

Bid Document

Bid Details	
Bid End Date/Time	11-10-2021 09:00:00
Bid Opening Date/Time	11-10-2021 09:30:00
Bid Life Cycle (From Publish Date)	90 (Days)
Bid Offer Validity (From End Date)	65 (Days)
Ministry/State Name	Ministry Of Petroleum And Natural Gas
Department Name	Oil India Limited
Organisation Name	Oil India Limited
Office Name	Oil India Limited
Total Quantity	3
Item Category	Horizontal Emulsion Treater (ET) with Flame arrested Burner, Burner Management System & allied Instr
MSE Exemption for Years of Experience and Turnover	No
Startup Exemption for Years of Experience and Turnover	No
Document required from seller	Certificate (Requested in ATC),Additional Doc 1 (Requested in ATC),Additional Doc 2 (Requested in ATC),Additional Doc 3 (Requested in ATC),Additional Doc 4 (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled	No
Time allowed for Technical Clarifications during technical evaluation	5 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	Yes
Inspection to be carried out by Buyers own empanelled agency	Yes
Type Of Inspection	Stage-wise Inspection
Name of the Empanelled Inspection Agency/ Authority	Board of Officers
Evaluation Method	Total value wise evaluation

EMD Detail

Required	No
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ePBG Detail

Advisory Bank	HDFC Bank
ePBG Percentage(%)	3.00
Duration of ePBG required (Months).	20

(a). EMD & Performance security should be in favour of Beneficiary, wherever it is applicable.

Beneficiary:

SMM

Bank Name :HDFC BANK LIMITED Branch Name :Duliajan Bank Account No.:21182320000016 Type of Account :Current Account IFSC Code :HDFC0002118 MICR Code :786240302 SWIFT Code :HDFCINBBCAL The Bank Guarantee issued by the Bank must be routed through SFMS platform as per following details: (i) MT 760 / MT 760 COV for issuance of Bank Guarantee (ii) MT 760 / MT 767 COV for amendment of Bank Guarantee The above message / intimation shall be sent through SFMS by the BG issuing Bank branch to HDFC Bank, Duliajan Branch, IFS Code - HDFC0002118; SWIFT Code - HDFCINBBCAL. Branch Address: HDFC Bank Limited, Duliajan Branch, Utopia Complex, BOC Gate, Jayanagar, Duliajan, Dibrugarh, PIN - 786602. The vendor shall submit to OIL the copy of the SFMS message as sent by the issuing bank branch along with the original bank guarantee (Amrit Loushon Bora)

Splitting

Bid splitting not applied.

MII Purchase Preference

MII Purchase Preference	Yes
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MSE Purchase Preference

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

2. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for

Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY.

3. Inspection of Stores by Nominated Inspection Authority / Agency of buyer or their authorized representatives

An independent third party Professional Inspection Body can help buyer in mitigating buyer's risk with pre-dispatch/post-dispatch inspection in order to ensure that equipment, components, solutions and documentation conform to contractual requirements. The buyer has a right to inspect goods in reasonable manner and within reasonable time at any reasonable place as indicated in contract. Inspection Fee/ Charges (as pre-greed between buyer and Inspection Agency) would be borne by the buyer as per their internal arrangement but may be recovered from the seller if the consignment failed to conform to contractual specification and got rejected by the Inspection Officer. If so requested and accepted by the seller, initially seller may pay for inspection charges as applicable and get the same reimbursed from buyer if consignment accepted by the Inspecting Officer. For reimbursement seller has to submit proof of payment to Inspection Agency.

Seller/OEM shall send a notice in writing / e-mail to the Inspecting officer / inspection agency specifying the place of inspection as per contract and the Inspecting officer shall on receipt of such notice notify to the seller the date and time when the stores would be inspected. The seller shall, at his own expenses, afford to the Inspecting officer, all reasonable facilities as may be necessary for satisfying himself that the stores are being and or have been manufactured in accordance with the technical particulars governing the supply. The decision of the purchaser representative /inspection authority regarding acceptance / rejection of consignment shall be final and binding on the seller.

The Seller shall provide, without any extra charge, all materials, tools, labour and assistance of every kind which the Inspecting officer may demand of him for any test, and examination, other than special or independent test, which he shall require to be made on the seller's premises and the seller shall bear and pay all costs attendant thereon.

The seller shall also provide and deliver store / sample from consignment under inspection free of charge at any such place other than his premises as the Inspecting officer may specify for acceptance tests for which seller/OEM does not have the facilities or for special/ independent tests.

In the event of rejection of stores or any part thereof by the Inspecting officer basis testing outside owing to lack of test facility at sellers premises, the seller shall, on demand, pay to the buyer the costs incurred in the inspection and/or test. Cost of test shall be assessed at the rate charged by the Laboratory to private persons for similar work.

Inspector shall have the right to put all the stores or materials forming part of the same or any part thereof to such tests as he may like fit and proper as per QAP/governing specification. The seller shall not be entitled to object on any ground whatsoever to the method of testing adopted by the Inspecting officer.

Unless otherwise provided for in the contract, the quantity of the stores or materials expended in test will be borne by seller.

Inspecting officer is the Final Authority to Certify Performance / accept the consignment. The Inspecting officer's decision as regards the rejection shall be final and binding on the seller.

The seller shall if so required at his own expense shall mark or permit the Inspecting officer to mark all the approved stores with a recognised Government or purchaser's mark.

