minimum 80% of the job under evaluation) at similar or higher stage of evaluation in the same division.

7.2 Restriction in Contractors' pre-qualification in future jobs

In future job, prequalify the contractor only for the work of estimated value up to X% of the original contract value for which "Fair performance" rating has been given.

"X" = marks obtained by the contractor

7.3 Additional Bank Guarantee

In future jobs submit additional Bank Guarantee of an amount equivalent to 10% (ten percent) of the contract value, over & above the other bank Guarantees specified in the tender, if Contractor' performance rating is Fair on the last date of submission of Bid. This additional bank guarantee shall be submitted before signing of the contract and shall be valid up to completion of the work.

- Contractor shall have the option to choose between the above mentioned two options i.e. at sr. no,7.2 & 7.3 at the time of submission of bid for future jobs.

7.4 Banning Not to consider the contractor in future jobs.



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Annexure-1

BHARAT PETROLEUM CORPORATION LIMITED REFINERIES DIVISION

FORMAT FOR REFINERIES DIVISION

EVALUATION OF CONTRACTORS' PERFORMANCE FOR PROJECTS

1.0 Name of Contractor :

2.0 Work order No.& Date :

3.0 Name of Work :

4.0 Contract No..& Date :

5.0 Contract Value (Rs.) :

6.0 Contractual Completion Date :

7.0 Actual Completion date :
(Not Applicable for Initial/
Mid stage evaluation)

8.0 Geographical Region of work under evaluation (Please (√) mark)

1. North

2. South

3. East

4. West

9.0 Stage of Evaluation (Please (√) mark against respective stage):

1. Initial stage at 30% schedule Physical progress as per overall progress S-curve

2. Mid / peak stage at 80% schedule Physical progress as per overall progress S-curve

3. Schedules Completion stage at 100% schedule physical Progress as per overall progress S- curve

4. Actual Completion stage at mechanical completion

10.0 Allocation of marks: (To be filled up by EIC for calculation of marks)

10.1 Allocation of marks for Initial, mid / Peak & Schedule Completion stage:



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Schedule progress at completion stage	% schedule progress worked out after delay analysis	% actual Progress	Mark obtained by Contractor
	A%	B %	$C = (B/A) \times 100\%$

10.2 Allocation of marks for Actual Completion stage (i.e. Mechanical Completion):

10.2.1 In case there is NO DELAY solely attributable to contractor, marks obtained by the Contractor = 100

10.2.2 In case there is DELAY solely attributable to contractor.

Maximum marks to be considered	Delay in week(s) or part thereof	For delay up to 20 weeks : Marks to be deducted @ 1 mark per week delay or part thereof	For delay more than 20 week: Additional marks to be deducted @ 2 marks per week or part thereof for delay beyond 20 weeks	Marks obtained by Contractor
A	B	$C = B \times 1$	$D = (B - 20) \times 2$	$E = A - (C + D)$
100				

11.0 Deduction of marks on account of following:

11.1 Cash Flow issues

SN	Description	Unit Marks to be deducted / Incident	No. of Incidents	Total no. of makers to be deducted
	A	B	C	D= B × C
1	Direct payment by BPCL to subcontractor	2	.....	.....
2	Direct Payment by BPCL to contractors labour	5	.....	.....
Total marks to be deducted				.....

Note:

1. The maximum deduction of marks on account of cash flow issues of contractor shall be limited to 15 marks.
2. Incident(S) occurred in billing Cycle shall be considered as one incident.



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11.2 Part-Offloading

SN	Description	Unit Marks to be deducted / Incident	No. of Incidents	Total no. of makers to be deducted
	A	B	C	D= B × C
1	Off-loading of part work at contractors risk & cost	10	.....	.....
Total Marks to be deducted				.....

Note: The maximum deduction of marks on account of part of-loading in any work shall be limited to 20 marks.

11.3 Safety Violation

For calculation of marks towards deduction on safety violation, the following formula shall be used:

$$AFR = \frac{[(10 \times D) + I] \times 10^6}{MH}$$

Where,

- AFR - Accident Frequency Rate
- D - Total Number of Fatalities and/ or Number of permanent disabilities
- I - Number of loss time injury cases without permanent disability
- MH - Man Hours worked

SN	D	I	MH	$AFR = \frac{[(10 \times D) + I] \times 10^6}{MH}$
1				

Deduction of marks based on ARF shall be as under.

SN	AFR	Calculation of marks for deduction	Total No. of marks to be deducted
1	> 0 but ≤ 0.5	0.5	0.5
2	>0.5	{(AFR-0.5) / 0.05} × 0.25	.....
Total Marks to be deducted { SN 1 + SN 2}			.....

Note:

- Figure arrived after using the formula '{(AFR – 0.5)/ 0.05}' at SN 2 above shall be rounded up to next whole number
- The maximum deduction of marks on account of safety violation in any work shall be limited to 25 marks.
- Deductions on account of safety violation shall be applicable for the incidents occurred from start to evaluation stage.



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11.4 Delay in lining up of sub- contractor

SN	Description	Unit marks to be deducted/ week/Incident	No .of / week/ Incidents	Total no. of marks to be Deducted
	A	B	C	D = B × C
1	Delay in lining up of sub-contractor with respect to agreed schedule	1	.....	.....
Total Marks to be deducted				.....

Note:

The maximum deduction of marks on account of part offloading in any work shall be limited to 05 marks.

General Note:

The above mentioned deduction towards 11.1 & 11.2 shall be applicable for incident(s) occurred in between the successive evaluation stages only, but the deductions towards 11.3&11.4 shall be applicable for the incidents occurred from start of work to respective evaluation stage. For performance evaluation at 30% schedule progress stage, incident occurred between start of work & 30% schedule progress stage shall be considered.

11.5 Total Deduction of Marks as calculated at 11.1,11.2, 11.3, & 11.4 =

12.0 Total marks as allocated to contractor.

SN	Description	Marks
1	Marks as calculated at 10.0	A
2	Deduction of marks as calculated at 11.5	B
3	Net marks after considering Deduction	C = A- B
4	Enhancement of net marks as obtained at C by 10% for work executed in Eastern Regions (BR, HR, PDR,GR, BGR, AOD) only (note: In other regions this shall not apply)	D = C × 1.10
5	Total marks Obtained D for (Eastern Regions) or C for (other regions)	

13.0 Performance rating of Contractor:

Performance rating chart:

SN	% age of marks obtained	Performance rating
1	>80 %	Very Good
2	>60 % but ≤ 80 %	Good
3	>40 % but ≤ 60 %	Fair
4	≤ 40 %	Unsatisfactory



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Depending upon the total marks as obtained by the contractor at 12.0 above, the performance Rating of the contractor, comes out to be.....

Signature of EIC:

Name:

Designation:

Date:

ANNEXURE - XXXI TO SPECIAL CONDITIONS OF CONTRACT

**[PROCUREMENT OF TMT BARS, CEMENT AND
STRUCTURAL STEEL]**

PROCUREMENT OF CEMENT AND STEEL BY CONTRACTOR

1.0 Contract Clause for acceptance of Structural Steel & TMT Bars

1.1 Steel manufactures having valid BIS certificate and listed in the BIS website as on date of procurement of steel shall be allowed for supply of steel (Structural steel and TMT bars) and contractor shall procure from them with prior intimation to Engineer-in-charge.

1.2 Tests after receipt of structural steel at site:

In addition to availability of valid BIS license and MTC, testing at site shall be conducted by the contractor as per following requirement:

- For each category / size of structural steel procured, one sample from every 50 MT or part thereof shall be drawn and tested in approved laboratory.
- The charges for such testing shall be borne by the contractor.

1.3 Tests after receipt of TMT bars at site:

In addition to availability of valid BIS license and MTC, testing at site in approved laboratory shall be conducted by the contractor as per the following requirement:

- Under 10 mm bars one sample (diameter wise) for each 25 MT (or part thereof) for consignment below 100 MT and one sample (diameter wise) each 40 MT for consignment above 100 MT shall be tested.
- For 10 mm to 16 mm bars, one sample (diameter wise) for each 35 MT (or part thereof) for consignment below 100 MT and one sample (diameter wise) for each 45 MT (or part thereof) for consignment above 100MT shall be tested.
- Over 16 mm bars one sample (diameter wise) for each 45 MT (or part thereof) for consignment below 100 MT and one sample (diameter wise) for each 50 MT (or part thereof) for consignment above 100 MT shall be tested.
- The charges for such testing shall be borne by the contractor.

2.0 Contract Clause for acceptance of Cement manufacturer

2.1 Cement manufacturers having valid BIS certificate and listed in the BIS website as on the date of procurement of cement shall be allowed for supply of cement and contractor shall procure cement from them with prior intimation to Engineer-in-charge.

2.2 Tests after receipt of cement at site: Each batch of cement (week wise as mentioned on cement bags) supplied by the contractor after delivery at site shall be subject to the tests and analysis required by the relevant Indian Standard codes. The contractor shall carry out and bear the cost of all tests and analysis to ensure quality of cement before using in actual works.

SCHEDULE OF PRICES

FOR

**POLYPROPYLENE UNIT - FOR SETTING UP OF LAB &
ASSOCIATED SERVICES**

FOR

POLYPROPYLENE PROJECT

OF

**M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL),
KOCHI REFINERY-KR**

(BIDDING DOCUMENT NO.:SS/B895-999-EP-T-9802/1016)



PROJECT :

POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)- KOCHI REFINERY

NAME OF WORK/ITEM:

SETTING OF LABORATORY & ASSOCIATED SERVICES

BIDDING DOCUMENT NO.:

SS/B895-999-EP-T-9802/1016

NAME OF BIDDER:



INDEX TO PRICE SCHEDULE

1.	PREAMBLE TO PRICE SCHEDULE
2.00	1. FORM SP-0 : (LUMPSUM CONTRACT PRICE) (BOQ-1) 2. FORM SP-1: BREAKUP OF LUMPSUM PRICES-DESIGN & ENGINEERING (BOQ-2) 3. FORM SP-2 : BREAKUP OF LUMPSUM PRICES-SUPPLY (BOQ-3) 4. FORM SP-3 : BREAKUP OF LUMPSUM PRICES-MODULARIZATION / CONSTRUCTION/INSTALLATION, START-UP, PRE-COMMISSIONING, COMMISSIONING, GUARANTEES & PGTR, TRAINING (BOQ-4) 5. FORM SP-7 : SCHEDULE OF PRICES FOR PWCAMC (BOQ-5)
3.00	FORM SP-4 : FURTHER BREAKUP (IN PERCENTAGE) OF LUMPSUM SERVICE PRICE - ENGINEERING
4.00	FORM SP-5 : FURTHER BREAK-UP (IN PERCENTAGE) OF LUMP SUM PRICE FOR SUPPLY PORTION
5.00	FORM SP-6 : FURTHER BREAKUP OF TOTAL LUMPSUM SERVICE PRICE - CONSTRUCTION / MODULARIZATION / INSTALLATION, START-UP, PRE- COMMISSIONING, COMMISSIONING, GUARANTEES, PGTR, TRAINING
6.00	FORM SP-8A : DETAILS OF GOODS AND SERVICES TAX (GST) ON LUMPSUM PRICE QUOTED AT FORM SP-0
8.00	FORM SP-8B : DETAILS OF : GOODS AND SERVICES TAX (GST) ON POST WARRANTY COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT(PWCAMC)
9.00	FORM SP-9A : DETAILS OF CIF VALUE, CUSTOMS DUTY AND CUSTOMS RELATED DUTIES ON IMPORTED GOODS WHERE GOODS ARE CLEARED BY FILING INTO BILL OF ENTRY IN NAME OF OWNER (FOR AVAILAING BENEFITS UNDER MOOWR SCHEME)
10.00	FORM SP-9B : DETAILS OF CIF VALUE, CUSTOMS DUTY AND CUSTOMS RELATED DUTIES INCLUDED IN QUOTED SUPPLY PRICE FOR IMPORTED GOODS FOR WHICH CONTRACTOR BECOMES THE CONSIGNEE OF GOODS BY FILING BILL OF ENTRY FOR HOME CONSUMPTION
11.00	FORM SP-10 : SCHEDULE OF PRICES FOR RECOMMENDED SPARES FOR TWO YEARS OPERATION AND MAINTENANCE



PROJECT : POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)- KOCHI REFINERY

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NAME OF BIDDER: _____



PREAMBLE TO SCHEDULE OF PRICES REV.0

1	<p>Bidder's quoted prices shall be strictly as per various FORMS included under Schedule of Prices and other provisions of Bidding Document. Bidder shall quote LUMPSUM PRICE for entire scope of work as per provisions of the Bidding Document in FORM SP-0'. This LUMPSUM PRICE may also be referred to as Lumpsum Price or Contract Price.</p> <p>The above Lumpsum Price (FORM SP-0) shall be considering entire Contract as "Works Contract".</p> <p>Bidder shall also quote break up (in figures) of LUMPSUM PRICE separately for Design and Detailed Engineering (FORM SP-1), Supply (FORM SP-2) and Construction/Installation etc. (FORM SP-3) and its further break-up in percentage form as per FORM-SP-4, FORM-SP-5 & FORM-SP-6.</p> <p>Post Warranty Comprehensive Annual Maintenance Contract (PWCAMC) service charges shall be quoted in FORM SP-7 and shall not be included in Lumpsum price in SP-0, but the same shall be considered for Price evaluation.</p>
2	<p>These Breakup of Prices (i.e. FORM SP-1, SP-2, SP-3 and their further break-ups as per FORM-SP-4, FORM-SP-5 & FORM-SP-6) are only meant for the purpose of Milestone Payment and finalization of billing break-up during the execution of the Contract.</p>
3	<p>Bidder to note that breakup of lump sum price is for reference only and total price payable under the Contract shall be restricted to the Lump sum Price / Contract Price indicated in Schedule of Price FORM SP-0, except PWCAMC prices. The Price evaluation shall be based on the Lump sum Price quoted in FORM SP-0, PWCAMC charges as quoted in FORM SP-7 along-with loading of taxes & duties and Technical Loading as per provision of bidding document.</p> <p><i>In case, summation of prices quoted in FORM SP-1, SP-2, SP-3 does not match Lumpsum Prices quoted in FORM-SP-0, then the prices quoted in FORM SP-1, SP-2, SP-3 shall be proportionated to match the Lumpsum Prices quoted in FORM-SP-0, which shall be binding on the contractor.</i></p> <p><i>Similarly, in case, the summation of percentages indicated in FORM-SP-4, FORM-SP-5 & FORM-SP-6 is not 100% in the respective forms, then the break-up percentages shall be proportionated to '100%', which shall be binding on the contractor. Bidder shall submit FORM-SP-4, SP-5 & SP-6 in Unpriced Bid Only.</i></p> <p>The above Lumpsum Price (FORM SP-0) shall be considering entire Contract as "Works Contract Service".</p>
4	<p>i) The quoted price shall be inclusive of all the taxes & duties except GST (i.e. IGST or CGST and SGST/UTGST applicable in case of interstate supply or intra state supply respectively and GST Compensation cess, if applicable) as per provisions of bidding document.</p> <p>ii) For Imported Goods where goods are cleared by filing into Bill of Entry in the name of Owner (for imports under MOOWR scheme), bidder to EXCLUDE Customs Duty and other Customs related duties as per provisions of the Bidding Document.</p> <p>iii) For Imported Goods where Contractors will become consignee of the goods by filling Bill of Entry for Home consumption, Customs Duty and other Customs related duties shall be INCLUDED in the quoted supply price. Bidder to quote imported goods procured as built-in imported items for Home Consumption in INR only in FORM-SP-2.</p> <p>iv) It is clarified that prices, taxes, duties including GST on any transaction between Contractor and their sub-contractor/ sub-supplier shall be included in the Lumpsum price quoted by the Contractor. Contractor shall consider the impact of availability of Input Tax Credit on GST to the Contractor in their quoted price.</p>



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5	The quoted price shall also include, all applicable taxes, Duties, Cesses, Royalty and Levies etc. as per Bidding Documents. Insurance provision shall be as per provisions of Bidding Document.
6	The price quoted shall be lumpsum price for the entire scope of work, whether specifically mentioned or not, to be executed on Lumpsum turnkey (LSTK) basis. The total payments to be made to the Contractor shall be limited to lumpsum price indicated/finally accepted as per FORM SP-0 only subject to provisions of Bidding Document, except for PWCAMC charges.
7	Obligation of the Contractor is not limited to the quantities that the Contractor may either indicate in the Breakup of Lumpsum Prices along with his bid or in further detailed breakup of lumpsum prices furnished after award of Work during billing breakup finalization. Contractor shall carry out entire scope of work/supplies/Services as detailed in various sections/volumes of the Bidding Document within the quoted Lumpsum Price.
8	Break up of LUMPSSUM PRICE is required to be submitted in FORM SP -1, SP-2, SP-3 which shall be used for milestones payment purpose only. Further Break-up of these forms as required shall be submitted and got approved from Engineer-in-charge/Owner in the billing schedule after award of Contract. Billing Break-up shall be finalized strictly in accordance with justified value of the activity/item and the payment shall be made as per the payment terms mentioned in the Special Conditions of the Contract. Bidder to note that breakup of Lumpsum Price is for interim payment purposes only and total price payable under the Contract shall be restricted to the Lumpsum Price/Contract Price mentioned in FORM SP-0.
9.	Lumpsum price shall be deemed to be inclusive of the cost of any other supplies/work(s)/Services not specifically mentioned in the Bidding Document but are essentially required for the efficient, trouble free operation of the complete package, irrespective of whether the above unspecified supplies/work(s)/services are specifically mentioned in the bidder's bid or not.
10.	The Bidder shall carefully examine the various clauses of Bidding document inclusive of Scope of Enquiry, General Conditions of Contract, Special Conditions of Contract, Tender Specifications, Technical and Commercial Amendment(if any) etc. The bidder shall include in his prices any sum he may consider necessary to cover the fulfilment of the various clauses contained therein. The items of work described and the Lumpsum Price stated in the Schedule of Price shall be inclusive of everything necessary to complete the said items of work within the contemplation of the Contract.
11.	General directions and descriptions of work and materials given in the specifications are not necessarily repeated in the Schedule of Price.
12.	<u>CAPPING OF PRICES QUOTED IN FORM-SP-1 & SP-2:</u> <u>a) The Price for Design and Detailed Engineering quoted in FORM SP-1 shall not exceed 5% (Five Percent) of the Lumpsum Price of FORM SP-0. In case the price for Engineering Price Component exceeds the above-mentioned limit, then such additional amount shall be payable to the Contractor in the Final Bill.</u> <u>b) The Price for Design and Detailed Engineering quoted in FORM SP-1 + The Price for Supply quoted in FORM SP-2 shall not exceed 50% (Fifty Percent) of the total LumpSum Price (in FORM SP-0). In case the price for sum of Engineering and Supply component exceeds the above-mentioned limit, then such additional amount shall be payable to the Contractor in the Final Bill.</u>
	<u>CAPPING & YEAR WISE DISTRIBUTION OF PWCAMC SERVICE CHARGES:</u> Bidder shall quote total PWCAMC charges for specified period for the respective item(s)/system(s) as below, subject to minimum capping as indicated in the table. In case a bidder quotes PWCAMC charges less than the percentages specified below, the differential amount shall be retained from supply prices and shall be added to the total PWCAMC charges for the respective item(s)/system(s) for the purpose of payment during PWCAMC.