Horizontal Emulsion Treater (ET) With Flame Arrested Burner, Burner Management System & Allied Instr (3 pieces)

(Minimum 50% Local content required for MII compliance)

Brand Type	Unbranded
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Technical Specifications

Buyer Specification Document [Download](#)

Consignees/Reporting Officer and Quantity

S.No.	Consignee/Reporting Officer	Address	Quantity	Delivery Days
1	Babul Kumar Borah	786171,OIL INDIA LIMITED, OFFICE OF THE ASSET MANAGER, EASTERN ASSET, DIGBOI	2	300
2	DIPANKAR PATHAK	786602,Oil India Limited, Duliajan, Assam	1	300

Buyer added Bid Specific Additional Scope of Work

S.No.	Document Title	Description	Applicable i.r.o. Items
1	Notes to bidder & BEC BRC View	Notes to bidder & BEC BRC	Horizontal Emulsion Treater (ET) With Flame Arrested Burner, Burner Management System & Allied Instr(3)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Additional Terms and Conditions

- Bidder financial standing:** The bidder should not be under liquidation, court receivership or similar proceedings, should not be bankrupt. Bidder to upload undertaking to this effect with bid.
- Buyer Organization specific Integrity Pact shall have to be complied by all bidders. Bidders shall have to upload scanned copy of signed integrity pact as per Buyer organizations policy along with bid. [Click here to view the file](#)
- Bidder shall submit the following documents along with their bid for Vendor Code Creation:
 - Copy of PAN Card.
 - Copy of GSTIN.
 - Copy of Cancelled Cheque.
 - Copy of EFT Mandate duly certified by Bank.
- OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.
- Supplier shall ensure that the Invoice is raised in the name of Consignee with GSTIN of Consignee only.
- The buyer organization is an institution eligible for concessional rates of GST as notified by the

Government of India. The goods for which bids have been invited fall under classification of GST concession and the conditions for eligibility of concession are met by the institution. A certificate to this effect will be issued by Buyer to the Seller after award of the Contract. Sellers are requested to submit their bids after accounting for the Concessional rate of GST.

Applicable Concessional rate of GST : 5%

Notification No. and date : 3/2017 dated 28/06/2017

7.
 1. The Seller shall not assign the Contract in whole or part without obtaining the prior written consent of buyer.
 2. The Seller shall not sub-contract the Contract in whole or part to any entity without obtaining the prior written consent of buyer.
 3. The Seller shall, notwithstanding the consent and assignment/sub-contract, remain jointly and severally liable and responsible to buyer together with the assignee/ sub-contractor, for and in respect of the due performance of the Contract and the Sellers obligations there under.
8. Without prejudice to Buyer's right to price adjustment by way of discount or any other right or remedy available to Buyer, Buyer may terminate the Contract or any part thereof by a written notice to the Seller, if:
 - i) The Seller fails to comply with any material term of the Contract.
 - ii) The Seller informs Buyer of its inability to deliver the Material(s) or any part thereof within the stipulated Delivery Period or such inability otherwise becomes apparent.
 - iii) The Seller fails to deliver the Material(s) or any part thereof within the stipulated Delivery Period and/or to replace/rectify any rejected or defective Material(s) promptly.
 - iv) The Seller becomes bankrupt or goes into liquidation.
 - v) The Seller makes a general assignment for the benefit of creditors.
 - vi) A receiver is appointed for any substantial property owned by the Seller.
 - vii) The Seller has misrepresented to Buyer, acting on which misrepresentation Buyer has placed the Purchase Order on the Seller.
9. While generating invoice in GeM portal, the seller must upload scanned copy of GST invoice and the screenshot of GST portal confirming payment of GST.
10. Wherever Essentiality Certificate is applicable (PEL/ML), successful bidder should provide Proforma Invoice for processing for EC application and material should be dispatched after receiving of EC from DGH. In view of the same, an ATC may be incorporated in GeM, viz, "BIDDER/OEM must provide Proforma Invoice for processing for EC application within 255 days from date of issue of GeM Contract and material should be dispatched after receiving of EC from DGH."
11. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1 + 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 100% of total value.

12. Purchase Preference linked with Local Content (PP-LC) Policy:

The bid clause regarding "Preference to Make In India products" stands modified in this bid and shall be governed by the PPLC Policy No. FP-20013/2/2017-FP-PNG dated 17.11.2020 issued by MoP&NG as amended up to date. Accordingly, bidders with Local Content less than or equal to 20% will be treated as "Non Local Supplier". The prescribed LC shall be applicable on the date of Bid opening. Sanctions on the bidders for false / wrong declaration or not fulfilling the Local Content requirement shall be as per the PPLC policy. Further following additional provisions are added in the certification and verification of local content provision of the Preference to Make in India clause:

- i. In case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practicing cost accountant or practicing chartered accountant giving the percentage of local content is also acceptable.
- ii. Along with Each Invoice: The local content certificate (issued by statutory auditor on behalf of procuring company) shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total

work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.

- iii. The bidder shall submit an undertaking from the authorized signatory of bidder having the Power of Attorney along with the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract.

- 13. Bidder's offer is liable to be rejected if they don't upload any of the certificates / documents sought in the Bid document, ATC and Corrigendum if any.

Disclaimer

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization. Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specification and / or terms and conditions governing the bid. Any clause incorporated by the Buyer such as demanding Tender Sample, incorporating any clause against the MSME policy and Preference to make in India Policy, mandating any Brand names or Foreign Certification, changing the default time period for Acceptance of material or payment timeline governed by OM of Department of Expenditure shall be null and void and would not be considered part of bid. Further any reference of conditions published on any external site or reference to external documents / clauses shall also be null and void. If any seller has any objection / grievance against these additional clauses or otherwise on any aspect of this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws.

---Thank You---

Horizontal Emulsion Treater (ET) with Flame arrested Burner, Burner Management System & allied Instrumentation as per API Specification 12L, ASME SEC VIII, DIV-I , OIL DRAWINGS and specifications given below:

OIL DRAWING NOS.