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	<u>Item Description</u>	<u>Itemwise/system Minimum PWCAMC charges in terms of % of Total Lumpsum Price Quoted in FORM SP-0</u>
13	<u>Laboratory Instruments</u>	5% of total cost estimate
	<u>Electric Traction Lift</u>	
Further yr wise % break up for each system is as follows :		
1st yr - 47%		
2ndyr - 53%		
14	Following Forms of Schedule of Price are also enclosed.	
	i) FORM SP-8A , indicating the DETAILS OF GOODS AND SERVICES TAX (GST) in respect of Lumpsum Price quoted in FORM SP-0 .	
	ii) FORM SP-8B , indicating DETAILS OF GOODS AND SERVICES TAX (GST) ON POST WARRANTEE COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT SERVICES for items as identified in FORM SP-7.	
	iii) FORM SP-9A indicating details of CIF value, Customs and Customs related duties for Imported supplies by Contractors as built in import content where goods are cleared by filing into Bill of Entry in the name of Owner (for imports under MOOWR scheme).	
	iv) FORM SP-9B indicating details of CIF value , Customs and Customs related duties for Imported supplies as built in import content where Contractors will become consignee of the goods by filling Bill of Entry for Home consumption.	
	FORM SP-10 , indicating Recommended spares for 2 (Two) years Operation and Maintenance (O&M spares) beyond defect liability period (DLP) . Prices as per FORM SP-10 shall be provided by Contractor within 3 Months finalisation of suppliers by Contractor as per provisions of SCC . v) Prices for Recommended spares for 2 years Operation and Maintenance (O&M spares) beyond defect liability period (DLP) shall not be included in included in the quoted Lumpsum Price and shall not be considered for evaluation purpose. The prices shall be valid for a period of 2 Years beyond DLP. The O&M spares required during defect liability period (DLP) shall be provided by Contractor without any extra cost as per provision of bidding document.	
15	Currency of Bid	
	Bidders are allowed to quote in currency(ies) as under:	
	i) INR for INDIAN Bidder	
	iii) However, bidder to quote prices for Modularization / Construction/Installation, Start-up, Pre-Commissioning, Commissioning, Guarantees & PGTR, Training (as per FORM-SP-3) & PWCAMC charges (as per FORM-SP-7) shall be quoted in INR only.	



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16	It shall be the sole responsibility of the CONTRACTOR to duly observe and perform and fulfil all obligations of all laws, rules, regulations, orders and formalities during the entire period/currency of the Contract, applicable to Good and Service Tax (GST), Customs Duty, etc. on the import, manufacture, sale and/or supply of any material(s)/equipment to the OWNER and performance of the works contract service under the Contract. The CONTRACTOR shall keep the OWNER and its Project Management Consultant (PMC) indemnified from and against any and all claims, demands, prosecutions, actions, proceedings, penalties, damages, demurrages and/or other levies whatsoever made or levied by any Court, Tribunal or the Customs or other Authorities with respect to any alleged breach, evasion or infraction of such duties, taxes, charges or levies or any breach or infraction of any applicable laws, rules, regulations, orders or formalities concerning the same and from the consequence thereof.
17	The Lumpsum Price of Works Contract Service shall be deemed to cover various factors including but not limited to cost of materials/equipment/Services, overheads, bidding cost, financing costs, profits, mobilization & demobilization cost, etc., as applicable. Unless the scope expressly excludes certain provisions from the CONTRACTOR's scope in the Bidding document/Contract, no additional payment on any such head expressly not mentioned herein in the Bidding Document/Contract shall be entertained on a later date.
18	Bidder shall submit their Priced Bid duly filled in with prices, stamped & signed by Bidder on each page and scanned & uploaded in the respective "PRICE BID" folder only on the e-Procurement Portal as mentioned in the ITB/IFB in the following manner:
	i) Lumpsum Price as per FORM SP-0.
	ii) Breakup of Prices as per FORM SP-1, SP-2 & SP-3.
	iii) PWAMC charges as per FORM SP-7
	iii) Details of Goods and Service Tax (GST) on SP-0 prices in FORM SP-8A & FORM-SP-8B.
	iv) Details of CIF value, Customs and Customs related duties for Imported supplies as per FORM SP-9A & FORM-SP-9B.
	In accordance with the applicable provisions of the CGST Act, the scope of work under this contract included certain scope of work, which are subject to restrictions on Input Tax Credit (ITC) eligibility under Section 17(5) of the Central Goods and Services Tax (CGST) Act. Accordingly, bidders are mandated to carry out an independent assessment of the ineligible ITC component attributable to such civil works and declare the corresponding non-creditable portion, expressed as a percentage (%) of the total lump sum price quoted in FORM SP-0. The noncreditable GST value so declared shall be considered for the purposes of bid evaluation and determination of award. Bidder to indicate the above % in Form SP-8C attached with this SOP and submit Form SP-8C in Unpriced bid. In case bidder misses to quote the above % in their Unpriced Bid, Bidder's Prices shall be evaluated considering the maximum of such "%" indicated by all quoted Bidder(s). In case BPCL is unable to take input tax credit on GST for any amount exceeding the percentage of the SP-O Price that the Bidder specified in Form SP-8C, then that excess GST amount paid by BPCL will be subtracted from the Bidder's total lumpsum price.
19	Lump sum price shall be exclusive of Comprehensive Project Insurance till handing over of the package, as per provision of the Bidding Document. However, all other insurances to be taken by the Contractor, required, if any, as per provision of the Bidding Document shall be included in the quoted Lumpsum price.
20	BREAK-UP OF DESIGN AND DETAILED ENGINEERING PRICE (SP-1) shall include, Design and Detailed engineering and Training , if any, as per requirement of Technical Part of the Bidding Document for complete work in accordance with the various provisions of the Bidding Document.



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21	<p>BREAK-UP OF SUPPLY PRICE (SP-2) shall include Supply of all Materials (except CIVIL AND STRUCTURAL MATERIALS AND OTHER MATERIALS FOR CONSTRUCTION AS SPECIFIED IN FORM SP-3) required for incorporation in the permanent Works as determined by Bidder, within the scope of work, to be necessary to establish, commission and operate the Plant/Unit, delivered in respect of imported materials/equipment and delivered for Indigenous materials/equipment, at the price of materials/equipment, as specified in the Schedule of Prices. SUPPLY PRICE shall include price of all Materials/equipment required for completion of the Works in all respects and also shall include all associated activities. The guidelines for covering the materials/equipment and associated activities under Supply Price is specified herein below:</p>
a)	SUPPLY PRICE (SP-2) shall include supply and transportation up to Project Site/ site Godown /Yard /fabrication yard of all materials as mentioned under SP-2.
b)	SUPPLY PRICE(SP-2) shall include supply of any other Materials, not mentioned under SP-2, but required as per provisions of the Bidding or Contract Documents, and as per the guidelines mentioned under this clause 20.0
c)	SUPPLY PRICE (SP-2) shall include the price of mandatory spare, O&M spares till DLP etc but exclude the price of recommended spare parts for 2 Years beyond DLP.
d)	SUPPLY PRICE(SP-2) shall include the price of spare parts for pre-commissioning, commissioning and the price for such spares shall be included in the individual equipment.
e)	SUPPLY PRICE(SP-2) shall include price for special tools and tackles, if any.
f)	SUPPLY PRICE (SP-2) shall include first fill of lubricant, chemicals etc. as applicable as per Bidding document.
g)	SUPPLY PRICE(SP-2) shall include prices for Built-In Import content billed to and shipped to in the name of Contractor and/or Owner.
h)	SUPPLY PRICE(SP-2) shall include the cost of all inspections including Third Party Inspection.
i)	SUPPLY PRICE(SP-2) shall also include any incidental or auxiliary supplies which are not specified in the Bidding Document specifically but which are required for completion of Works in all respects which could be reasonably implied from the contents of the Bidding Document.
j)	SUPPLY PRICE(SP-2) Price shall include all materials which are in the form of finished goods. Construction materials such as civil, structural architectural materials shall not be included under SP-2 and shall be included under the Price of Construction.
22	<p>BREAK-UP OF CONSTRUCTION PRICE (SP-3)</p>
a)	<p>SP-3 Price shall include supply of all construction materials as required for completion of the Work in all respects. Construction Materials, in general, shall include cement, Iron/Steel, reinforcement bar, sand, M-sand, aggregates, stones, bricks, earth and clay, woods and boards of all kinds, sanitary pipes and fittings, sewage pipes and fittings, drainage pipes and associated fixtures and fittings, cisterns, toilets, toilet seats and other sanitary fittings of any kind whatsoever, water proofing compounds, chemicals, paints, varnishes, white-washes, distempers, plaster of paris and other finishing materials whatsoever, barricading materials of all kinds and welding and other electrodes, lead, alloys& other material, compounds and consumables whatsoever involved for and / or incorporated in the permanent Works.</p>



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b)	SP- 3 Price shall include prices of all type of construction services required for completing the Works in all respects including construction, testing, pre-commissioning, commissioning and handing over to Owner. This shall include all type of Services required for completing the works in all respects as per the scope of work specified in the Bidding Document. The major services are specified here in below, without being limited to :
i)	SP-3 Price shall include - Supply, procurement, mobilization and deployment of all Skilled/ Unskilled Manpower/ labour, construction plant/equipment/machinery necessary for lifting, loading, handling, removing, transporting, unloading or securing the materials.
ii)	SP-3 Price shall include - The cost of mobilization including but not limited to mobilization of vehicles, movements, machinery, equipment, gear, tools, tackles, Heavy lift cranes of different capacities for erection Contractor's own scope of equipments& structural items, and other items and goods and personnel necessary for or to perform the works contemplated under the Contract.
iii)	SP-3 Price shall include - The cost of all construction plants and equipment, vehicles, movements, supply of water and power, construction of temporary roads and access, temporary works, pumps, wiring, pipes, scaffolding, piling, shuttering and other materials, supervision, labour, fuel, stores, geo technical investigation
iv)	SP-3 Price shall include - All supervision charges, establishment charges, overheads, contingencies, site organization, charges etc.
v)	SP-3 Price shall include - The cost of all indemnities under the Contract, and insurance premium for the "Insurance" not covered under Owner's Insurance policy but are required as per provisions of the Bidding Document.
vi)	SP-3 Price shall include - The cost of all rents, royalties, licenses, permits, permission and any other fee, duty, penalty, levy payable on the excavation, removal of transportation of any material or acquisition or use of any right of way or other right, licenses, permit, privilege, permission or uses required for the performance of work. This provision shall apply for the construction materials.
vii)	SP-3 Price shall include - Assembly of sub-assemblies, installation, alignment, welding, and completion up to Erection of all the disciplines – civil and structural, mechanical, pressure vessels, rotary equipment, package equipment, HMTD equipment, piping, electrical, instrumentation, insulation, fire proofing, refractory, painting, etc. as required according to the specifications and drawings.
viii)	SP-3 Price shall include – All Testing works including Hydraulic /pneumatic testing at Site.
ix)	SP-3 Price shall include - Pre-commissioning of the Complete Package
x)	SP-3 Price shall include - Commissioning of the Complete Package
xi)	SP-3 Price shall include - Trail runs of PP Unit Package
x)	SP-3 Price shall include - Training as per requirement of bidding Document



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xi)	<p>SP-3 Price shall include - The incidental cost arising out of Punch list/ check list issued by commissioning team of licensor or owner or operations group of owner during pre-commissioning / commissioning for smooth and trouble free operation of the system/ Package.</p>
xii)	<p>SP-3 Price shall include the cost of transportation from the factory or ware house or other places of delivery in respect of construction materials and to transport these to the Contractor's stockpiles, godowns or other places of storage approved by the Owner, and to transport the same from the said godowns or places of storage to the work site (including for SP-2 Material) for incorporation in the permanent work.</p>
xiii)	<p>SP-3 shall also include any incidental or auxiliary works which are not specified above or in the specifications or in the Conditions of Contract or in the Bidding Document specifically but which are required for completion of Works in all respects and which could be reasonably inferred from the contents of the Contract Document.</p>
23	<p>The unpriced commercial bid shall contain the unpriced copy of price bid with the word "QUOTED" mentioned in the Price Column.</p>
24	<p>Spares for start-up/commissioning and mandatory spares and any other Tools and Tackles as required are in CONTRACTOR's scope and are deemed to be included in their quoted Lumpsum Price, irrespective of whether such spares/items are categorically mentioned or not in the bidder's bid. No claim on this issue shall be entertained at a later date after award of work and at any stage during the faithful execution of the contract.</p>
25	<p><u>Form SP-7: PRICES FOR POST WARRANTEE COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT SERVICES FOR VARIOUS SYSTEMS :</u></p> <p>a. The prices for PWCAMC shall remain valid upto the defect liability period. In case of award, the price for PWCAMC shall remain firm till the completion of scope of PWCAMC.</p> <p>b. Notwithstanding any clause mentioned elsewhere in the Bidding Document, the Prices for PWCAMC shall be considered for evaluation. OWNER reserves the right to place the order for PWCAMC before completion of defect liability period.</p> <p>c. The OWNER will place separate Purchase Order/ Contract for PWCAMC on the CONTRACTOR.</p>
26	<p><u>Following shall be considered for Evaluation of Prices</u></p> <p>i) Lumpsum Prices quoted in FORM-SP-0 ii) Total Prices for PWCAMC as quoted in FORM-SP-7. iii) 100% of GST against which input credit is not available. iv) Total Present Value of Custom Duties & Related Levies (Basic Custom Duties, Social Welfare Surcharges & IGST on custom duties) for Imported supplies by Contractors as built in import content, where goods are cleared by filing into Bill of Entry in the name of Owner (for availing benefits under MOOWR scheme), calculated based on FORM-SP-9A.</p> <p>Note: 1. The factor for arriving at Present value of deferred custom duties & related levies shall be based on Plant Life of 25 Years and Discounting Factor of 12%. loading of GST against which input credit is available shall be done for bid evaluation. 2. No Since, 100% ITC is available against GST to BPCL for prices quoted in SP7, no loading on account of GST shall be done for bid evaluation. 3.</p>



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NAME OF WORK/ITEM: SETTING OF LABORATORY & ASSOCIATED SERVICES
BIDDING DOCUMENT NO.: SS/B895-999-EP-T-9802/1016)



Tender Inviting Authority:

Name of Work/Item: SETTING OF LABORATORY & ASSOCIATED SERVICES FOR PP UNIT FOR BPCL KOCHI

NOTES:

Break up of TOTAL LUMPSUM PRICE is required to be submitted in FORM SP -1, SP-2, SP-3, SP-4, SP-5, SP-6 and SP-7 which shall be used for milestones payment purpose only. Further Break-up of these forms as required shall be submitted and got approved from Engineer-in-charge/Owner in the billing schedule after award of Contract.

Bidding Document No: SS/B895-999-EP-T-9802/1016

Note: BoQ SI No. and Row SI. No. are indicative only and shall be used for reference purpose only.