OIL/1581/A

OIL/1582

OIL/1583/B

OIL/1584

OIL/1585

OIL/1586

OIL/1587/A

OIL/1645

& OIL/PDNO/P&D/015/A-01/01 (for Flame Arrestor)

Note: The above-mentioned drawings are enclosed with the tender documents.

A. SPECIFICATIONS FOR ET- VESSEL:

1. Body style: Horizontal, cylindrical, welded, ellipsoidal dished head. Dished end shall be spun in a dished head spinning machine only. There shall be no welding in the dished ends.
2. There should not be any welding joint in straight segment of fire tube. Fabrication and MOC shall be as per reference Drawing OIL1583/B only.
3. Material of construction:
 - a) All pressure plates to IS: 2002 Gr. 2A steel or SA-516 Gr 60/70.
 - b) Non pressure plates to IS: 2062 quality steel.
 - c) Seamless pipe conforming to SA 106 GR B must be used for fire tube and chimney.
 - d) Corrosion allowance: To be considered as per corrosion control guidelines-Appendix B of API specification 12L.
 - e) All flanged outlet/inlet connection must be rated to ANSI 150 Class RF only as per ANSI B 16.5.
 - f) Hydraulic testing of the vessel as per relevant code of API Specification 12L latest Edition/ ASME Section VIII Div. 1.
4. Nozzle/Connections: As per OIL drawings enclosed.
5. Service requirement and Design Data :

Oil handling capacity	:	5000 BPD fluid (900klpd)
Design pressure	:	3.5 kg/cm ²
Test pressure	:	5.25 kg/cm ²
Working temperature	:	60 deg C to 71 deg C
Oil gravity	:	23-35 deg API
Design code	:	ASME Sec. VIII Div. 1.
Radiography	:	100% as per relevant ASME code.

6. Heat Treatment:

- a. Post weld heat treatment (Stress Relieving) of the whole vessel should be carried out in an automatic temperature controlled furnace only.
- b. Post and pre-heat treatment of the fire tubes should be carried out separately as per **ASME section VIII**.

7. Finishing:

i) Vessel should be cleaned by sand blasting followed by one coat of uniform red oxide primer and one coat of Aluminium enamel painting on outside only.

ii) The vessel should be painted internally with heat resistant anti corrosive painting. The heat resistant paint should be able to withstand heat up to maximum working temperature up to 100 Deg. C.

8. Test Certificate :

The manufacturer will have to provide test certificate for the followings:

i) Raw materials used showing material compositions along with physical and chemical properties. The date of raw Materials test certificate, Mill test certificate shall be notolder than 1 year from the date of fabrication.

ii) Hydro test at operating pressure for 24 hours and at hydraulic test pressure for ½ hrs continuous record by pressure recorder. Hydraulic testing of the vessel shall be carried out as per relevant code of API Specification 12L latest Edition/ ASME Section VIII Div. 1.

iii) Radiography report with weld location shall be produced showing quality of weld joints.

iv) Heat treatment chart of PWHT.

B. SPECIFICATIONS FOR INSTRUMENTATION ITEMS:

1) FLEX TUBE TYPE INTERFACE LIQUID LEVEL CONTROLLER:

Quantity : 2 Nos.

Service : Interface level control between Crude Oil and Water in the Emulsion Treater

Operative Mode: Pneumatic Throttling, Direct

Process connection: 101.6mm (4") ANSI 150 class RF Flange

Max. Working Pressure: 14.06 Kg/Sq.cm, (200 psi)

Working Temperature: 180 Degree F

Enclosure : Weather Proof, IP54 or better.

Supply Pressure : 20 PSI

Supply Connection: 1/4"NPT (F)

Output Connection: 1/4"NPT (F)

Displacer : Horizontal, approx. 3-1/2"X14" (355.6mm) long float type suitable for Oil-Water Interface.

Flex-Tube Material: SS 316

OR

CAGED DISPLACER TYPE INTERFACE LIQUID LEVEL CONTROLLER:

Quantity: 2 Nos.

Service: Interface level control between Crude Oil and Water in the Emulsion Treater

Operative Mode: Pneumatic Throttling, Direct

Process connection: minimum 1" (Inch.)

Max. Working Pressure: 14.06 Kg/Sq.cm, (200 psi)

Working Temperature: 180 Degree F

Enclosure : Weather Proof, IP54 or better.

Supply Pressure : 20 PSI

Displacer : vertical type suitable for Oil-Water Interface.

Torque-Tube Material: SS 316

Make : Fisher-Rosemount /Procon Controls/Norriseal/MASONEILAN/V-Automat

Accessories :

a) Supply pressure gauge (0-30 Psi): 2 nos.

b) Output pressure gauge (0-30 Psi): 2 nos.

c) Air filter regulator (Input: 100 PSI, Output: adjustable): 2 nos.

2) FLEX TUBE TYPE LIQUID LEVEL CONTROLLER:

Quantity : 1 no.

Service : Crude Oil Level Control in the Emulsion Treater

Operative Mode: Pneumatic Throttling, Direct

Process Connection: 101.6mm (4") Gruva-grip type coupling with gaskets, bolts & nuts or flanged type

Max. Working Pressure: 14.06 Kg/Sq. cm (200 psi)

Working Temperature: 180 Degree F

Enclosure : Die Cast Alluminium ,Weather proof, IP54 or better.

Supply Pressure : 20 psi

Supply Connection: 1/4" NPT (F)

Output Connection: 1/4"NPT (F)

Displacer : Approx.3-1/2"x 6" (90x150mm) SS Float

Flex- tube Material : SS 316

Make : Fisher-Rosemount /Procon Controls/Norriseal/MASONEILAN/V-Automat

Accessories:

a) Supply pressure gauge (0-30 Psi): 1 no.

b) Output pressure gauge (0-30 Psi): 1 no.

c) Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no.

3) FLOAT TYPE LIQUID LEVEL CONTROLLER WITH MICROSWITCH:

Quantity : 1 no.

Service : To cut off pneumatic supply to output on detection of low crude oil level in the Emulsion Treater

Operative Mode: Snap Action

Process Connection: 101.6 mm (4") Gruva-grip type coupling with gaskets, bolts & nuts or flanged type

Max-Working Pressure: 21.09 Kg/Sq.cm (300 psi)

Working Temperature: 180 Degree F

Enclosure : Die Cast Aluminium ,Weather Proof,IP54 or better.

Supply pressure : 20 PSI

Supply connection: 1/4"NPT (F)

Output connection: 1/4"NPT (F)

Float : Approx.3-1/2"diameter x 6" (90x150mm) SS Float

Float material : SS 316

Rod length : 14" Standard

Rod Material : Stainless Steel

Micro Valve : Three ports 1/4" NPT (F)

Micro Valve Body Material : Anodized Aluminium or Brass

Body material : Ductile Iron

Make : Fisher-Rosemount /Procon Controls/Norriseal/V-Automat

Accessories:

a) Supply pressure gauge (0-30 Psi): 1 no.

b) Output pressure gauge (0-30 Psi): 1 no.

c) Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no.

4) PRESSURE CONTROLLER (0-10 Kg/Sq.cm):

Quantity : 1 no.

Type: Pneumatic, Indicating with Proportional & Reset Action

General:

Function: Indicating Controller

Mounting: Vertical pipe mount 2"(50 mm) pipe

Housing Material: Glass fibre reinforced polyester/Polyester Plastic/ Die cast aluminium with anti-corrosion and weatherproof protection

Enclosure: Minimum IP53

Maximum Dimension: 270mmX170mmX350mm (LXBXH)

Maximum Weight: 7 Kg

Controller Performance:

Control Mode: Proportional Integral (PI)

Action: Direct/Reverse Action (Controller action should be Field Reversible without any change of parts.)

Auto/Manual Switch: To be provided

Set Point Adjustment: Manual

Supply pressure: 20 psig

Output: 3 to 15 psig

Proportional Band: 10 to 100% of process scale span

Reset: 0.05 to 15 repeats per minute

Repeatability: 0.5% of output span

Unit of process variable display scale: psig & kg/sqcm

General Components:

Service: Gauge Pressure

Sensing Element Type: Bourdon Tube, 316 Stainless steel

Range: Adj. Range: 0 to 100 psi (0 to 7 kg/sqcm)

Process:

Process Fluid: Natural Gas / Hydrocarbon liquid

Process connection: ¼ inch NPT (F) (Bottom Entry)

Air Consumption: 20 scfh maximum

Input connection: ¼" NPT (F) bottom entry.

Output connection: ¼" NPT (F) bottom entry.

Controller Delivery Capacity: 0.2 to 1.0 Bar (3 to 15 Psig)

Make : Fisher-Rosemount/Yokagawa/ABB/OMC/V-Automat

Accessories:

Door lock

Mounting Bracket with clamp & nuts for 2" pipe

Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no.

2", 1/4" 0 to 30 psi Supply Gauge: 1 no.

2", 1/4" 0 to 30 psi Output Gauge: 1 no.

5) PNEUMATIC TEMPERATURE CONTROLLER WITH THERMOWELL:

Quantity : 1 no.

Type : Pneumatic, Indicating with Proportional & Reset Action

Process Fluid : Natural Gas

Sensing Element : Filled system

Range : 0 to 100 Deg C (32 to 212 Deg F)

Accuracy : +/- 1.0% of full scale

Bulb Material : 316 SS

Bulb Immersion Length: 12 inch (300 mm)

Capillary Length : 15 feet (4.5 m)

Thermowell Material : 316 SS

Thermowell Connection: ½ INCH FNPT x 1 INCH NPT (M)

Output Action : Direct/Reverse selectable

Proportional Band: 10 to 100% of process scale span

Reset: : 0.05 to 15 repeats per minute

Supply : 20 psi

Connection : Bottom connected, ¼ inch.NPT

Air Consumption : 0.2 scfm maximum

Output Pressure : 3 to 15 psi

Mounting : Vertical pipe mount

Scale size : 160 mm

Pointer : SP and PV on the same linear scale

Repeatability : Minimum 0.5%

Housing : Glass fibre reinforced polyester/Polyester Plastic/ Die cast aluminium with anti-corrosion and weatherproof protection,IP53 or better.

Control : Internal Auto/Manual

Temperature Elements: Precision wound type spiral

Make : Fisher-Rosemount/Procon Controls/Yokagawa/ABB/OMC/V-Automat

Accessories:

Door Lock

Mounting bracket with clamp & nuts for 2 inch pipe

Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no.

2", 1/4" 0 to 30 psi Supply Gauge: 1 no.

2", 1/4" 0 to 30 psi Output Gauge: 1 no.

6) TEMPERATURE GAUGE WITH THERMOWELL:

Quantity : 2 nos.