Bidder Name :



SCHEDULE OF PRICE (SP-0)

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

BoQ SI. No.	Item Description	Units	Quoted Currency in INR	Total Lumpsum Price In Figures To be entered by the Bidder
1	2	5	12	13
1	The Scope of Work shall include Design, Basic engineering, Detail engineering, procurement, supply, installation, manufacturing, civil and architectural works for Lab Building, Construction of Lab Building and erection of mechanical, electrical, piping, Insulation, painting, testing, pre commissioning, commissioning and trial runs, performance guarantee test run etc. as per scope of work, drawings, data sheets, specifications and standards, good engineering practices all on lump sum turnkey basis as per the tender document.			
1.02	SP-0= SP-1+SP-2+SP-3	Lumpsum	INR	

Validate

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Tender Inviting Authority:

Name of Work/Item: SETTING OF LABORATORY & ASSOCIATED SERVICES FOR PP UNIT FOR BPCL KOCHI

Bidding Document No:SS/B895-999-EP-T-9802/1016

NOTES:

1. Break-up of Charges for all services for Design & Detailed Engineering, as per Scope defined in Technical Section of Bidding document, included in Total Contract Price (SP-0) to be indicated in this form SP-1.
2. Bidder to furnish further breakup of Form SP-1 prices in Form SP-4 in terms of percentage, in unpriced part of their bid.

Bidder Name :

SCHEDULE OF PRICE (SP-1) (LUMP SUM PRICE FOR DESIGN AND DETAILED ENGINEERING)

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

BoQ Sl. No.	Item Description	Units	Quoted Currency in INR	Total Lumpsum Price In Figures To be entered by the Bidder
1	2	5	12	13
1	BREAK UP OF LUMP SUM PRICE FOR SETTING OF LABORATORY & ASSOCIATED SERVICES (For Design & Engineering) FORM SP-1 DETAIL ENGINEERING OF ENTIRE LAB FACILITIES & INFRASTRUCTURE NEEDED FOR DEVELOPMENT OF INTERNAL LABORATORY INFRASTRUCTURE INCLUDING FIRE PROTECTION FACILITIES DURING PROCUREMENT INCLUDING INSPECTION, INSTALLATION, COMMISSIONING, TESTING AND FINAL ACCEPTANCE AS PER DETAIL SPECIFIED IN SCOPE MATRIX ELSE WHERE IN THE BID DOCUMENT as per DESCRIPTION PROVIDED IN DETAILED SCHEDULE OF PRICES (Form SP-4) & AS PER BIDDING DOCUMENTS.			
1.02	SP-1=Break-up of Design & Engineering Prices included in SP-0 Prices	Lumpsum	INR	

Tender Inviting Authority:

Name of Work/Item: SETTING OF LABORATORY & ASSOCIATED SERVICES FOR PP UNIT FOR BPCL KOCHI

Bidding Document No: SS/B895-999-EP-T-9802/1016

NOTES:

1. Break-up of Prices for Supply portion, included in Total Contract Price (SP-0) to be indicated in this form SP-2.
2. Bidder to furnish further breakup of Form SP-2 prices in Form SP-5 in terms of percentage, in unpriced part of their bid.

Bidder Name :



SCHEDULE OF PRICE (SP-2) (LUMP SUM PRICE FOR SUPPLY)

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

BoQ Sl. No.	Item Description	Units	Quoted Currency in INR	Total Lumpsum Price In Figures To be entered by the Bidder
1	2	5	12	13
1	<p>BREAK UP OF LUMP SUM PRICE FOR SETTING OF LABORATORY & ASSOCIATED SERVICES FORM SP-2</p> <p>SUPPLY OF LABORATORY INSTRUMENT & ITS ASSOCIATED ACCESSORIES, CHEMICALS, GLASSWARE, CRM / CALIBRATION BLEND, MISCELLANEOUS ITEMS, LABORATORY FURNITURE, BOOKS & STANDARDS, ITEMS PERTAINING TO SAFETY SYSTEM (FIRE SUPPRESSION & MIST SYSTEM, DETECTORS, PPE, SAFETY SURVEILLANCE SYSTEM, GAS STATION / GAS BANK INCLUDING SUPPLY OF GAS CYLINDERS WITH HIGH PURITY GASES & ASSOCIATED FITTINGS, CYLINDER STORAGE SHED, SAFETY SIGNAGE INCLUDING EMERGENCY ESCAPE, SAFETY SHOWER & EYE WASH, FIRE PROTECTION SYSTEM, MANDATORY SPARES AS SUGGESTED BY MANUFACTURERS, COMMISSIONING SPARES, SPECIAL TOOLS & TACKLES FOR MAINTANANCE PURPOSE, ESSENTIAL ACCESSORIES REQUIRED FOR SPECIFIED TEST, SPARES & CONSUMABLES SUFFICIENT FOR THE PERIOD OF 18 MONTHS AFTER COD FOR NORMAL OPERATION AND MAINTENANCE, ITEMS NEEDED FOR INSTALLATION OF HEAVIER EQUIPMENT ETC. BASED ON THE INPUT INFORMATION OBTAINED FROM DETAIL ENGINEERING AND LIST SPECIFIED IN THE TENDER DOCUMENTS PER DETAIL SPECIFIED IN SCOPE MATRIX ELSEWHERE IN THE BID DOCUMENT, (Form SP-5) & AS PER BIDDING DOCUMENTS for SETTING OF LAB & ASSOCIATED SERVICES FOR THE PROJECT.</p>			
1.02	<p>SP-2=Break-up of Supply Prices included in SP-0 Prices</p> <p>Note: Bidder to include the prices for Imported supplies in INR currency only.</p>	Lumpsum	INR	

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Tender Inviting Authority:

Name of Work/Item: SETTING OF LABORATORY & ASSOCIATED SERVICES FOR PP UNIT FOR BPCL KOCHI

Bidding Document No:SS/B895-999-EP-T-9802/1016

NOTES:

1. Break-up of Prices for Modularization/ Construction/ Installation, Start-up, Pre-Commissioning, Commissioning, Guarantees & PGTR, Training, included in Total Contract Price (SP-0) to be indicated in this form SP-3.
2. Bidder to furnish further breakup of Form SP-3 prices in Form SP-6 in terms of percentage, in unpriced part of their bid.

Bidder Name :

[Redacted bidder name field]

SCHEDULE OF PRICE (SP-3) (LUMP SUM PRICE FOR MODULARIZATION/ CONSTRUCTION/ INSTALLATION, START-UP, PRE-COMMISSIONING, COMMISSIONING, GUARANTEES & PGTR, TRAINING)

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevant columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

BoQ Sl. No.	Item Description	Units	Quoted Currency in INR	Total Lumpsum Price In Figures To be entered by the Bidder
1	2	5	12	13
1	BREAK UP OF LUMP SUM PRICE FOR SETTING OF LABORATORY & ASSOCIATED SERVICES FORM SP-3 CONSTRUCTION /INSTALLATION PORTION as per DESCRIPTION PROVIDED IN DETAILED SCHEDULE OF PRICES (Form SP-6) & AS PER BIDDING DOCUMENTS for SETTING OF LAB & ASSOCIATED SERVICES FOR THE PROJECT.			
1.01	SP-3=Break-up of Construction/Installation as above included in SP-0 prices	Lumpsum	INR	

Tender Inviting Authority:

Name of Work/Item: SETTING OF LABORATORY & ASSOCIATED SERVICES FOR PP UNIT FOR BPCL KOCHI

Bidding Document No: SS/B895-999-EP-T-9802/1016

NOTES:

- 1. Prices of PWCAMC shall not be included in Lumpsum prices of SP-0.

Bidder Name :

SCHEDULE OF PRICE (SP-7) (POST WARRANTY COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT(PWCAMC))

(This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only)

BoQ Sl. No.	Item Description	Units	Quoted Currency in INR	Total Lumpsum Price In Figures To be entered by the Bidder
1	2	5	12	13
1	POST WARRANTY COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT(PWCAMC) (FORM SP-7) [Note: Prices of PWCAMC shall not be included in prices of SP-0]			
2	2 (Two) years Post Warranty Comprehensive Annual Maintenance Contract (PWCAMC) for Laboratory Instruments as per technical portion of bidding document & as per preamble BoQ			
2.01	<u>Total Lumpsum Charges for 2 (Two) years of PWCAMC</u>	Lumpsum	INR	
3	2 (Two) years Post Warranty Comprehensive Annual Maintenance Contract (PWCAMC) for Electric Traction Lift as per technical portion of bidding document & as per preamble to BoQ			
3.1	<u>Total Lumpsum Charges for 2 (Two) years of PWCAMC</u>	Lumpsum	INR	



FORM-SP-4

**FURTHER BREAKUP OF TOTAL LUMP SUM SERVICE PRICE - ENGINEERING
(AS QUOTED IN FORM SP-1)**



Name of Work : SETTING OF LABORATORY & ASSOCIATED SERVICES

Bidding Document No:SS/B895-999-EP-T-9802/1016

Bidder Name:

Notes:

1)Bidder to furnish breakup of **Form SP-1** in **Form SP-4** in terms of % of total Engineering Service Price quoted in Form SP-1.

2)Bidder to ensure that total of percentage indicated against all the items below respectively for foreign currency and Indian Currency shall be total 100% each for Foreign Currency and Indian Currency quoted in **Form SP-4**. In case, the summation of percentages indicated herein is not **100%**, then the break-up percentages shall be proportionated to **100%** , which shall be binding on the contractor .

3)This duly filled in **Form SP-4** with % is required to be submitted in Unpriced Bid only.

SCHEDULE OF PRICE (FORM SP-4)

SL. NO.	DESCRIPTION	
		(in %)
1.1	BREAK UP OF ENGINEERING PRICE	
1-A.0	Design and Detailed Engineering of SETTING OF LAB &ASSOCIATED SERVICES FOR THE PROJECT, Break up of FORM SP-1 Price.	
1-A.1	Residual Design & Basic Engineering	
1-A.2	Detailed Engineering & Document Approval	

1-A.3	Vendors final documents for supply items duly certified by TPI	
1-A.4	As –Built Documentation	
1-A.5	3D model	
1-A.6	ANY OTHER ITEM NOT MENTIONED ABOVE BUT REQUIRED FOR COMPLETION OF Engineering (BIDDERS TO SPECIFY)	
	TOTAL OF FORM SP-4	0.00%

FORM-SP-5

FURTHER BREAK-UP (IN PERCENTAGE) OF LUMP SUM PRICE FOR SUPPLY PORTION

(AS QUOTED IN FORM SP2)

Name of Work : SETTING OF LABORATORY & ASSOCIATED SERVICES

Bidding Document No: SS/B895-999-EP-T-9802/1016

Bidder Name :



Notes:

- 1) Bidder to furnish breakup of **Form SP-2** Price in this **Form SP-5** in terms of % of **Form SP-2** prices.
- 2) Bidder to ensure that total of percentage indicated against all the items below respectively for Foreign currency and Indian Currency components shall be total 100% each for Foreign Currency and Indian Currency quoted in **Form SP-2**. In case, the summation of percentages indicated herein is not 100%, then the break-up percentages shall be proportionated to 100%, which shall be binding on the contractor .
- 3) This duly filled in **Form SP-5** with % is required to be submitted in Unpriced Bid only.

SCHEDULE OF PRICES (FORM SP-5)

SL. NO.	DESCRIPTION	In (%)
BREAK UP OF SUPPLY PRICE		
1-B.0	Supply of All equipments/materials (other than supply of materials for Civil, Structural, U/G General civil, Architectural Insulation, Painting etc. which shall be included in FORM SP-3 / FORM SP-6):	
1-B.1	Supply of All equipment and material as detailed below	
(a)	Laboratory Instrument	
(b)	CRM & CALIBRATION BLEND	
(c)	SUPPLY OF LABORATORY CHEMICALS	
(d)	SUPPLY OF UTILITIES GASES	
(e)	SUPPLY OF LABORATORY GLASSWARE	
(f)	SUPPLY OF ELECTRIC TRACTION LIFT FOR PASSENGERS	
(ae)	SUPPLY OF BOOKS AND STANDARDS FOR LABORATORY	
(af)	Miscellaneous Items (Indicative list given in SECTION C-4.1.06)	
(ag)	All Piping Materials (Including Pipes, Valves, Flanges, fittings, fasteners, gaskets and other material) as required for the entire package.	
(ah)	All Electrical Materials as required for the entire package.	

SCHEDULE OF PRICES (FORM SP-5)

SL. NO.	DESCRIPTION	In (%)
BREAK UP OF SUPPLY PRICE		
(ai)	All Instrumentation Materials as required for the entire package.	
(aj)	Mandatory & other Spares including spares for pre-commissioning and commissioning	
(ak)	Supply, Unloading, handling and storage of all chemicals and consumables (including provision of necessary facilities)	
(al)	Special Tools and Tackles	
(al)	ANY OTHER ITEM NOT MENTIONED ABOVE BUT REQUIRED FOR COMPLETION OF WORK (BIDDERS TO SPECIFY)	
	TOTAL	0.00%

NOTE:

(i)	The minor materials for Mechanical Equipment, Electrical, Instrumentation which are required in connection with site installation activities are included under Construction Portion Form SP-6 in relevant items.
(ii)	Prices are inclusive of Third Party Inspection (TPI) charges and Ocean Freight charges and Air freight charges (If any).
(iii)	Bidder to quote their prices after considering the input credit of IGST on Imports .

FORM-SP-6	
FURTHER BREAKUP OF TOTAL LUMP SUM SERVICE PRICE - CONSTRUCTION / MODULARIZATION /	
(AS QUOTED IN FORM SP3)	
Name of Work	: SETTING OF LABORATORY & ASSOCIATED SERVICES
Bidding Document No:	SS/B895-999-EP-T-9802/1016
Bidder Name:	



- Notes:**
- 1) Bidder to furnish breakup of **Form SP-3** Price in this **Form SP-6** in terms of % of **Form SP-3** prices.
 - 2) Bidder to ensure that total of percentage indicated against all the items below respectively for foreign currency and Indian Currency shall be total 100% each for Foreign Currency and Indian Currency quoted in **Form SP-3**. In case, the summation of percentages indicated herein is not 100%, then the break-up percentages shall be proportionated to 100%, which shall be binding on the contractor .
 - 3) This duly filled in **Form SP-6** with % is required to be submitted in Unpriced Bid only.

PRICE SCHEDULE (FORM SP-6)		
SL. NO.	DESCRIPTION	In (%)

BREAK UP OF CONSTRUCTION PRICE		
1-C.1	CONSTRUCTION / FABRICATION & ERECTION / INSTALLATION AS DETAILED IN FORM SP-3	
1-C.1.1	CIVIL, STRUCTURAL, ARCHITECTURAL, U/G CIVIL WORKS INCLUSIVE SUPPLY OF ASSOCIATED MATERIALS INCLUDING CONSTRUCTION OF SUPERSTRUCTURE FOR FOLLOWING FACILITIES :	
(a)	GAS STATION FOR STORAGE OF UTILITY GASES, CRM, LPG AND FIRE SUPPRESSION SYSTEM	

PRICE SCHEDULE (FORM SP-6)		
SL. NO.	DESCRIPTION	In (%)
(b)	LABORATORY INFRASTRUCTURE	

PRICE SCHEDULE (FORM SP-6)		
SL. NO.	DESCRIPTION	In (%)
(c)	FIRE PROTECTION SYSTEM , SAFETY SHOWER & EYE WASH	
1-C.1.2	INSTALLATION/ TESTING	
(a)	Installation and Testing of Laboratory Instrument	
(b)	Installation pertaining to development of Laboratory infrastructure	
(c)	FIRE PROTECTION SYSTEM, SAFETY SHOWER & EYE WASH	
1-C.1.3	Installation of all above ground Piping work as required for the entire Bidding Document	
1-C.1.4	Supply & Installation of all under ground Piping work including coating and Supply of all materials as required for the entire Bidding Document	
1-C.1.5	Installation and Testing of all Instrumentation Work as required for the entire Bidding Document	
1-C.1.6	Installation and Testing of all Electrical Work as required for the entire Bidding Document	
1-C.1.7	Supply and Installation of all Painting, Insulation, lining, coating, tiling, proofing material, etc. as required for the entire Bidding Document	
1-C.1.8	Pre-commissioning & commissioning of SETTING OF LAB & ASSOCIATED SERVICES FOR BPCL KOCHI REFINERY PROJECT	
1-C.1.9	Conducting Performance Guarantee Test Runs for SETTING OF LAB & ASSOCIATED SERVICES FOR BPCL KOCHI REFINERY PROJECT	
1-C.1.10	MISCELLANEOUS - Any other item not covered above but required for the completion of work.	

PRICE SCHEDULE (FORM SP-6)		
SL. NO.	DESCRIPTION	In (%)
	Total	0.00%

NOTE:

- (i) The breakup of prices given above are exclusive of supply of materials covered in FORM SP-5 but are inclusive of materials for Civil, Structural, U/G General Civil, Architectural, Painting, Insulation, acid/alkali proofing etc.
- (ii) Construction/ installation shall be strictly as per Tender and other documents which are part of bidding document.



POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)-
KOCHI REFINERY

Name of Work : SETTING OF LABORATORY & ASSOCIATED SERVICES

Bidding Document No: .SS/B895-999-EP-T-9802/1016

Bidder Name:

DETAILS OF GOODS AND SERVICES TAX (GST) ON LUMP SUM PRICE QUOTED AT FORM SP-0 CONSIDERING CONTRACT AS WORKS CONTRACT SERVICE [FORM SP-8A]

SL. NO.	DESCRIPTION	Total Ceiling Amount on which GST is applicable	Percentage (%) Rate of GST Applicable on (A)
		(A)	(B)
1.1	CGST + SGST/UTGST (INTRA STATE) OR IGST	As quoted in FORM-SP-0 in INR	18%

NOTE :

1	The GST shall be payable to the Contractor only upon submission of GST invoice in accordance with GST Act, subject to the ceiling mentioned in FORM- 8A. Bidder while submitting the Invoice shall clearly give the break-up of Creditable / Non-creditable GST, so that OWNER can avail Input credit as per GST Act/Rules.
2	Bidder shall submit this format alongwith his unpriced bid. Bidder shall not indicate any prices in any column.
3	GST shall be reimbursed in Indian rupees only as per the provisions of GST Act/Rules.



PROJECT : POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)- KOCHI REFINERY
OWNER : M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)
NAME OF WORK: SETTING OF LABORATORY & ASSOCIATED SERVICES
BIDDING DOCUMENT NO.: SS/B895-999-EP-T-9802/1016
NAME OF BIDDER: [REDACTED]

FORM-SP-8B

DETAILS OF GOODS AND SERVICES TAX (GST) ON POST WARRANTY COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT(PWCAMC)
[FORM SP-8B]

SL. NO.	DESCRIPTION	Total Ceiling Amount on which GST is applicable	Percentage (%) Rate of GST Applicable on (A)
		(A)	(B)
1	GST on PWCAMC Service for Laboratory Instruments	As quoted in Form SP-7	18%
2	GST on PWCAMC Services for Electric Traction Lift	As quoted in Form SP-7	18%

NOTE :

- 2) The GST shall be payable to the Contractor only upon submission of GST invoice in accordance with GST Act.
- 3) Bidder shall submit this format alongwith his unpriced bid. Bidder shall not indicate any prices in any column.
- 4) GST shall be reimbursed in Indian rupees only as per the provisions of GST Act/Rules.



POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)- KOCHI REFINERY
M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)
SETTING OF LABORATORY & ASSOCIATED SERVICES
SS/B895-999-EP-T-9802/1016

FORM-SP-8C

SL. NO.	DESCRIPTION	in terms of % of "Total Lumpsum Price" quoted in FORM SP-0 (where ITC is not available to BPCL)
	(A)	(B)
1	Portion of LS Price against which Input Tax Credit against GST is not available as per 17(5) of CGST Act.	PERCENTAGE of SP-0 Price

NOTE :

1	Under column (B), Bidder to furnish the Non-creditable portion in % of Lump-sum Price quoted in FORM SP-0, on which GST is applicable but the input tax credit (ITC) of GST is not available to BPCL as per 17(5) of CGST Act.
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PROJECT: POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)- KOCHI REFINERY

NAME OF WORKS/ITEM: SETTING OF LABORATORY & ASSOCIATED SERVICES

BIDDING DOCUMENT NO.: SS/B895-999-EP-T-9802/1016

BIDDER NAME:



DETAILS OF CIF VALUE, CUSTOMS DUTY AND CUSTOMS RELATED DUTIES ON IMPORTED GOODS WHERE GOODS ARE CLEARED BY FILING INTO BILL OF ENTRY IN NAME OF OWNER (FOR IMPORTS FORM-SP-9A)

ITEM	ITEM DESCRIPTION	CFR VALUE OF IMPORTED GOODS INCLUDED IN LUMP SUM PRICE FOR SUPPLY AS PER FORM SP-0 (Refer Notes below)	Basic Custom Duty (BCD) based on Import (Extra on the Lumpsum Supply Price) (Refer Notes below)	Other Customs Related duties (Extra on the Lumpsum Supply Price) (Other than IGST, Social Welfare Surcharge) (Refer Notes below)	Social Welfare Surcharge (SWS) (Extra on the Lumpsum Supply Price) (Refer Notes below)	IGST applicable on Imported Goods (Extra on the Lumpsum Supply Price) (Refer Notes below)	GST cess, if applicable on Imported Goods (Extra on the Lumpsum Supply Price) (Refer Notes below)	DELETED	Custom Tariff Considered (Bidder to indicate) (Refer Notes below)	Country of origin (Bidder to indicate) (Refer Notes below)
		Amount (Currency Shall be in INR as per FORM-SP-0)	As Percentage of CIF value (derived based on CFR value quoted in Col.3 & Note:2) (%)	As Percentage of CIF value (derived based on CFR value quoted in Col.3 & Note:2) (%)	As Percentage (Rates Applicable on Total Basic Custom Duty) (%)	As Percentage (Rates applicable on CIF value,BCD, other custom duties, SWS) (%)	As Percentage (Rates applicable on CIF value,BCD, other custom duties, SWS) (%)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1										
2										
3										
4										
5										
6										
7										

NOTES :

- Bidder to indicate CFR value of Imported Goods where goods are cleared by filing into Bill of Entry in the name of Owner (for availing benefits under MOOWR scheme) . **The Currency of quote shall be INR only.**
- The CIF value shall be calculated in INR/ Equivalent INR considering CFR Value quoted in Col.3 plus Marine insurance charges. Marine Insurance charges shall be considered @ **1.0%** of the CFR value quoted by bidder in Col. 3
- The Customs Duty and other custom related duties, IGST on imported goods as indicated above shall extra and not to be included in the Lump-sum Prices quoted in Form-SP-0 as per the provisions of the Bidding Document.**
- Bidder to indicate rates of Basic Custom Duty (as % of CIF value), Other Customs Related duties, if applicable (as % of CIF value), Social Welfare Surcharge (SWS) (as % applicable on Custom Duties), IGST Rates & GST cess (if applicable) as Percentage under Column 4, 5, 6, 7, & 8 respectively. Bidder to indicate IGST Rates as Percentage applicable on Imported Goods in line with provisions of bidding document. Bidder shall also indicate Custom Tariff Code & Country of origin under Col. 10 & 11 respectively.
- Bidder to submit Un-priced Copy of "Form-SP-9A" blanking out values under Col.(3) of this form, however indicating rates/ details under 4 to 11 (i.e as percentage/tariff code etc) along-with Un-priced Offer.**



PROJECT: POLYPROPYLENE PROJECT OF M/S BHARAT PETROLEUM CORPORATION LIMITED (BPCL)- KOCHI REFINERY

NAME OF WORKS/ITEM: SETTING OF LABORATORY & ASSOCIATED SERVICES

BIDDING DOCUMENT NO.: SS/B895-999-EP-T-9802/1016

BIDDER NAME:



DETAILS OF CIF VALUE, CUSTOMS DUTY AND CUSTOMS RELATED DUTIES INCLUDED IN QUOTED SUPPLY PRICE FOR IMPORTED GOODS FOR WHICH CONTRACTOR BECOMES THE CONSIGNEE OF GOODS BY FILING BILL OF ENTRY FOR HOME CONSUMPTION FORM-SP-9B

ITEM	ITEM DESCRIPTION	CIF VALUE OF IMPORTED GOODS INCLUDED IN LUMP SUM PRICE (Refer Notes below)	Basic Custom Duty (BCD) based on Import (Included in the Lumpsum Supply Price) (Refer Notes below)	Other Customs Related duties (Included in the Lumpsum Supply Price) (Other than IGST, Social Welfare Surcharge) (Refer Notes below)	Social Welfare Surcharge (SWS) (Included in the Lumpsum Supply Price) (Refer Notes below)	IGST applicable on Imported Goods (Included in the Lumpsum Supply Price) (Refer Notes below)	GST cess, if applicable on Imported Goods (Included in the Lumpsum Supply Price) (Refer Notes below)	DELETED	Custom Tariff Considered (Bidder to indicate)	Country of origin (Bidder to indicate)
		Amount (In INR) (Refer Note 1 & 2 below)	As Percentage of CIF value (Col.3) (%)	As Percentage of CIF value (Col.3) (%)	As Percentage (Rates Applicable on Custom Duty) (%)	As Percentage (Rates applicable on CIF value, BCD, other custom duties, SWS) (%)	As Percentage (Rates applicable on CIF value, BCD, other custom duties, SWS) (%)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)
1										
2										
3										
4										
5										
6										
7										

- NOTES :**
- Bidder to indicate currency of quote of CIF value of Imported Goods [in Col. (3) of this form], where Contractors will become consignee of the goods by filling Bill of Entry for Home consumption included in their supply price in INR only.
 - Bidder to indicate rates of Basic Custom Duty (as % of CIF value) , Other Customs Related duties, if applicable (as % of CIF value), Social Welfare Surcharge (SWS) (as % applicable on Custom Duties) , IGST Rates & GST cess (if applicable) as Percentage under Column 4,5, 6 ,7 & 8 respectively. Bidder to indicate IGST Rates as Percentage applicable on Imported Goods in line with provisions of bidding document. Bidder shall also indicate Custom Tariff Code & Country of origin under Col. 10 & 11 respectively.
 - The Insurance for imported items procured by Contractor where Contractor becomes consignee of goods for Home Consumption shall be in Contractor's Scope.**
 - Bidder to submit Un-priced Copy of "Form-SP-9B" blanking out values under Col.(3) of this form , however indicating rates/ details under 5 to 11 (i.e as percentage/tariff code etc) along-with Un-priced Offer.
 - The CIF value quoted in this form shall be considered for capping purpose for variation in BCD, SWS etc as per Annexure-XXIV of SCC .

**ENQUIRY
DOCUMENT -
TENDER (Document
No :
B895-
TENDER_DOC-
B895-999-85-41-EP-
T-9802)**

**RESEARCH & DEVELOPMENT DOCUMENT INDEX
FOR SETTING UP LABORATORY AND ASSOCIATED SERVICES FOR PP PROJECT
BPCL KOCHI
(B895-999-85-41-EP-T-9802)**

<u>S.NO</u>	<u>Department Name</u>	<u>Section Number</u>	<u>Description</u>	<u>No. of pages</u>
1.	R&D	SECTION-A-1.2.1	TECHNICAL CONFIRMATION LIST	03
2.	R&D	SECTION-A-2.1	MANDATORY SPARE PARTS	02
3.	R&D	SECTION-A-3.2.1	DOCUMENTS FOR REVIEW	02
4.	R&D	SECTION-C-1.3.1	SCOPE OF WORK	14
5.	R&D	SECTION-C-4.1.01	INSTRUMENT LIST	43
6.	R&D	SECTION-C-4.1.02	ENGINEERING DETAILS	04
7.	R&D	SECTION-C-4.1.03	LIST OF CRM	08
8.	R&D	SECTION-C-4.1.04	LIST OF REAGENT & CHEMICALS	01
9.	R&D	SECTION-C-4.1.05	LIST OF GLASSWARE	02
10.	R&D	SECTION-C-4.1.06	LIST OF HOMOPOLYMERS	01
11.	R&D	SECTION-C-4.1.07	LIST OF MISCELLENEOUS ITEMS	04
12.	R&D	SECTION-C-4.1.08	LIST OF BOOKS	01
13.	R&D	SECTION-C-4.1.09	LIST OF STANDARDS	02
14.	R&D	SECTION-C-4.1.10	LIST OF REQUIRED UTILITIES	01
15.	R&D	SECTION-C-4.1.11.1	QUALIFICATION CRITERIA	01
16.	R&D	SECTION-C-4.1.11.2	MANUFACTURER AUTHORISATION FORM	02
17.	R&D	SECTION-C-4.1.11.3	PERFORMANCE TRACK RECORD	01
18.	R&D	SECTION-C-4.1.12.1	GENERAL LABORATORY SAFETY GUIDELINES	31
19.	R&D	SECTION-C-4.1.12.2	OSHA LABORATORY SAFETY GUIDELINES	53
20.	R&D	SECTION-C-4.1.12.3	GUIDELINES FOR PLACEMENT OF TOXIC GAS DETECTORS AND ITS CALIBRATION	10
21.	R&D	SECTION-C-4.1.12.4	HSE GUIDELINES FOR SELECTION AND USE OF FLAMMABLE GAS DETECTORS	17
22.	R&D	SECTION-C-4.1.12.5	GUIDELINES FOR LABORATORY VENTILLATION SYSTEM AND HOOD REQUIREMENTS	11
23.	R&D	SECTION-C-4.1.12.6	GUIDELINES FOR GAS MANAGEMENT SYSTEM	26
24.	R&D	SECTION-C-4.1.13	GUIDELINES FOR DISPOSAL OF LABORATORY WASTE	09

MANDATORY SPARE PARTS FOR SETTING OF LABORATORY AND ASSOCIATED SERVICES OF BPCL PP LABORATORY, KOCHI, KERLA

PROJECT : SETTING UP LABORATORY AND ASSOCIATED
SERVICES FOR BPCL PP LABORATORY, KOCHI
KERLA

OWNER : BHARAT PETROLEUM CORPORATION LIMITED
(BPCL) KOCHI, KERLA

PMC : ENGINEERS INDIA LTD. (EIL)

JOB No. : B895

Manufacturer has to provide the list of recommended Mandatory Spares along with all instruments as specified in Document (SECTION-C-4.1.01) Instrument list of BPCL-KOCHI Laboratory and will agree to provide the same with concerned instrument during supply.

Contractor will summarize the mandatory spares recommended by each selected manufacturer for covering the requirement of total instrument and submit the same for information to BPCL/EIL.

DOCUMENTS/ DRAWINGS FOR OWNER'S/ PMC'S REVIEW FOR SETTING OF LABORATORY AND ASSOCIATED SERVICES OF BPCL PP LABORATORY, KOCHI, KERLA

PROJECT : SETTING OF LABORATORY AND ASSOCIATED
SERVICES OF BPCL PP LABORATORY, KOCHI,
KERLA

OWNER : BHARAT PETROLEUM CORPORATION LIMITED
(BPCL) KOCHI, KERLA

PMC : ENGINEERS INDIA LTD. (EIL)

JOB No. : B895

1.0 DRAWING/DOCUMENTS REQUIRED FROM CONTRACTOR

1.1 WITH BID

Contractor shall furnish duly signed filled in technical confirmation list and deviation list if any, along with bid which will form the basis for technical evaluation of bid. In case no deviation list is furnished by the contractor along with bid, it will be presumed that the Contractor's offer is in total compliance with the technical requirements given in the bid package.

1.2 AFTER AWARD OF CONTRACT

- Contractor shall submit documents/drawings for review/ approval and for records as per the table given Below.
- Number of copies and other details for documents/drawings submission shall be as specified in the tender document.

S.No.	DESCRIPTION	WITH BID	POST ORDER		REMARKS
			FOR REVIEW	RECORD	
1.	Contractor has to consider the vendor qualification criteria and proven track record for those Laboratory instruments which have difference of opinion in deciding the make.		√		
2.	Manufacturer's authorization format for providing entire support services by own/ through Indian distributor.			√	
3.	Copy of purchase order of Laboratory instruments before order placement			√	
4.	Model of the finalized Laboratory instruments and its technical brochure before releasing the PO		√		
5.	List of all prerequisite needed for installation of the instrument <ul style="list-style-type: none"> ❖ Total power requirement ❖ No. of socket (5 amp & 16amp) ❖ Power (Single/three phase) ❖ Type of required utility (Air, Water, Steam) ❖ Safety requirement ❖ LAN requirement ❖ Heat dissipation data 			√	
6.	Quality Assurance Plan (QAP) for each instrument			√	
7.	Inspection Release Note (IRN) for all the instruments			√	
8.	Certificate of Factory tested method guarantee and its related technical data			√	
9.	Certificate of CRM & Calibration blend			√	
10.	Manufacturer's report on pre installation facility			√	
11.	Safety audit report of entire laboratory			√	
12.	Manufacturer's installation report			√	
13.	Details of analytical data obtained during Site acceptance			√	
14.	Report of site acceptance		√		

SCOPE OF WORK FOR SETTING UP LABORATORY & ASSOCIATED SERVICES OF PP PLANT- BPCL KOCHI

**PROJECT : SETTING UP LABORATORY &
ASSOCIATED SERVICES FOR
PP PLANT-BPCL KOCHI**

CLIENT : BPCL KOCHI

EIL : ENGINEERS INDIA LTD

JOB No. : B895

1. INTRODUCTION:

Bharat Petroleum Corporation Ltd. (BPCL KOCHI) - Kochi Refinery, located at Ambalamugal, Kochi, Kerala, India (hereinafter referred to as "BPCL KOCHI-KR"), plans to set up Polypropylene unit based on Polymer grade Propylene feedstock. BPCL KOCHI-KR intends to set up world scale facilities for production of Polypropylene and its associated facilities for production of various grades of Homo Polypropylene, based on 400 KTPA of Polymer grade Propylene. The facilities are proposed to be located within Refinery and on the newly acquired land adjacent to the existing refinery. It is envisaged to fully integrate the new facilities with the refinery. The process unit envisaged to be installed in this Polypropylene Project is Polypropylene (PP) unit.