Temperature Range : 0 - 100°C

Thermowell Connection : 1" NPT

Insertion Length : 150 mm (6")

Type : Bimetallic/Mercury filled

Sensing Element Connection: 1/2 INCH NPT

Material of construction: All SS

Accuracy : $\pm 0.5^{\circ}\text{C}$

Make : Wika/Odin/Waaree

7) PRESSURE GAUGES WITH ISOLATION VALVES (2 NOS.):

Dial size : 150 mm (6") Minimum

Range : 0 - 10 kg/cm²

Pressure Element : 55 Bourdon Tube

Material of Construction: All SS

Accuracy : $\pm 1\%$ of reading

End Connection : 1/2 INCH NPT

Isolation Valves : Required, 1/2 INCH NPT (F), SS Ball valve

Make : Wika/Odin/Waaree

8) LOW OIL LEVEL ALARM SWITCH:

A change of liquid level correspondingly travels the float to extreme level UP and DOWN.

This movement of float in turn causes a magnet to move into the proximity of Micro Switch, resulting in switch actuation.

Medium: liquid, crude oil.

Switch Housing Aluminum Alloy

Service : Level alarm in BMS

Operative Mode: Snap Action, maximum rating 5A

Process connection: 2" ANSI 150 class RF Flange

Electrical Connection: 1/2"NPT

Float & Linkage 316 SS / 304 SS

Max. Pressure 14.06 Kg/Sq.cm, (200 psi) Max.

Working Temperature: 180 Degree F

Power Supply: 24 DC

IP: 65 & flameproof to gas Gr.IIA, IIB or IIC,Zone-1

Statutory approval: As per OMR-2017 (Ref special note point: IX

Note: Bidder may also provide cage type level switch

9) HIGH OIL TEMPERATURE SWITCH WITH THERMO WELL:

Service: High Temperature alarm in BMS
Enclosure: Die cast Aluminium, weatherproof IP: 65 & flameproof to gas Gr.IIA, IIB or IIC, Zone-1
Range: 0 to 100 Deg C (32 to 212 Deg F)
Sensor: Vapour Pressure / Gas filled thermal system actuating a 316L SS Bellows
Wetted parts: 316 SS bulb
Repeatability + 1% FSR
Connection: To Thermowell
Thermo well Material : 316 SS
Thermo well Connection: ½ INCH FNPT x 1 INCH NPT (M)
Power Supply: 24 DC
Electrical Connection: ½"NPT
Switching: SPDT micro switch, maximum rating 5A
Statutory approval: As per OMR-2017 (Ref special note point: IX)

10) LOW & HIGH GAS PRESSURESWITCH (2 NOS.):

Quantity: Individual
Service : Low & High Gas Pressure alarm in BMS
Enclosure: Die cast Aluminium, weatherproof IP: 65 & flameproof to gas Gr.IIA, IIB or IIC, Zone-1
Range : 0 to 40psi
Enclosure: Die cast Aluminium, weatherproof IP: 65 & flameproof to gas Gr.IIA, IIB or IIC, Zone-1
Power Supply: 24 DC
Electrical Connection: ½"NPT
Switching: SPDT micro switch, maximum rating 5A
Process connection: 1/4" NPT(F)
Scale Accuracy: ± 5% FSR
Sensor: Phosphor Bronze / 316L SS bellows or 316L SS diaphragm.
Ambient Temp.: (-) 10°C to (+)50°C
Statutory approval: As per OMR-2017 (Ref special note point: IX)

11) SIGHT GLASS WITH DRAIN COCKS:

Liquid level gauge glass assembly (tubular type/magnetic type) for indication of interface level complete with cocks and gauge glass shall be enclosed type and suitably protected to avoid external damage.
Quantity: 3 Nos.

12) TUBES AND FITTINGS (1 LOT):

Seamless SS316 instrumentation tubes and double compression double ferrule fittings for the pneumatic connections.
Make: Swagelok, Parker, Sanvik

13) TECHNICAL SPECIFICATIONS FOR BURNER MANAGEMENT SYSTEM FOR EMULSION TREATERS (ET):

The BMS controller will be used to primarily control and monitor the complete ignition and firing sequence of the burners installed in the ET. It will monitor the presence of pilot flame and will shut off the fuel gas flow if the flame goes out. An auto re-light will try to re-ignite the burner up to three times if there is a flame failure. There will be provisions for dedicated alarm inputs for low fluid level, high bath temperature and low as well as high gas pressure that can be user configurable. The burners shall be designed with atmospheric (natural draft) appliances up to 10,000,000 Btu/H and shall be suitable to functioning with the following quality of natural gas available at site:

Composition of Fuel Gas:

CONSTITUTION	Range by % VOLUME
Methane	85.7 - 93.52
Ethane	2.45 - 6.55
Propane	1.28 - 3.12
Nitrogen	0.53 - 1.21
Carbon-dioxide	0.01 - 0.57
Iso-Butane	0.31 - 0.75
N-Butane	0.4 - 1.14
Iso-Pentane	0.19 - 0.47
N-Pentane	0.17 - 0.38
Hexane	0.34 - 1.16
Gravity	0.6204 -0.6919
Gross Calorific Value	9636.8- 10590.8 Kcal/SCUM
Net Calorific Value	8704.3- 9595.4 Kcal/SCUM
Moisture content:	21.0 - 120.0 LB/MMCFT (336.0-1992.0 KG/MMSCM)

Technical Specifications for BMS:

- 1) Approvals CSA: Class 1 Division 2 Groups C & D. T4 (BMS Controller) - CSA: C22.2 No. 199 (Combustion Safety Controls and Solid-State Igniters for Gas and Oil Burning Equipment)
- 2) Operating Temperature: -40 to +50°C.
- 3) Maximum Test Press: 25 PSI
- 4) Operating Fuel Gas Pressure: 10 Psi(Max)- Natural Gas
- 5) Housing and Parts Materials: Aluminium/SS.
- 6) Power supply: 230VAC available at site. However, BMS system shall be operable at 12- 30VDC power.
- 7) Display type: LCD/Vacuum Fluorescent Display (VFD) with Full Text Message.
- 8) Operator control: Industrial positive action tactile feedback buttons (Start, Stop, Menu etc.)
- 9) Pilot Nozzle : Perforated Tip
- 10) Ignition Module : The Ignition module shall be separately installed in a non-hazardous location, inside the burner housing or other non- hazardous location to meet the requirements for a certified Combustion Safety Control as required by B149.3.