It is proposed to install a new Polypropylene (PP) Unit. The new facilities are proposed to be located within Kochi Refinery and on the newly acquired land adjacent to the existing refinery. It is envisaged to fully integrate the new facilities with the existing Refinery. Simultaneously, Laboratory for Polypropylene (PP) unit is envisaged adjacent to the existing refinery QC Laboratory.

The Laboratory facility of the Project broadly divided into following parts and details of the same are as given below for reference:

1.1. PP LABORATORY OF BPCL KOCHI:

PP Laboratory of BPCL KOCHI shall be made in three storied building of plot size 30 m x 18 m, adjacent to the existing refinery QC Laboratory inside the Plant battery limit of the complex. This laboratory further divided into various sections and details of each section are given below for the reference.

1.1.1 PP LABORATORY OF BPCL KOCHI GROUND FLOOR:

➤ **GAS CHROMATOGRAPHY SECTION:**

This section will accommodate all Gas Chromatographs, Sulphur Analyzer, Hydrogen & Zero Air Generator etc. needed for hydrocarbon related sample analysis.

➤ **SPECTROSCOPY CUM XRF SECTION**

This section will accommodate FTIR & WDXRF needed for PP polymer analysis.

➤ **POLYMER PROCESSING SECTION:**

This section will accommodate Polymer processing equipment needed for processing of different grades of Polypropylene (PP). This section of the laboratory will accommodate various instruments like Cast Film Extruder, Filterability Extruder, Injection Molding, Automatic sample press etc. as per requirement.

➤ **SAMPLE RECEIPT:**

This section of the Laboratory will be utilized for receiving samples from various units of the complex.

➤ **BOTTLE WASHING SECTION:**

Bottle washing Section has been earmarked in the Laboratory layout separately for catering washing requirement of glassware at Ground Floor respectively.

➤ **GAS BANK & CRM STORAGE SHED:**

Gas Bank & CRM Storage Shed has been earmarked in the Laboratory layout separately for storage of Utility Gas cylinders & CRM Gas cylinders at Ground Floor respectively.

➤ **CHILLER SHED:**

Chiller shed has been earmarked in the Laboratory layout separately for storage of chillers required for WDXRF & Polymer Processing Lab equipment at Ground Floor respectively.

1.1.2 PP LABORATORY OF BPCL KOCHI FIRST FLOOR:

➤ **POLYMER TESTING SECTION:**

This section of the Laboratory will accommodate all the instruments pertaining to process control like MFI, Bulk Density, Automatic Particle size analyzer, IR based moisture analyzer, Sieve shaker etc.

➤ **MECHANICAL TESTING SECTION:**

This section of the Laboratory will accommodate all the instruments pertaining to product testing like Tensile Tester, Flexural Tester, Izod Impact Tester, HDT, Hardness, Gardner Impact Tester etc.

➤ **XYLENE SOLUBILITY TESTING SECTION:**

This section of the Laboratory will accommodate instruments/ Glassware, Benchtop NMR system set up for determination of Xylene solubility.

➤ **CHEMICAL STORAGE ROOM:**

Section for Chemical storage will accommodate entire chemicals pertaining to testing.

➤ **SAMPLE RETENTION ROOM:**

This section of the Laboratory will be utilized for sample retention of finished products.

➤ **GLASSWARE & MISCELLANEOUS ITEMS STORAGE ROOM:**

This section of the Laboratory will be utilized for storage of glassware & miscellaneous items considering requirement of work.

➤ **OFFICE SECTION:**

This section of the Laboratory is kept for official work with seating arrangement.

1.1.3 PP LABORATORY OF BPCL KOCHI SECOND FLOOR:

This section of the Laboratory consists of UPS Room with Loading Unloading Steel Platform, Battery Room, Document Room, Server Room, Electrical & AC Plant.

COMMON LABORATORY FACILITIES AND UTILITIES:

Common laboratory facilities and Utilities for all the section of the lab such as Glassware store, Chemical store, Air Handling Unit (AHU), HVAC, Electrical Room, Server Room & their associated control, Shed for Gas Bank & CRM Storage, Shed for Chiller with associated control, control of safety devices, Audio System and Telephone etc. are required and the same shall be provided by Lab contractor as per details specified in the Lab layout. All the sheds will be designed by Lab contractor & constructed by Lab contractor considering distribution of required utility gases, adequate ventilation & associated safety in mind.

OFFICE ACCOMMODATION:

Office accommodation and associated facilities such as Cabins/ rooms, Office halls, work station, Document Room etc. as per the normal standard practices.

2.0 BROAD SCOPE OF WORK FOR ESTABLISHMENT OF BPCL KOCHI LABORATORY

Types of activities to be considered for establishing the BPCL KOCHI Laboratory are given below for the reference of the Lab contractor.

- Statutory approval for Laboratory construction and Lab related activities
- Review & Finalization of Preliminary Architectural Layout
- Design & Construction of Laboratory Building including Gas station for storage of utility gases & CRM cylinder shed, chiller shed and its auxiliary sections
- Detail Engineering of entire lab facilities needed for development of internal laboratory infrastructure
- During procurement including inspection, installation, commissioning, testing and final acceptance as per detail specified in scope matrix and elsewhere in the bid document.
- Procurement and supply of laboratory instrument & its associated accessories, chemicals, glassware, CRM / Calibration blend, miscellaneous items, laboratory furniture's, books & standards, stationary items, items pertaining to safety system (smoke detectors, PPE, safety surveillance system, gas station / gas bank) including supply of gas cylinders with high purity gases & associated fittings, cylinder storage shed, safety signage including emergency escape, safety shower & eye wash station, items needed for installation of heavier equipment etc. based on the input information obtained from detail engineering and list specified in the tender document as per details specified in scope matrix elsewhere in the bid document.

- Third party inspection (TPI) for laboratory instruments & items associated for development of laboratory internal infrastructure as per detail specified in scope matrix elsewhere in the bid document.
- Installation, commissioning, testing and site acceptance for instrument and associated facilities as per detail specified in scope matrix elsewhere in the bid document.
- Training of manpower
- Warranty / Defect liability period
- Development of standard operating procedure (SOP) for instruments and associated methods including safety manual as per detail specified in scope matrix elsewhere in the bid document.
- Lab contractor has to establish connectivity of LAN system in lab with existing LIMS server including LAN switch, sockets, lab server hardware & software. Lab contractor shall provide 5 desktops, 5 printers.
- Statutory Clearances as applicable for Establishment Integrated Laboratory of PP QC Lab BPCL KOCHI
- Calibration of instruments as per detail specified in scope matrix elsewhere in the bid document.
- For laboratory instruments, standard warranty of 18 months from date of supply or 12 months from date of commission whichever comes earlier need to be consider & post warranty, quote for comprehensive AMC for 5 years to be considered.
- During warranty all consumables and critical spares to be considered under the scope.
- Any support required for filing an application for NABL accreditation

The point wise details of each activity are given below:

2.1 STATUTORY APPROVAL FOR LABORATORY CONSTRUCTION AND LAB RELATED ACTIVITIES

The Lab contractor shall follow standards and codes to fulfill statutory requirements for getting statutory approval from various statutory bodies as applicable for Laboratory construction and Lab related activities. Lab contractor shall refer the necessary inputs of concerned specialized department available in the Bid document and elsewhere in the Bid document for Laboratory construction and associated activities.

2.2 DESIGN & CONSTRUCTION OF LABORATORY BUILDING INCLUDING GAS STATION FOR STORAGE OF UTILITY GASES, CRM, CHILLER SHED AND ITS AUXILIARY SECTIONS

The entire works shall be designed to accommodate within the plot area marked in the schematic plot plan and finalized lab drawing satisfying the requirement of design basis, three-dimensional detail engineering of lab and it's all auxiliary sections, animation drawing of total lab including auxiliary section, technical specifications, job specifications, latest safety regulations for lab, construction, electrical etc. Lab contractor shall be working in close coordination with associated departments such as General civil, Structural & Architect, Packaged equipment, Electrical, Piping, Instrumentation, Inspection, ITS (Data communication), Safety etc. for various interface activities during execution of work at site.

- Air conditioning work as specified elsewhere in the bidding document.
- All electrical work including lighting & fan, P.A system, Fire alarm & Smoke detector and connectivity with UPS & Battery as specified separately in the bidding document.
- Lab contractor has to make the provision for supply of UPS & Battery to fulfill the emergency power requirement of entire laboratory as per detail given in electrical sub section of Bid document.
- All safety related items comprising fire alarms, smoke detector, detector for gases, like Hydrocarbon, Hydrogen, Oxygen, H₂S etc. location of fume hood & local/spot extractor, safety requirements like Fire extinguisher, safety shower, eye wash, etc. as per detail scope of work as specified in the bidding document.
- Lab contractor has to establish connectivity of LAN system in LAB with existing LIMS server including LAN switch, Sockets, LAB Server Hardware & software
- Lab contractor shall provide 5 desktops, 5 printers
- Furniture for all Laboratory Buildings including office & Laboratory rooms etc. as specified in the bidding document.
- Water supply distribution and Sanitary Sewerage as specified in the bid document.
- Utility distribution lines for Air (Plant air, instrument air, Nitrogen), Water (Service water, drinking water) from the battery limit to the respective tapping points are to be provided as per information given in detail engineering drawing
- Utility lines for carrier gases (Helium, Hydrogen, Zero Air, Nitrogen & Argon, P-10) from Gas station to respective tapping point are to be provided as per detail engineering drawing in the lab considering all standard safety features

The successful bidder after award of the job, through the selected team of architect shall develop architectural drawings including perspective 3D-Modeling, Animation keeping in view that entire area furnished with dust free atmosphere and submit each of them to EIL/BPCL KOCHI for review and approval before proceeding with further detail engineering of other disciplines.

The detail engineering drawings of the lab shall include the details of instrument location, electrical requirement of instrument (Power & Socket Details), piping details including internal piping distribution in the lab for Instrument air, Plant air, Carrier gases (Helium, Nitrogen, Argon, Zero Air, Hydrogen, Oxygen, P-10 etc.), interconnectivity for

UPS & Battery, LAN, various detector like Smoke, Hydrocarbon, Hydrogen, Oxygen, H₂S, location of Fume hood & local extractor, lighting system, Safety requirements like fire extinguisher, safety shower, eye wash, audio system, safety surveillance system with auto sensing facility of main door closing etc. for the purpose of ease in lab operation and overall suitability and get final approval of EIL/BPCL KOCHI. Approval of EIL/BPCL KOCHI will be essential for any change incorporated by Lab contractor after justifying its suitability.

The Lab contractor has to strictly follow the detail engineering of the lab drawing and all latest approved standards for constructing the lab. The three-dimensional detail engineering of the lab shall also include the design of Gas & CRM cylinder storage shed & chiller shed area located on the outside of the lab building and all latest applicable standards are also to be followed for their construction.

Adequate Standard/Safety regulations are to be followed during execution of the work.

The utilities generated in the plant shall be made available free of cost at the building battery limit.

Battery limit:

The battery limit of each utility will be specified separately by the concerned discipline in their input as enclosed in the bid document.

The gas station storage shed should be constructed very close to Gas Chromatographic lab to minimize the pressure drop.

The construction of Gas cylinder & CRM storage shed, chiller shed located outside the lab building are also to be taken care as per approved detail engineering drawing. Gas cylinder & CRM storage shed and their inter connection of various gases from gas station to tapping point as per the drawing developed by Lab contractor and implemented the same after its approval by EIL/BPCL KOCHI. Three-dimensional detail engineering of lab and its related auxiliary section (Gas cylinder & CRM storage shed, chiller shed) and animation drawing of the total lab are to be submitted by the Lab contractor along with internal layout of the lab.

The changes in design and drawings of the buildings made during review shall be implemented after approval of EIL/BPCL KOCHI without any additional time and cost implication.

Lab contractor shall obtain required statutory approvals and submit all as built drawings and documentation to EIL/BPCL KOCHI.

Lab contractor shall perform additional work arising out of pre-commissioning/ commissioning/ trial run punch list issued by licensors or BPCL KOCHI's commissioning/ operation group without any additional time and cost to BPCL KOCHI including cost of all materials, labor, consumables etc.

The detailed scope of work for various disciplines is given in subsequent sections/ subsections of the bidding document.

2.3 PROCUREMENT AND SUPPLY OF LABORATORY FURNITURE / FURNISHING / FIXTURES/ FIT OUTS

Laboratory Lab contractor has to provide furniture suitable to keep entire lab instruments and office furniture for BPCL KOCHI officials. Lab contractor has also to consider the suitable number of working benches, Reagent shelve, Fume hood, Peg Board etc. for entire laboratory work depending upon the finalization of the lay out of the laboratory.

The list of laboratory furniture/furnishing/ fixture/fit outs is given but is subject to approval of **BPCL KOCHI/EIL** based on detailed layout of the laboratory as developed by the Lab contractor following latest Regulations / Standards with respect to placement / layout of lab equipment /Furniture and entire utility distribution of the laboratory for the purpose of overall suitability & implementation.

The laboratory furniture and fixture should be as per **BPCL KOCHI/EIL** recommendations. A latest International/National standard shall be followed during their procurement. The procurement of Furniture will be made from vendors approved by **BPCL KOCHI/EIL**.

The table top should be chemically resistant and it should be as per international standard and safety norms while chairs should be comfortable in nature and have the proper back support conforming to ergonomics applicable.

The furniture to be installed in the laboratory shall include the following pieces:

- Benches suitable for chemical applications
- Fume hoods complete should have the following features:
 - a. Size : Minimum 6 feet
 - b. Storage cabinet : Minimum two
(One for storage of Acid/Solvent & other for general application)
 - c. Internal finish : Should chemical resistant.
 - d. Utility line & its control : Precise
 - e. Motor : 3-Phase
 - f. Certification : Required as per latest safety norms.
- Ventilated cabinets for reagent, chemicals etc. as per latest regulation/Standard.
- Ventilated cabinet for gas bottles, inside the room as per latest regulation/Standard.
- Cabinets for glassware, books and general requirement.
- Anti-vibrating table with chair for balance
- Sink with hot/cold water having provision for safety Eye shower with adequate waste disposal system for Solvent, Acid /Alkali and Solids.
- Desk complete with chair for PC
- Shelves for storage.

Other furniture details are specified in (Scope of supply /works-Architecture) of bid document.

2.4 PROCUREMENT AND SUPPLY OF THE LABORATORY INSTRUMENTS WITH DETAILED REVIEW OF MAKE & MODEL, SCOPE & SPECIFICATION ETC.

Lab contractor shall procure Laboratory equipment's as per detail given in SECTION-C-4.1.01 for PP of Laboratory to fulfill the analysis requirement of PP unit.

- Lab contractor has to ensure that manufacturer must supply latest model of their instrument and latest version of software conforming Licensor's requirement wherever available with respect to latest version of referred application (ASTM/BIS/IP/Licensor method).
- Lab contractor has to ensure from respective manufacturer that supplied system and system software are latest confirming latest version of ASTM/ISO/IP/Licensor method and supplied system self-sufficient to perform the specified activity. The Lab contractor has to take undertaking from respective manufacturer to fulfill any items found short over and above as specified in technical data sheet to perform specified activity without any cost to BPCL KOCHI.

2.5 PROCUREMENT & SUPPLY OF SAFETY SYSTEM

Laboratory Lab contractor has to procure, supply and installed the following safety systems as per latest Safety / Environmental Regulations / Standards and Licensor's recommendations:

- Emergency alarm
- Safety Shower & Eye wash system.
- Fire extinguisher like CO₂ and Dry chemical etc.
- Detector for various gases like (Hydrocarbon, Oxygen, Hydrogen and H₂S etc.)
- Smoke detectors and fire alarm system and their interconnection for repeat signals at fire control room.
- Public Announcement (PA) systems

2.6 GAS CYLINDER & CRM CYLINDER STORAGE SHED & CHILLER SHED

A shed for gas cylinder & CRM storage shed having adequate ventilation and gas cylinder & CRM storage shed is to be built up at outside of the lab building to supply the pure gases (utility gases) to various section of the laboratory.

A chiller shed for keeping the chillers of relevant Lab equipment's is to be built up at outside of the lab building and suitably connected to the instruments by the Lab contractor.

The arrangements of storing gas cylinders, CRM cylinders & chillers are to be made as per latest regulations/Standards considering all safety norms.

The architectural drawing of gas cylinder & CRM storage shed for storing sufficient numbers of Gas & CRM cylinders and space for having inventory and empty cylinders of different types to be submitted by Lab contractor for approval of **EIL/BPCL KOCHI** and the same shall be constructed by Lab contractor after due approval. The cylinder storage shed is to be made as per latest Regulations/Standard considering safety norms and gas handling rules.

Utility lines for carrier gases from Gas station to respective tapping point are to be provided as per detail engineering drawing in the lab considering all standard safety features.

Gas & CRM cylinder kept in Gas & CRM cylinder storage room should be equipped with movable trolley and properly chained. The cylinder must be stored considering latest applicable safety norms.