11) Solenoid ratings: 12 VDC or 24 VDC
12) Ignition cable: 10 feet min.
13) Communications RS 232/485 (Modbus) Remote Communications for monitoring and on/off control only. Multidrop communications via RS485.
(Optional)

14) Safety alarms:

1 x Low Pressure alarm
1 x High Pressure alarm
1 x Low Liquid Level alarm
1 x High Temperature alarm
1 x Flame failure alarm

14) PILOT BURNER (2 NOS.):

Connection : 1/2 inch NPT

Function : To provide pilot flame in the Natural gas fired Heater vessel

15) PILOT GAS REGULATOR (2 NOS.):

Function : To provide regulated gas supply to the Pilot Burner

Process connection : 6mm (1/4inch)

Maximum Inlet Pressure: 100 psi

Outlet Pressure : Adjustable full range

16) FUEL SHUT-OFF VALVE (1 NO.):

Function : Fuel shut-off in case of pilot flame failure in Natural gas fired Heater vessels

Body material : Ductile Iron A-395

End connections : 1" NPT (F)

Case material : Cast Aluminium

Diaphragm material : Nylon reinforced Buna-N diaphragm

Max. Working Pressure: 100 PSI

Packing : Standard O-Ring, Buna-N

Stem material : 303 Stainless Steel

Plug type : Soft plug for tight shut-off

Note: The said valves shall be provided with manual isolation & bypass valves.

17) TEMPERATURE CONTROL VALVE WITH POSITIONER:

Function : Fuel control of the main burner gas line in conjunction with the temperature controller.

Body material : Ductile Iron A-395

End connections : 1" NPT (F)

Case material : Cast Aluminium

Diaphragm material : Nylon reinforced Buna-N diaphragm

Max. Working Pressure: 100 PSI

Packing : Standard O-Ring, Buna-N

Stem material : 303 Stainless Steel

Plug type : Soft plug for tight shut-off

Note: The said valves shall be provided with manual isolation & bypass valves.

18) MAIN FUEL GAS REGULATOR (1 NO.):

Input Supply : 50 - 100 psi

Output : 0- 30 psi adjustable

Connection : 1" NPT (F)

19) PRESSURE GAUGES IN MAIN FUEL LINE BEFORE AND AFTER REGULATOR:

Range : 0 -100 psi

Dial Size : 100 mm (4")

Connection Size : 1/2 INCH

Material of Construction: All SS

20) PRESSURE GAUGES IN PILOT FUEL LINE AFTER REGULATOR:

Range : 0- 20 psi

Dial Size : 100 mm (4")

Connection Size : 1/4 INCH

Material of Construction: All SS

C. SPECIFICATION OF FLAME ARRESTED BURNER [(Qty: 2 NOS. for 01 No. Emulsion Treater]:

Flame Arrested Burner Assembly, comprising of Flame Arrestor Housing complete with necessary burner equipment/accessories i.e. main and pilot burners, mixers etc., suitable for abovementioned EMULSION TREATER, as detailed below:

1. The Flame Arrested Burner Assembly shall be to suit the following conditions:

- a. Furnace capacity: 1,125,000 BTU/Hr. (Net)
- b. Temperature of Bath: 26 Deg.C to 90 Deg.C
- c. Calorific value of natural gas: 1000 BTU/ft³
- d. Burner Gas Pressure: 0.7 - 1.05 Kg/Cm² (10-15psi)

2. The Flame Arrestor Housing shall be as detailed below:

a. Fire Tube : 'U' type Fire Tube, 12"dia, as per drawing no. OIL/1582(Copy attached).

b. The flame arrestor housing shall be "O" style, 2-piece, hinged (one no left hinged and one no right hinged, total two nos for each ET), Flame cell dia 26", suitable for fire tube dia 12", of Make & model Flameco SB26/18-12 or Wenco SB26/18-12, or Black Gold Rush FA-26-12-I-HL&HR.

c. The flame arrestor housing shall be made out of such material that will withstand outdoor field conditions like rains, ambient temperature of minimum 5 deg.C and maximum 45 deg.C and should not crack or get damaged due to rapid uneven cooling / heating. Gaskets, wherever used, should be gas tight, so that leaks do not occur that can impair the safety of the installation.

d. The flame arrestor housing shall be provided with necessary lifting lug.

e. The flame arrestor housing shall be provided with necessary sight glass to check the pilot flame.

f. The flame arrestor housing shall be provided with couplings of different sizes on body of the flame arrestor for fuel gas supply connections.

g. A separate spool or extended flame arrestor neck shall be required to be fitted with the flame arrestor to avoid fouling with the Emulsion Treater chimney.

h. The orientation of the flange bolting of the flame arrestor housing shall be suitable for 'U' type Fire Tube as per drawing no. OIL/ 1582(Copy attached).

3. The main burner shall be as detailed below:

a. Mixture Assembly: 101.6 mm (4") Eclipse Model: H-16 or equivalent.

b. Burner Nozzle : 101.6 mm (4") sticktite Model: ST-216-84 or equivalent.

c. Burner Orifice : 6.75 mm (17/64").

d. Burner Pipe Nipple : 101.6 mm (4") of suitable length

4. The pilot burner shall be as detailed below:

a. Pilot Burner Assembly: 6.35mm (1/4") Wenco Series 1000 or Equivalent

b. Pilot Orifice size : 70

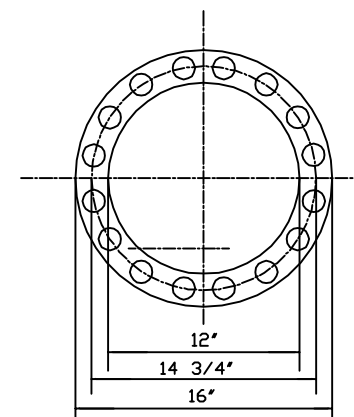
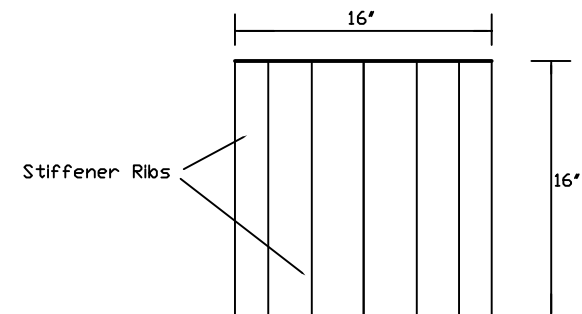
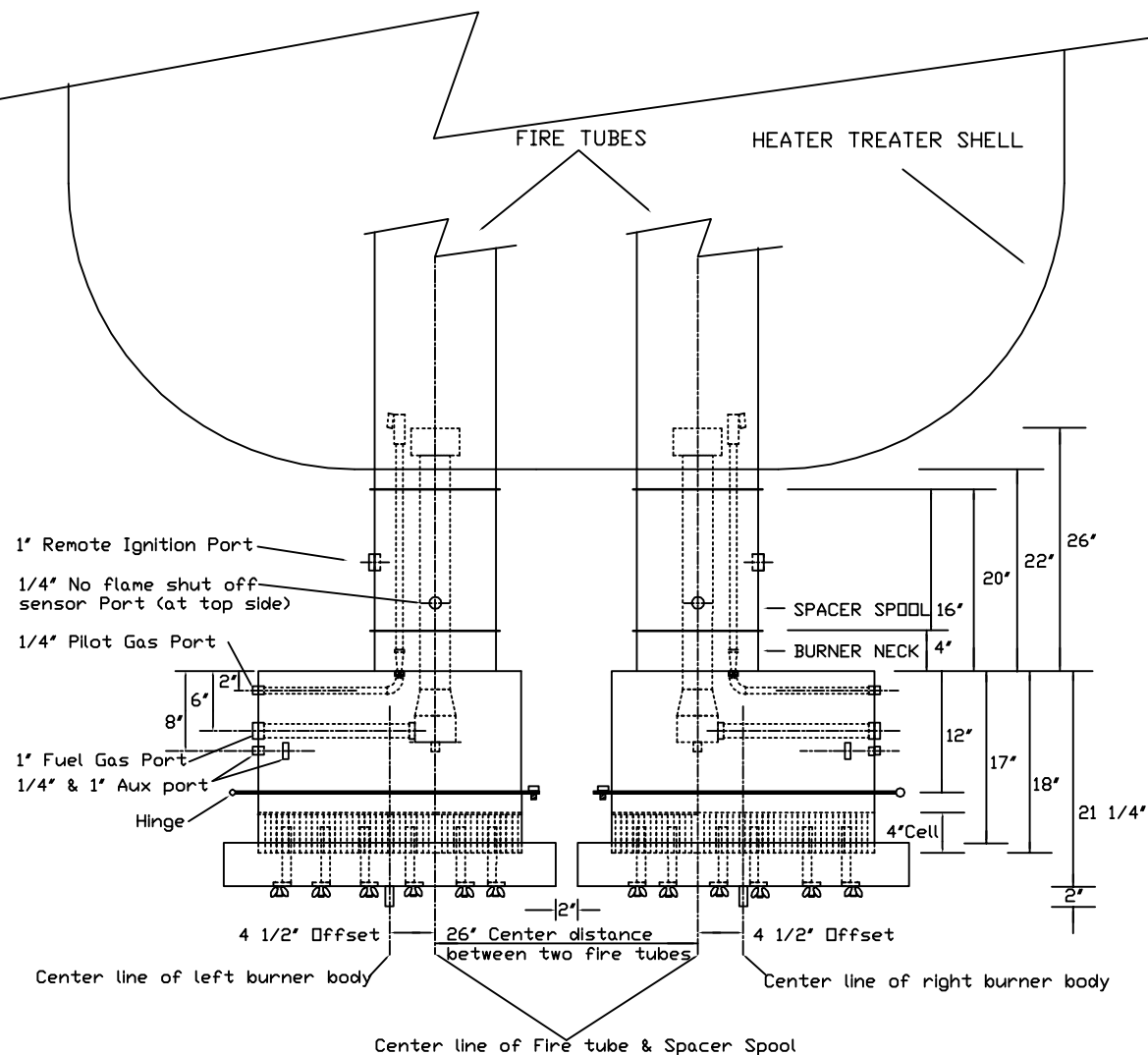
c. Pilot Pipe Nipple : 6.35mm (1/4") of suitable length.