2.7 THIRD PARTY INSPECTION (TPI) FOR INSTRUMENT

The Lab contractor has to arrange inspection of lab instruments and associated factory tested method guarantee through respective manufacturer using following methodology:

- **ANALYSER VALIDATION:**

- The quality of the Instrument shall be inspected and checked as per approved Quality Assurance Plan (QAP). The approval of the QAP shall be made by the Third-party inspector (TPI).
- The Lab contractor has to submit the approved copy of QAP & certificate issued by TPI against the approved QAP to concerned specialist of EIL/BPCL KOCHI for acceptance & copy of the same to EIL for information.
- The final copy of the Inspection Release Note (IRN) shall be issued by Third party inspector based on the approved QAP & Certificate issued against the same and forward the final inspection report of the same to Lab contractor & EIL before shipment of the instrument at site individually and separately.

- **METHOD VALIDATION:**

- Validation of recommended test method is to be carried out by manufacturer at his facility for getting method guarantee of specified test method. One copy of each document generated during method validation is to be submitted to TPI for approval.
- The manufacturer has to submit the approved copy of validation report (Method Guarantee) through Lab contractor to concerned specialist of EIL/BPCL KOCHI before shipment of the material to site.
- The accuracy and precision of the instrument should be in the same order of magnitude as specified in the test method.
- The final acceptance of the method guarantee shall be made by Lab contractor by repeating the same method in line with specified method details at site for acceptance and the same shall be executed by Manufacturer/Authorized distributor

and witnessed by Lab contractor & EIL/BPCL KOCHI and forward the copy of site acceptance to EIL-R&D for information.

- Lab contractor has to furnish the following documents regarding final inspection of lab items:
 - ❖ Approved copy of QAP
 - ❖ Certificate issued against approved QAP
 - ❖ Certificate for Factory tested Method guarantee with complete analytical & calibration details to concerned specialist of EIL/BPCL KOCHI for each instrument before dispatch
 - ❖ Inspection Release Note (IRN)
- Lab contractor has to ensure the fulfilment of requirement of complete document as specified above, which shall be fully complied with the technical requirement of Lab equipment.
- The EIL/BPCL KOCHI has right to inspect any of the equipment either himself or by his Authorized agent on random basis and Lab contractor has to arrange the same through Manufacturer.

• INSPECTION OF CARTONS AND CHECKING OF DELIVERED ITEMS WITH PACKING LIST

- Lab contractor has to arrange following activities pertaining to visual inspection of Cartons and checking of delivered items with packing list. The Lab contractor has to execute the visual inspection of cartons by performing the given below activity:
 - ❖ Photograph of Cartons & associated packing for estimating safe condition of delivery
 - ❖ Checking of delivered items with packing list for short shipment if any
 - ❖ Checking the supply of CRM, Test certificate & associated expiry for information pertaining to further ordering
- Lab contractor has to submit the status report to EIL/BPCL KOCHI for further action if any

2.8 INSTALLATION & COMMISSIONING AND ACCEPTANCE FOR INSTRUMENT AND ASSOCIATED FACILITIES

- Lab contractor has to arrange the Installation & Commissioning activities pertaining to development of Laboratory infrastructure and submit the approved copy of site acceptance after witnessing the same with concerned representative of EIL/BPCL KOCHI & Lab contractor at site and forward the copy of the same to EIL for information.
 - ❖ Performance test report for all applicable associated facility including Fume hood, Spot Extractor, Toxic gas detection, Fire & Smoke detection, Sprinkler system etc.
 - ❖ Leak test under pressure for all applicable associated facility
 - ❖ Safety audit report & associated resolution sheet if any
- Lab contractor has to arrange the Installation & Commissioning activities pertaining to Laboratory Instrument as per detail specified in Instrument list (SECTION-C-4.1.01) through Manufacturer/their Authorized distributor at site.

- The Lab contractor has to submit the approved copy of site acceptance report for above specified activities after witnessing the same with concerned representative of EIL/BPCL KOCHI & Lab contractor at site and forward the copy of the same to EIL for information.
- The final acceptance of the method guarantee pertaining to instrument shall be made by Lab contractor by repeating the same method in line with specified method details at site for acceptance and the same shall be executed by Manufacturer/ Authorized distributor and witnessed by Lab contractor & concerned specialist of EIL/BPCL KOCHI and forward the copy of the same to EIL for information.
- Lab contractor has to ensure that Vendor's representative perform complete Installation & Commissioning activities of all the instruments to the satisfaction of EIL/BPCL KOCHI. Utmost care has to be taken by the Lab contractor during Installation & Commissioning of instrument.
- The technical input generated during commissioning of the instruments should be submitted to EIL/BPCL KOCHI as input document for taking approval.

Lab contractor shall arrange the services of respective Supplier for each instrument for minimum 5 days for the familiarization of instrument and submit the copy of standard operating test procedure (SOP) to EIL/BPCL KOCHI for their information & further necessary action.

2.9 TRAINING OF MANPOWER FOR OPERATION

Lab contractor has to organize two types of training programme through the respective Manufacturer/Authorized distributor at site:

- Training pertaining to familiarization of facility associated with internal infrastructure of each discipline of EIL/BPCL KOCHI & Lab contractor at site for a period of minimum three (3) days prior to installation of Laboratory instruments without any additional cost to EIL/BPCL KOCHI.
- Training requirement of associated persons will be identified by EIL/BPCL KOCHI on mutual basis. The training helps to facilitate the trainee to understand the operation of associated facilities & shortcoming if any and trainee has to submit the feedback to EIL/BPCL KOCHI on individual basis.
- Training pertaining to familiarization of laboratory instruments to Lab operating staff of BPCL KOCHI by Lab contractor at site for the period of five (5) days without any additional cost to EIL/BPCL KOCHI. Training requirement of Lab operating staff will be identified by EIL/BPCL KOCHI on mutual basis. The training helps to facilitate the trainee to understand the operation of instruments & associated shortcoming if any and trainee has to submit the feedback to EIL/BPCL KOCHI on individual basis.

3.0 LABORATORY ESTABLISHMENT UP TO COMMERCIAL OPERATION

The Lab contractor shall responsible & provide support EIL/BPCL KOCHI for establishment of the entire lab and associated activities up to commercial operation including Pre-commissioning/Commissioning, Performance Guarantee Test Runs (PGTRs) and regular Start-up & Operation of Units/Facilities. The Lab contractor will perform the tests as per detail specified in Analytical Manual & Analytical schedule. All requisite manpower and material like CRM/Calibration blend, Carrier gas, Chemicals, Glassware and Miscellaneous items etc. shall be in the scope of Lab contractor required during execution.

Salient features of laboratory establishment are given below for the reference of the Lab contractor:

- Lab contractor has to arrange all sorts of calibration activity for up keeping the good health of instrument.
- Lab contractor has to enter the analysis data/records in LIMS of EIL/BPCL KOCHI as instructed by Engineer in charge of work.
- Lab contractor will provide all requisite sampling aid like sampling bottles, sampling bombs (SS cylinders), Bladders, Containers for retention of sample, etc. as per detail specified in Instrument list (SECTION-C-4.1.01) & List of Miscellaneous items (SECTION-C-4.1.07) considering requirement of work as per direction of BPCL KOCHI during execution of work.
- Lab contractor has to procure all the Certified reference material (CRM)/ Calibration blend (SECTION-C-4.1.03) and pure gases required as utilities (SECTION-C-4.1.10), Laboratory Chemicals (SECTION-C-4.1.04), Glassware's (SECTION-C-4.1.05), Miscellaneous items (SECTION-C-4.1.07) and List of Homopolymers (SECTION-C-4.1.06) during execution of work. The quantity should be sufficient for execution of Laboratory Establishment considering as per the details in above specified sections.
- Lab contractor has to procure and supply the books and standards in accordance with list as detailed out in (SECTION-C-4.1.08) & (SECTION-C-4.1.09) respectively. All the books and standards should be supplied of latest edition. The standards should be supplied in both forms (Hard and Soft) with necessary updates.
- Lab contractor is to refer the latest Chemical safety manual like MSDS for deciding safety and disposal issues of the lab.
- The storage of chemicals including solvents and their disposal will be made as per directive of Engineer in Charge considering the statutory regulation of the Central / State pollution control board.
- Lab contractor has to make necessary arrangement pertaining to storage of sample for retention purpose adopting standard storage methodology.
- Lab contractor shall develop a detail scheme and drawing for disposal of Laboratory waste inside/outside the lab building as per latest Regulations/Standards considering Environmental Regulations and Safety norms.
- Lab contractor has to submit the scheme pertaining to house-keeping of Laboratory in totality from inside & outside as per requirement of work and maintain the total area neat & clean, dust free & implement the same as per direction of the Engineer In charge during execution of work.
- Lab contractor shall ensure supply of all spares, consumables, accessories, tools and tackles including supply of calibration blend, sampling arrangement, gas purifier etc. for smooth operation of Lab up to commercial operation.
- If any new test is recommended by statutory authorities or incorporated because of method amendment, the same shall be incorporated by Lab contractor in consensus with EIL/BPCL KOCHI representative mutually.
- Any failure on account of taking statutory and other approval as applicable will be taken seriously and price reduction schedule will be imposed to Lab contractor as per terms & condition specified in commercial section of bid document.
- Lab contractor has to make provision for supply of items like Thermometer, Test tubes, Litmus Paper, universal indicator, Dragger tube etc. to fulfil the requirement

of Petrochemical for field testing/quality checks /miscellaneous application during execution of work.

4.0 DEVELOPMENT OF STANDARD OPERATING PROCEDURE (SOP)

Lab contractor has to arrange and compile both type of SOP (Instruments operation and Analytical methods) and the details of the same are given below:

- Lab contractor has to arrange and compile the standard operating procedure (SOP) of each instrument through the representative of respective Manufacturer/Authorized distributor as per format decided by Engineering In-charge and submit the same to EIL/BPCL KOCHI for approval & copy of the same to EIL for information.
- Lab contractor has to arrange and compile standard operating procedure (SOP) of each Analytical method for sample analysis through the concerned Lab operating staff as per format decided by Engineering In-charge and submit the same to EIL/BPCL KOCHI for approval & copy of the same to EIL for information.

5.0 SPECIAL INSTRUCTIONS TO THE LAB CONTRACTOR:

The Lab contractor is liable to be penalized for the following cases:

- Supply/Use of expired CRM (Certified reference material) and Standards will be taken up seriously and the Lab contractor will be liable for minimum penalty of Rs. 20000/-per use of expired CRM.
- Lab contractor/their personnel/ their sub-contractor and other associated personnel shall maintain the secrecy and will not pass any information, record, data to whom so ever without prior consent of BPCL KOCHI.
- **Lab contractor/their personnel/ their sub-contractor and other associated personnel shall maintain the secrecy and will not pass any information, record, data or any part thereof to whom so ever without prior consent of Licensor as Licensor data are under intellectual protocol. Lab contractor shall enter into a confidentiality agreement with the Licensor by signing Non-Disclosure Agreement (NDA) for obtaining the Licensor Documents pertaining to Analytical Schedule & Manual if required for specific requirements by successful Bidder only.**
- After completion of contract, Lab contractor will hand over the entire Instrument & associated facilities in the running condition to the satisfaction of the BPCL KOCHI.
- After completion of contract, all installation in the lab will be BPCL KOCHI's property. Left over quantity of spares, consumables, tools & tackles, Chemicals, Glassware's, Miscellaneous items, Additives, certified reference material (CRM), Calibration Blend including pure Gases, Carrier gases etc. will also be BPCL KOCHI's property.
- Lab contractor shall provide all accessories required for charging of sample to the instrument.
- Lab Contractor shall provide any support required for filling an application for NABL accreditation and refer OISD-GDN-211 guideline during execution of work.
- Lab contractor shall provide any items found short over and above required for execution of work.

S. N o.	Instrument/ Item Name	Brief Technical Specification / Description	Quantity		Parameter	Method Ref.	Functional Requirements	Suggested vendor as per the Licensor Document	Remarks
			In st	P C					
1	Analytical Balance including all accessories	Analytical Balance of following capacity including test weight & test certificate having traceability to National / International standard : Dual Range: 0-120 g (± 0.01 mg), 0-220 g (± 0.1 mg)	2			PPG: 400, 401, 415, 423, 424, 428, 429, 432, 801	-	Sartorius SECURA2 25D-1S Fisher Scientific Cat. # 14-560-018	Supporting Instrument
2	Precision Balance including all accessories	Top Loading Balance of following capacity including test weight & test certificate having traceability to National / International standard : Capacity: 3200 g Precision: ± 0.01 g	4			PPG: 200, 201, 204, 404, 410, 413, 502	-	Sartorius BCE32021-1S Fisher Scientific Cat. # 14-558-793	Supporting Instrument
3	Analytical Balance including all accessories	Analytical Balance of following capacity including test weight & test certificate having traceability to National / International standard Dual range: 0 - 61 g (± 0.1 mg) and 0 - 210 g (± 1 mg). Side loading.	2			PPG: 400,401, 428,429, 432 605		Mettler Toledo AG-204	Supporting Instrument
4	Bulk density Apparatus including all essential accessories & CRM with test	Funnel Diameter: 25.4 mm Capacity: 400 cm ³	1		Apparent Bulk density of Polypropylene	PPG 413 ASTM D1895 Method B for Course Granular	Apparent Bulk density of Pelletized or Granular Polypropylene Resin	Ray-Ran Apparent Bulk Density Apparatus Industrial Physics	

	certificate having traceability to NIST				Materials PPG 413		Model RR-BDA	
5	Cast Film Extruder with Chill rolls, Winding unit , Gel counter with facility of Twin Direction Orientation (TDO) For BOPP type film with all associated accessories & PC system	Cast Film Extruder Screw & Barrel: Screw Diameter: 25–38 mm Design: Single Flight, Standard Square Pitch L/D Ratio: Minimum 30:1 Feed Zone: 10D Compression Zone: 10D Metering Zone: 10D Compression Ratio: Max 3.5:1 (acceptable up to 4:1) Material Compatibility: Optimized for Polypropylene (PP) Extruder Barrel: Barrel Diameter: Matches screw diameter (25–38 mm) Heating Zones: Minimum 6 independently controlled zones Operating Temperature: Up to 280°C Safety: Rupture Disk (Safety Port) installed at barrel end Safety Plug rated for 65 MPa @ 150°C Breaker Plate / Screen Changer: Screen Holder: Compatible with 40 mm diameter screens Breaker Plates: At least two low delta-P plates for general purpose use Screen Mesh Sizes: 40 mesh 60 mesh 100 mesh Die Assembly: Die Type: 150 mm (6 inch) Ribbon Die Heating Zone: Required for die body Tools & Accessories: Brass Scrapers Brass	1	1	Gel in Cast film sample	PPG: 501	Determination of Gels in Polypropylene Film Manual Gel Count and Automated Gel Counter	Brabender CWB. or Optical Control Systems (OCS)

	<p>Feeler Gauges Cooling System: Vendor-specific; options include: Compressed air cooling Chilled water cooling Chill Roll Flat Film Unit Configuration: Take-Off Type: Horizontal Sheet Extrusion Take-Off Primary Roll: Chrome-plated chill roll, 150–254 mm (6–10 inches) in diameter Width exceeds die width Temperature Range: 4°C to 50°C Reverse rotation option enabled Air Knife(s): Size: 150–200 mm (6–8 inches, depending on die width) Multiple units optional Nip Rolls: Speed Control: Digital line speed display Reversibility: Reverse rotation capability Adjustment: Manual or motorized with precision indicators Winder: Tubeless Winder configuration Integrated Slitter for edge trim removal Cooling Unit: Recirculating Chiller capable of maintaining chill roll temperature at 4°C Digital Temperature Display included Inspection System: Integrated Film Inspection Camera Connected to a Computer System for real-time monitoring Additional Accessories: Large Scissors for manual film handling and cutting</p>							
6	Overhead Projector		1		Gel in Cast film sample	PPG: 501	Determination of Gels in Polypropylene	3M Model #2000 Vendor:

							Film Manual Gel Count and Automated Gel Counter	3M or office supply store	
7	Projection Screen	Projection Screen Size: 1.3 x 1.3 meter, White	1		Gel in Cast film sample	PPG: 501	Determination of Gels in Polypropylene Film Manual Gel Count and Automated Gel Counter		
8	Deionized Water Purification System with all accessories	Output of 3 l/hr. UV lamp UF Filter	1			PPG: 423, 424, 428, 429, 432	De-ionised water to be use water bath & Water Circulator	Thermo Scientific Smart2Pur e 3 Model # 50129688 Thermo Fisher Scientific	
9	Environmental Chamber including all accessories	Able to maintain temperature of $23 \pm 1^\circ\text{C}$ Able to maintain humidity of $50 \pm 1\%$ Storage volume of 247 liters Purchase maximum number of internal shelves KBF 240 has 9 shelves. Will require water supply and drain.	1			PPG: 700, 703, 705, 706, 708, 713, 720	For conditioning of Polymer Sample	Binder Model KBF 240 Binder Cat. # 9020-0323	
10	Flexural Tester including all essential accessories & CRM with test	6800 Single Column Series 68SC-05 Load Cell - 100 N (maximum) Three-point flex fixture - Nose and Support diameters: 10 mm. PC with Bluehill® Universal software	1	1	Flexural Properties of Polypropylene	PPG: 705	Standard test method for flexural properties of Unreinforced and Reinforced Plastics and	Instron Cat. # 2810-400	

	certificate having traceability to NIST						electrical insulating Materials by ASTM D790		
11	Gas Chromatography with Dual FID , Head space, PC including all related essential accessories complying scope with CRM & test certificate having NIST or international traceability	Channel-I: PPG 424 Flame Ionization Detector. Analytical Column: DB-1, 60 m x 0.32 mm i.d., with a 5.0 µm film thickness. GS-Gas Pro, 60 m x 0.32 mm i.d. Agilent 7697A Headspace Sampler: Vials specific to vender requirements. Vial Crimper to fit vial size. Digital temperature & barometric pressure gauge: Extech SD700. Channel-II: PPG 432 - (1) Flame Ionization Detector. Analytical Column: DB-1, 60 m x 0.32 mm i.d., with a 5.0 µm film thickness. Agilent 7697A Headspace Sampler: Vials specific to vender requirements. Vial Crimper to fit vial size.	1	1	Residual Volatile in PP Volatile Organic Compound in PP	PPG: 424, PPG 432	PPG 424: Residual volatiles in Polypropylene by Headspace GC PPG 432: Determination of Volatile Organic Compounds in Polypropylene by Headspace GC - FID	Agilent Technologies, Inc.	
12	Gas Chromatography Dual FID, Headspace & Auto injector including Vaporiser, PC including all	Channel-I: PPG 423 - (1) Flame Ionization Detector On column inlet On column syringe 10 microliter injection syringe Analytical Column: DB-1, 30 m x 0.25 mm i.d. fused silica capillary; 0.25 µm film thickness Channel-II: PPG 428 - (1) Flame Ionization Detector	1	1	Oligomer content in PP Residual organic peroxide (Lupersol 101 & Trigonox 301) in PP	PPG: 423 PPG: 428	Oligomer content in PP by Gas chromatography Determination of residual organic peroxide (Lupersol 101 & Trigonox 301)	Agilent Technologies, Inc.	

	related essential accessories complying scope with CRM & test certificate having NIST or international traceability	10 microliter injection syringe Analytical Column: - Varian CP-Sil 13CB WCOT fused silica column, 25 m x 0.25 mm i.d. with a 0.2 µm film thickness Agilent 7650A Automatic Sampler Vials Sure Smart 2ml vial Thermo Fisher Cat. # 6PRV11-1P Vial Caps for 2ml vial					in polypropylene using capillary gas Chromatography		
13	Gas Chromatography Dual FID, Headspace & including vaporiser, PC including all related essential accessories complying scope with CRM & test certificate having NIST or international traceability	Channel-I PPG 429 Flame Ionization Detector Analytical Column: DB-1, 60 m x 0.32 mm i.d., with a 1.0 µm film thickness Agilent 7697A Headspace Sampler Vials specific to vender requirements Vial Crimper to fit vial size Channel-II PPG 009 Flame Ionization Detector. 6 port rotary valve with 2.0 cc loop. Sample Inlet Manifold - A manifold system to allow liquid propylene to be flashed and injected into the gas chromatograph at a pressure of 0.1 mPa. Analytical Column: Agilent Part# G3591-70001. 2 m, 3.175mm OD, Support Porapak Q, Mesh Size 80/100.	1	1	Determination of Lupersol 101 and Trigonox 301 in polypropylene	PPG: 429 PPG:009	Determination of select major decomposition by-products of Lupersol 101 and Trigonox 301 in polypropylene using static head space Capillary Gas Chromatography Determination of Trace Amounts of Carbon Monoxide, Methane, and Carbon Dioxide in Propylene by	Agilent Technologies, Inc.	

							Gas Chromatography		
14	Hazemeter including all essential accessories & CRM with test certificate having traceability to NIST	BYK "haze-gard i" BYK Part # 4775 Haze standards BYK Part # 4795 Film sample holder BYK Part # 4784	1		Haze	PPG: 504	PPG 504: Determination of Haze and Luminous transmittance of Transparent Plastics	BYK Gardner	
15	Hot Plate including all essential accessories	Cimarec+™ Hot Plate: Thermo Fisher Cat. # HP88850100. Max temperature: 540°C. Surface area: 260 mm x 260 mm.	5			PPG: 401, 802		Thermo Fisher Scientific Cimarec+™ SP88854100	Supporting Instrument
16	Hot Plate with Stirrer including all essential accessories	Stirring speed range: 50-1500 rpm Max temperature: 540°C Surface area: 108 mm x 108 mm	8			PPG: 801, 802, 415		Thermo Fisher Cat. # SP88854100 Cimarec+™ Stirring Hot Plate	Supporting Instrument

17	Automatic Compression Moulding (Hydraulic press) and Chiller including all essential accessories & PC system	Clamp force: 30 tonnes Platen size: 300 x 300 mm (minimum) Required: 2 sets of platens Top pair of platens electrically heated to continuously maintain 230°C Bottom pair of platens bored and configured for continuous water cooling 10°C Chilled Water: Can be either building utility or water chiller unit. Water chiller units should be sized by the press vendor.	1			PPG: 400,401, 404,408, 417,430, 435,436, 701,803, 807,808, 901		Wabash Metal Products, Inc.	
18	Automatic compression moulding (Hydraulic Press) Accessories	Required Sample Preparation Materials: Backing Plates (minimum of 2): - Aluminum, 25 x 25 cm, thickness 3 mm, lightly sand- blasted on one side. - Stainless steel, 25 x 25 cm thickness 1 mm. FTIR Specimen Mold (minimum of 8): - Brass 100 x 125 x 0.25 mm with cavity of 75 x 50 x 0.25 mm. PTFE Coated Al Foil: Examples - ANROB AR-303. - McMaster-Carr Cat.# 8656K61 Aluminum Foil: - 0.016 mm to 0.1 mm thick and 300 mm wide, 150 meter roll. - Thick pre-cut 25 x 25 cm foil sheets can be used (Optional). BoPET Film: - 0.016 mm to 0.1 mm thickness and 300 mm width, 100 meter roll. Scissors	1			400* 401* 404 408* 417 430 435 436 901 701*		Sheet metal supplier	

		- Blades longer than 75 mm. - Olfa: SCS-2, #9766.							
19	Hydrogen Generator	Fuel and Carrier Gas Flow rate: 1200 ml/min Moisture trap for outlet to GC	1			PPG: 423, 424, 428, 429, 432		Parker Hydrogen Gas Generator Parker Model # H2PEMP D-650 Parker Hannifin	
20	FTIR Spectrophotometer with all accessories & PC including all related essential accessories complying scope with CRM & test certificate having NIST or international	Nicolet™ iS50 FT-IR Spectrometer This equipment is required, and no substitutions will be accepted. Thermo Nicolet Mat. # 912A0763 Standard Mid-IR Optics (7,400-350 cm-1) Ge-on-KBr beam splitter DTGS detector with KBr window Single detector optics Standard Purged System including Purge Regulator Advanced OMNIC CD Software Package with TQ Pro and PC This Software is required, and no substitutions will be accepted. Val-Pro System Validation Software FT-IR Spectrometer Validation Handbook Requires Thermo Nicolet FTIR, KBr/ DTGS	1	1		PPG: 404, 417, 430, 435, 436	PPG 404: General Method for Determination of Additives in Polypropylene by Infrared Spectroscopy PPG 417: Determination of Impact Copolymer Composition in Polypropylene Using	Thermo Fisher Scientific	

	traceability	beam splitter/detector combination. Nitrogen gas supply Clean and Dry Drierite Drying Column					ThermoNicolet FTIR with OMNIC® Software and Grace- PPA (Version 1) Program PPG 430: Determination of Random Copolymer Composition and Additives in Polypropylene Using Thermo-Nicolet FTIR with OMNIC® Software and Grace- PPA (Version 1) Program		
21	Unipol Polypropylene Characterization Programs		1				Unipol - PPA Characterization Calibration Programs: <u>These calibration programs will only work with Thermo Nicolet Omnic Software.</u>	Vendor: Grace Licensor	As per Licensor recommendation, calibration programs will only work with Thermo Nicolet Omnic Software.

22	Injection Molding machine with chiller including all accessories	<p>ENGEL Victory 50 Clamping Force: 500 kN (minimum). Recommended 600 kN. Screw Diameter: 25 mm. (minimum) L/D: 20:1. SPI patterned platens. Mold Temperature Control Unit: Single Zone. Heating wattage: 9 kW. Pump wattage: 0.5 kW. Equipment Cooling Water: Can be either building utility or water chiller unit. Water chiller units should be sized by the equipment vendor. Sample Part Collection: Ramp or shoot to direct parts out from inside the machine. Basket to collect parts from the ramp or shoot. Step ladder or platform: The hopper will not be easily accessible from the ground. The ladder or platform is to load the machine.</p>	1			PPG: 700, 703, 705, 706, 708, 713, 720, 904		ENGEL Machinery	
23	Test Specimen Molds	<p>Mold Insert System with SPI Platen Pattern 1. AIM™ Quick-Change Mold System Required: AIM # 5.4.3 (ASTM 2 cavity Tensile mold) Optional: AIM # 5.4.4a (HDT) AIM # 5.5.3 63.5 mm (2.5 inch) disk AIM # 5.5.6 1 mm thickness plaque with gate closure. 2. The World Mold™ System Required: WM 801 (ASTM 2 cavity Tensile mold) Optional: 2-Cav Flex Bar (HDT) WM 808 63.5 mm (2.5 inch) disk</p>	1			PPG: 700, 703, 705, 706, 708, 713, 720, 904		Axxicon or Master Precision	

		WM 809 1 mm thickness plaque with gate closure.							
24	Izod Impact Tester including all essential accessories, PC & CRM with test certificate having traceability to NIST	Instron CEAST Izod Impact Tester 9050 Required: Specimen Vice (Pneumatic) Instron Cat. # 7610-220 Specimen Adapter for ASTM Instron Cat. # C6545-051 Hammer: 2.75J Instron Cat. # 7600-202 Optional: Hammer: 1.0 J Instron Cat. # 7600-201 Hammer: 5.5 J Instron Cat. # 7600-205 Desktop Computer Visual IMPACT Software	1	1	Impact resistance of plastic	PPG: 708	Determination of Notched IZOD Impact Strength of Polypropylene	Instron Corp.	

25	Light Panel Viewing System including all accessories	Acrylic Frame Light Panel - Work surface: 46 x 61 cm	1			PPG: 501, 503	PPG 501: Determination of Gels in Polypropylene Film Manual Gel Count and Automated Gel Counter PPG 503: Determination of visual	Thomas Scientific Cat. # 20A00U38 0	
26	Automatic Melt flow indexer with Auto Cleaning facility and Die Swell, Die Plug and Half Die arrangement with all accessories & PC including all related essential accessories complying scope with	Plastometer: - Dies: 2.095 mm inner diameter orifice, 8 mm length, tungsten carbide (minimum 2 per machine). - Weight set: 2.16 kg. - Weightlifter. - Charging & Cleaning Tools. - Go/No-Go Gauge. - Cotton cleaning patches. - Brass brushes. - Anchor 15B Brass. -Mixing containers: - Wide mouth design. Optional: Die Plug for high melt flow resins. Computer and software to run and record data for all plastometers.	3	3	Melt flow rate	PPG: 410	Determination of Melt flow rates of Thermoplastics by ASTM D1238	Zwick Roell, Instron Corp. or Göttfert	

	CRM & test certificate having NIST or international traceability							
27	Micrometer (Film Thickness) including all accessories	Deep Throat type with 120 mm clearance.	1		Film Thickness	PPG:501	Determination of Gels in Polypropylene Film	Mitutoyo Digimatic # 543-320S: Vendor: Mitutoyo
28	Micrometer (Notch Depth) including all accessories	Mitutoyo Digimatic # 543-791B Cat. # 120042 - Range: 0 - 12.7 mm - Accuracy: 0.003 mm - Flat Carbide tip Ø6.5mm Knife-edge point Cat. # 120067 Spindle lifting cable Cat. # 540774 Dial Gage Stand with Flat Anvil Cat. # 7002-10	1		Impact resistance of plastic	PPG: 708	Determination of Notched IZOD Impact Strength of Polypropylene	Mitutoyo
29	Micrometer (Specimen Thickness)	Range: 12 mm Accuracy: ± 0.001 mm Measuring Force: 1.5 N	1			PPG: 703, 705,706, 708, 712,901	Determination of Heat Deflection Temperature (HDT) in the Edgewise Position Determination of Notched IZOD Impact Strength of Polypropylene	Mitutoyo

							Tensile Properties of Polypropylene Films and Thin Sheets		
30	Micrometer including all accessories (Specimen Width)	Mitutoyo Digital Micrometer Mitutoyo # 293-821-30 - Range: 0 - 25 mm - Auto switch metric to English units - ± 0.002 mm accuracy Micrometer Stand Mitutoyo # 156-101-10	1			PPG: 703, 705, 708, 712	Determination of Heat Deflection Temperature (HDT) in the Edgewise Position Determination of Notched IZOD Impact Strength of Polypropylene Tensile Properties of Polypropylene Films and Thin Sheets	Mitutoyo	
31	Notch Cutter including all accessories	TMI model 22-80-00 - Blade Angle: $45 \pm 1^\circ$ - Blade Tip Radius: 0.25 ± 0.05 mm	1		Impact resistance of plastic	PPG: 708	PPG 708: Determination of Notched IZOD Impact Strength of Polypropylene	TMI	
32	Notch Depth Gauge Block including all accessories	Mitutoyo #611194-541 Rectangular Steel Gauge Block - Size: 10.16 mm	1		Impact resistance of plastic	PPG: 708	PPG 708: Determination of Notched IZOD Impact Strength of	Mitutoyo	

33	Overhead Projector including all accessories		1	Gel in Cast film sample	PPG: 501	Polypropylene Determination of Gels in Polypropylene Film Manual Gel Count and Automated Gel Counter	3M Model #2000 Vendor: 3M or office supply store	
34	Oxygen Analyser (PPM) with vaporiser for Determination of Oxygen including all essential accessories & CRM with test certificate having traceability to NIST	Oxygen Analyser (PPM) with vaporiser for Determination of Oxygen including all essential accessories & CRM with test certificate having traceability to NIST with following features: 1.Measurement Range:0-2 ppm to 0-25% O2 2.Response time : < 60 seconds or less 3.Operating Temperature: 0 to 40°C 4.Reproducibility: ±1% at constant temperature 5.Sensor Type: Micro-fuel Cell 6. Approval: intrinsically safe, Class I Div 1 Groups A-D T6 ATEX, intrinsically safe, Ex ia IIC T3 CE marked	2	Oxygen	ASTM D7607 / D7607M - 19	Standard Test Method for Analysis of Oxygen in Gaseous Fuels (Electrochemical Sensor Method)	Teledyne Analytical Instruments Teledyne 3110	
35	Pyrometer including all accessories	2-Input Thermocouple Probe Thermometer Cole Parmer ID # EW-20250-02 Required probes: Immersion probe min probe length: 15 cm Surface contact probe max diameter: 4 mm	1		PPG: 202, 203, 400, 415, 801, 901, 904	The equipment temperature is verified at each temperature by using the pyrometer and immersion probe	Cole Parmer	
36	Refrigerated	ThermoFisher Scientific ARCTIC A10B			PPG:		Thermo	Supporting

	Water Bath including all accessories	Refrigerated Circulators Thermo Fisher Cat.#: 1524101 - Must maintain temperature of 25 ± 0.5°C	2			400 PPG: 415 PPG: 801		Fisher Scientific	Instrument
37	Water Bath including all accessories	Thermo Scientific TSCIR35: Thermofisher Scientific Cat. # TSCIR35. Capacity: 35 L.	1			PPG: 400		Thermo Fisher Scientific	
38	Sample Cylinder Holder	Wasson-ECE Single Cylinder Holder: Bench mounted stand to hold gas cylinder with connections to attach to GC or other analytical equipment. Recommend Heated models to prevent condensation of analytes.	1			PPG:005 ,006,009		Vendor: Wasson-ECE or Swagelok	
39	Sieve Shaker including all accessories	Fritsch Analysetter 3 Spartan 20 cm diameter sieves 9 sieves, 5 cm high 2 sets of 9 sieves are recommended. Sieves / Pan(s) Required: Brass, 20 cm D, 5 cm H #4 mesh #5 mesh #10 mesh #16 mesh #18 mesh #35 mesh #60 mesh #120 mesh #200 mesh cover pan	1			PPG: 201, 204	PPG 201: Determination of fines and oversized pellets in Polypropylene PPG 204: Determination of Particle size distribution of Reactor resin	Fisher Scientific	

40	Automatic Particle Size Analyzer including all essential accessories & CRM with test certificate having traceability to NIST	<p>The system shall be based on the principle of optical laser scattering of monochromatic light. The system measurement capability, size range and resolution have all been enhanced by an expanded array of focal plane, wide angle and backscatter detectors, as well as by the use of red and blue light. The system comprises a single optical unit supported by a comprehensive family of sample dispersion units to condition and present a wide range of wet and dry samples to the optical unit for measurement.</p> <p>The System shall have following features: Full automation with software-driven control and data management Plug-and-play option for dispersion units for all sample types Automated control of dispersion for optimal sample presentation Wet or dry Measurements, with simple changeover between sample types Single button operation Wide application The system should be provided with Elements Validation tool kit.</p> <p>The system should be capable for Dual wavelength measurement for enhance sizing and provides superior sensitivity across a wide size range.</p> <p>Single lens detection for making change of dispersion unit easier Any reconfiguration is automatic and software-controlled.</p> <p>The system should be equipped with auto align facility to make alignment easier and quick Must be able to measure from 0.01 - 3500 microns using a single lens range</p>	1	1	Particle size distribution of materials in powder form	PPG 204	PPG 204: Determination of Particle size distribution of Reactor resin		
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41	Specimen Cutter	Plastic Sheer Cutter Main Trophy Shur-Cut 12” Shear or Guillotine cutter with minimum 5 mm opening.	1			PPG: 700, 701, 703, 705, 706, 708, 709, 711, 713, 720			
42	Color Spectrophotometer for measurement of yellowness Index including all essential accessories & CRM with test certificate having traceability to NIST	Hunter Lab Labscan Agera - Calibrated White, Green and Black standard. Port Insert, Glass sample Cup Holder P/N A02-1010-316 Glass Sample Cup: 64mm P/N 04-7209-00 Sample Cup Opaque Cover P/N 04-4000-00	2	1	Yellowness Index	PPG: 505	Determination of Yellowness Index of Plastic Pellets via ASTM D6290	Hunter Associates Laboratory, Inc.	
43	Tensile tester with Capacity 5 kN having Testing speed range: 0.001 to 1500 mm/min (0.00004in/min to 60 in/min).with Set of	6800 Table Model Series, 68TM-10 Load Cell Minimum 5 kN Grips Grip Faces – serrated – typically 25 x 25 mm Minimum 5kN rating. Extensometer Instron Cat. # 2630-112 Strain Gauge, 50 mm Optional: Extra Height (E2) Automatic grip air control kit (internal) -with foot switch for pneumatic grips as required Film testing rubber-coated grips (25 x 25 mm) Instron Cat. # 2702-300	1	1	Tensile Properties (Tensile Strength)	PPG: 703, 712	PPG 712: Tensile properties of Thin Plastic sheeting according to ASTM method D882 PPG 703: Determination	Instron Corp.	

	calibration for measurement of tensile & Flexural strength including all essential accessories & CRM with test certificate having traceability to NIST	Extra Long Travel Extensometer (Recommended) Instron Cat. # 2603-085					of Tensile properties of plastics (ASTM D638)		
44	Timer (Process)	Programmable Lab Timer Fisher Scientific Cat. # S02272 Big Digit Dual channel Audible Alarm	2			PPG: 202, 203, 400, 501, 503, 708		Fisher Scientific	
45	Universal Tool Kit		1					DURATECH Tool Kit: Duratech SKU: DTMTSS2 69AH. Vendor: Various.	
46	Vacuum Oven and Pump including all essential	Lindberg/Blue M Vacuum Oven Fisher Scientific Cat. # 13-258-13 Oven Volume: 18.6 liters Vacuum Range: 1 x 10 ⁻² torr Digital Temperature indicator MaximaDry	1			PPG: 401, 801, 802		Fisher Scientific	

	accessories	Diaphragm Vacuum Pump Fisher Scientific Cat. # 13-880-14 Max Vacuum: 75 torr Flow rate: 20 l/min. Dry Nitrogen Supply						
47	Xylene Extraction Apparatus including all essential accessories	Extraction Setup (per 1 setup): Erlenmeyer 500 ml flask (24/40). Allihn condenser (24/40). - Stopper (24/40). Stir bar(s): Teflon-coated, 40 mm length. Ring stand and large clamp. Gas Flow Indicator. Dual hose inlet adapter (24/40). Gas washing bottle. (Need 1 for every 2 apparatus)	4			PPG: 801	Determination of Xylene Solubles in Polypropylene by Gravimetric Filtration Method using Nitrogen Purge	Vendor: Fisher Scientific

48	Xylene Pan Desiccator	Nalgene Acrylic Desiccator Cabinet Fisher Cat. # 08-642-22 - Dimensions: 31 x 31 x 45.7 cm	2			PPG: 410, 401, 415, 801		Fisher Scientific	
49	Zero Air Generator	Parker Balston Zero Air Generator Parker Model # HPZA-3500 - Flow rate: 3.5 L/min	1			PPG: 423, 424, 428, 429, 432		Parker Hannifin Co	
50	Benchtop NMR System with all accessories & PC including all related essential accessories	The system shall have provision of Low field, pulsed NMR Spectrometer with Built in sample conditioning, heating facility, flow control, temperature control, auto-sampler, 20MHZ The System with sample volume at least 20 ml for the proper analysis, analysis temperature 80 to 100 °C	1	1	Xylene Solubility	PPG 809	PPG 809: Xylene Solubles in Polypropylene by Benchtop NMR	Lexmar Global Inc. or Bruker	
51	Extraction Desiccator	Nalgene Acrylic Desiccator Cabinet: Fisher Cat. # 08-642-22 Dimensions: 31 x 31 x 45.7 cm	1			PPG: 400,401, 415	Determination of n-Hexane Extractables in Polypropylene at 50°C based on FDA		
52	Extraction Flask	Erlenmeyer flask: Fisher Scientific Cat. # K617000-0824. - Joint: 24/40. - Capacity: 2000 ml.	3			PPG: 415	Determination of Xylene Extractables based on FDA requirements	Vendor: Fisher Scientific	
53	Extraction Thimbles	Filtration Extraction Thimble: Round 30 x 100 mm. Double thickness. Glass Wool:	5 ca se			PPG: 802	Determination of Heptane Insolubles in	Vendor: Fisher Scientific.	

		Fisher Scientific Cat. # 11-388. Tweezers 15-20 cm Fisher Scientific Cat. # 10-316A.					Polypropylene	
54	Lab Scale Extruder with Pelletizing equipment (Laboratory pelletizer) with all accessories & PC including all related essential accessories	Extruder: Diameter: 25 - 38 mm. Throughput: 5 – 20 kg/h. Six total heating zones (minimum). Operating Temperature up to 280°C. Probe(s) to measure the melt temperature and pressure. -Minimum 1 set of probes at the end of barrel. Rupture Disk (Safety Port) at end of barrel. Rated rupture safety plug rated for 9,400 psig @ 150C Extruder Screw (PP Specific): Diameter: 25 - 38 mm. L/D: 30:1 (minimum). 10D Feed, 10D Compression, 10D Metering. Compression Ratio 3.5:1 (maximum 4:1). Single Flight Standard Square Pitch Screw. Chrome Plated. Equipment Cooling System: Vendor specific: can be compressed air or chilled water. Extruder Cleaning Tools: Brass scrappers and brass brushes. Other tools as designated by the Vendor. Material handling scoops: 2.4 liter	1	1		PPG: 202 PPG: 203 PPG: 300	Preparation of Additive Standards for Polypropylene Lab Scale Pelletization of Polypropylene Powders	Vendor: Brabender CWB. or Optical Control Systems (OCS)

55	Pelletizing Accessories	<p>Pelletizing Accessories: Base unit is Extruder (E# 109). Extruder die head: Sized to extruder screw diameter. Single or Dual strand horizontal die head. Rod Die nozzles Ø1.75 mm (3:1). Water trough assembly: Minimum 1.5-meter length bath. Air knife assembly. Water recirculating cooler or connection to house chilled water supply. Water cooler sized to vendor recommendations. Pelletizer: Dual Motors for independent control of feed and cutter speed. Max rotation cutting speed: 800 RPM. Poly Bags: Uline Model No. S-1379. 45mm x 60 mm.</p>	1			PPG: 300		Vendor: Brabender CWB. or Optical Control Systems (OCS)	Part of Lab Scale Extruder with Pelletizing equipment (Laborator y pelletizer)
56	Film Cutter	<p>Film Strip / Tape Cutter JDC Part # 99-2067 25 mm or 25.4 mm size. GSC Model # GSC-100 25 mm or 1 in.</p>	1			PPG: 712	Tensile properties of Thin Plastic sheeting according to ASTM method D882	Thwing- Albert Instrument Company	
57	Filterability Extruder (Molten Polymer) with all accessories & PC	<p>Polymer Filtration Equipment: Base unit is Extruder (E# 110). Screen Changer / Filterability Adaptor. Capable to hold 25-30 mm Diameter Assemblies. PPG 202 Individual Layer Screen Mesh Sizes with Diameter to Match Inner Diameter of Breaker Plate.)~ 23- 24 mm).</p>	1	1	% Filterability	PPG: 202	Procedure to analyze a polypropylene sample for the percent (%) filterability using a mesh screen	Vendor: Brabender CWB or Optical Control Systems (OCS)	

	including all related essential accessories	13 Micron. 25 Micron. 44 Micron. 297 Micron. 595 Micron. Breaker Plates: Breaker plate with 25 holes as per ASTM D6265. Sizing Dies: Single 6.35 mm hole in the center as per ASTM D6265. Single 19.05 mm hole in the center as per ASTM D6265. Recommended: Gear pump, some systems will have this as standard.					pack to filter out impurities		
58	Filterability Extruder (Molten Polymer) with all accessories & PC including all related essential accessories	Polymer Filtration Equipment: LFT57-GP with LE25-30 Extruder Screen Changer / Filterability Adaptor. Sizing die to go from barrel diameter to 57.3 mm diameter to fit screens and breakerplate. Breaker plate: Constructed with 31 holes as per ASTM D3218. PPG 203 Screens are 2 layer screens made to a diameter of 56.7 mm. 44 micron filter mesh with 250 micron backing screen. 13 micron filter mesh with 44 micron backing screen. Recommended: Gear pump, some systems will have this as standard.	1	1	Change in Pressure	PPG:203	Procedure to analyze a polypropylene sample for the pressure increase during filtering	Labtech Engineering Co.	

59	Gardner Impact Tester including all essential accessories & CRM with test certificate having traceability to NIST	BYK SPI Heavy-Duty Impact Tester with 3.6 kg weight BYK Part # 5513 ASTM D5420 GC Geometry 16.3 mm die BYK Part # 1264 15.9 mm round nose punch BYK Part # 1243 45° bent long nose cutting pliers ~190 mm Fisher Scientific Cat. # 50-129-9767 Cold storage racks . Designed to hold 30 disks and able to fit inside the Cold Box . Custom fabrication Optional: Accessory sets for 1.8 kg and 7.2 kg drop weights	1	1	Impact resistance of plastic	PPG: 713 ASTM D5420	Standard Test Method for Impact Resistance of Flat, Rigid Plastic Specimen by Means of a Striker Impacted by a Falling Weight (Gardner Impact)	BYK Gardner	
60	Gloss Meter (45°) including all essential accessories & CRM with test certificate having traceability to NIST	BYK-Gardner Gloss Meter BYK Part # 4567 - Micro-Gloss 45°	1		Gloss @45°	PPG: 903, 720	PPG 720: Molding conditions for optical plaques	BYK Gardner	

61	Gloss Meters (60°C) including all essential accessories & CRM with test certificate having traceability to NIST	BYK-Gardner Gloss Meter BYK Part # 4561 - Micro-Gloss 60°	1		Gloss @60°	PPG: 903, 720	PPG 720: Molding conditions for optical plaques	BYK Gardner	
62	Hexane Extraction (Reflux) including all essential accessories	Extraction Setup (per 1 setup): Allihn Condenser: Fisher Scientific Cat. # 07-736B. - Joint: 24/40. Jacket Volume: 300 ml. Drip tip. Erlenmeyer Flask: Fisher Scientific Cat. # 10-047E. - Joint: 24/40. Capacity: 250 ml. Economical Solid Glass Beads: Fisher Scientific Cat. # 11-312D. Size: 6 mm. Vendor: Fisher Scientific	2			PPG:401	Method for Determination of N- Hexane Extractables in Homopolymer Polypropylene based on FDA requirements	Fisher Scientific	
63	Hexane Extraction Basket (50°C)	Stainless Steel Sample Basket and Hangar: - See ASTM D5227 Fig. X1.1 for design and specifications.	3			PPG 400	Method for Determination of n- Hexane Extractables in Polypropylene at 50°C based on FDA requirements		Custom Fabrication Supporting item for Hexane extraction

64	Rockwell Hardness Tester including all essential accessories & CRM with test certificate having traceability to NIST	Zwick Roell hardness tester Zwick Model #ZHR8150CLK Setup for R scale. 12.7 mm indenter 60 kg major load	1	1	Rockwell Hardness	PPG: 709	Determining Rockwell hardness of plastics and Electrical insulating materials	Zwick Roell	
65	Rockwell Hardness Plaque Frame	Steel or Brass 6 sample plaque frame Sample cavities can be either of the following 25 x 25 x 6 mm square 25 x 6 mm disk	1			PPG: 709	Determining Rockwell hardness of plastics and Electrical insulating materials		Custom Fabrication
66	Polymer Grinder including all essential accessories	Grinder: Fritsch Pulversiette 14. Retsch ZM 300. Sieve ring size of 0.5 mm. Cooling: Liquid Nitrogen and/or Dry ice.	1			PPG: 802	Determination of Heptane Insolubles in Polypropylene		Supporting Instrument
67	Ring Stand and Clamps	Support Stand with Rod: Fisher Scientific Cat. # S139611. Heavy Base. 61 cm length Rod. Clamps: Fisher Scientific Cat. # 31-501-955. - Large (0-102 mm). Coated, 3 or 4 finger. Clamp Holder: Fisher Scientific Cat. # S13071 Ring.	4			PPG :400 PPG: 401 PPG: 802	Method for Determination of n- Hexane Extractables in Polypropylene at 50°C based on FDA requirements	Fisher Scientific.	

68	Soxhlet Extractor	Soxhlet Extractor Apparatus Soxhlet Extractor Body Fisher Scientific Cat. # 09-558C 55/50 glass joint on top 24/40 glass joint on bottom Allihn Condenser Fisher Scientific Cat. # 09-557C Bottom glass joint of 55/50 Tubulation O.D is 10 mm 500 mL flat bottom flask Fisher Scientific Cat. # 0-559D 24/40 glass joint	3		Heptane Insolubles	PPG: 802	Determination of Heptane inslubles in Polypropylene	Fisher Scientific	
69	Standard Refrigerator	Standard Explosion-Proof Refrigerator: - Minimum of 396 liters. - Able to maintain a temperature of 2 – 5 °C.	1			PPG: 423 PPG: 424	General Laboratory application for Storage of samples, Calibration standard and Reagents	Fisher Scientific	
70	Thermal Analyzer (Differential Scanning Calorimeter) along with Sample Preparation, including all essential accessories & CRM with test certificate	TA Instruments DSC 2500 Differential Scanning Calorimeter Refrigerated Cooling System 90 Indium metal standard Nitrogen Supply TA Instruments Tzero Sample Press Aluminum sample pans and lids	1	1	Melting Point Oxidation Induction Time	PPG: 803, 807, 808	PPG 803: Determination of melting point and crystallization temperature by DSC PPG 807: Determination of oxidation induction time by Differential	TA Instruments	

	having traceability to NIST					scanning calorimetry			
71	Thermal Shrinkage	RayRan RR/FSL: Temperature range: ambient to 160°C. Metal die or template: 100 x 100 mm. Metal holders to hold the film specimen. Metal Rule in mm. Free shrink holder. Heat transfer fluid: High temperature silicon oil. (minimum of 180°C.) Example: Thermo Scientific Cat.# 045896.A4.	1		Unrestrained thermal shrinkage for PP Film	PPG :711	PPG 711: Unrestrained Linear Thermal Shrinkage of Polypropylene Film	Industrial Physics	
72	Thermo-Mechanical Tester (HDT) including all essential accessories & CRM with test certificate having traceability to NIST	INSTRON HV6X: Set of binary weights (6). Instron Part # C-7320-900. HDT testing head (6). Instron Part # C-7320-078. HDT head positioning tool. Instron Part # C-7320-218. Silicon oil (20L). Instron Part # C-0800-413. Equipment Cooling System. Can be either building utility or water chiller unit. Water chiller units should be sized by the equipment vendor. Forceps: 152 mm in length. Long Reach Funnel. Polymer Beaker: 1 liter volume	1	1	Heat Deflection Temperature (HDT)	PPG: 706	PPG 706: Determination of Heat Deflection Temperature (HDT) in the Edgewise Position	Vendor: INSTRON	
73	Vacuum Oven including all essential accessories	Lindberg/Blue M Vacuum Oven Fisher Scientific Cat. # 13-258-13 Volume: 18.6 L Vacuum Range: 1 x 10 ⁻² torr Digital Temperature indicator Maxima Dry	1			PPG: 400	PPG 400: Method for Determination of n-Hexane Extractables in	Vendor: Fisher Scientific	