5. Please refer to Special Terms & Conditions for more information.

6. Price of Flame Arrested Burner should be included with main item.

FLAME ARRESTED BURNER

SPACER SPOOL



FLANGE DETAILS OF SPACER & BURNER NECK
16 Nos equally spaced holes of size 9/16"
drilled on 14 3/4" B.C.D & 16" O.D Flange

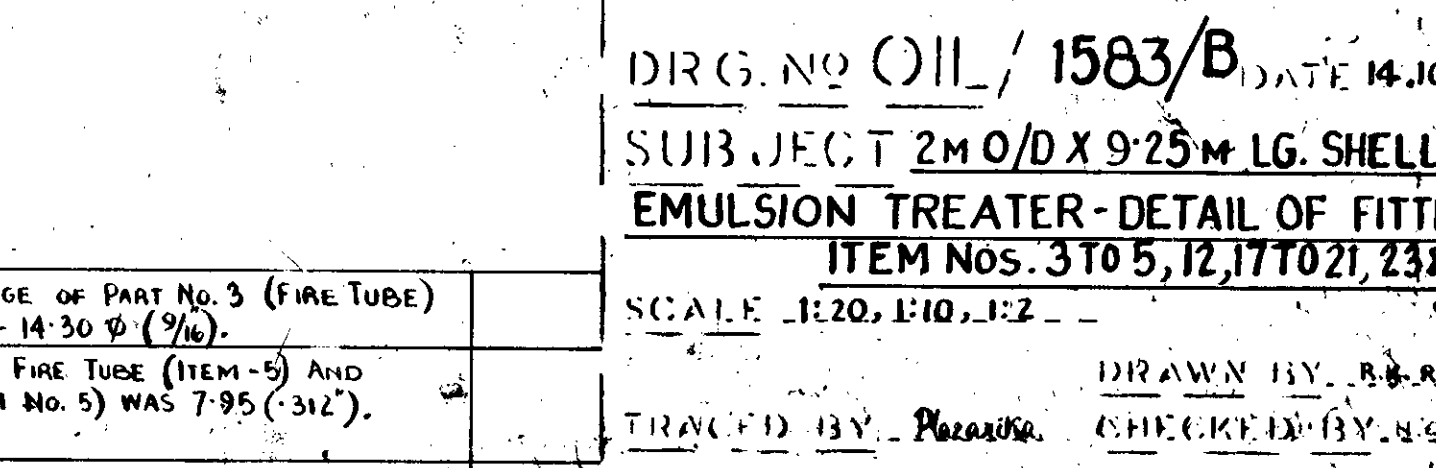
NOTES : 1) Not To Scale
2) Refer Specification

OIL INDIA LIMITED
PROD (OIL) DEPTT.
DULIAJAN 786602

FLAME ARRESTED BURNER
FOR EMULSION TREATER

DR NO

OIL/PDNO/P&D/015/A-01/01



FOR GENERAL ARMY SEE DRG. NO. 1581
FOR SECTIONAL VIEWS " " " " 1582

ALL DIMENSIONS IN MILLIMETRE.
RETRACTED ON 9-1-65

OIL INDIA LIMITED
DULAJAN

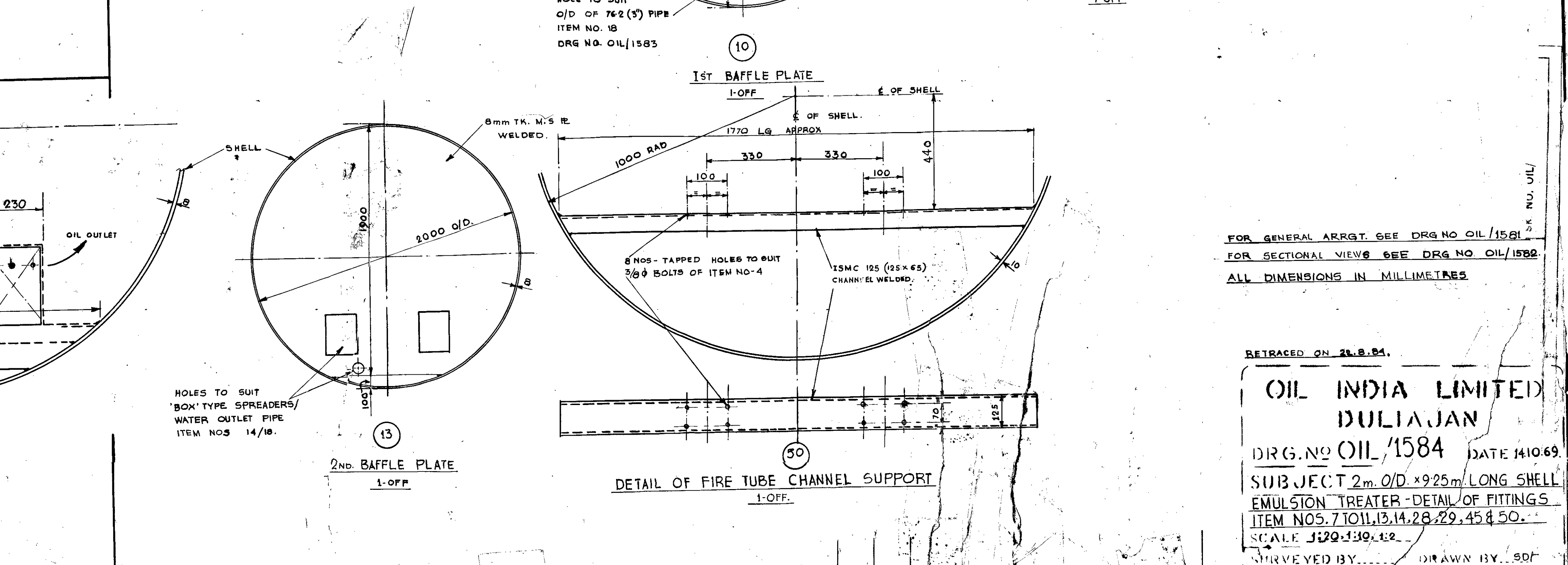
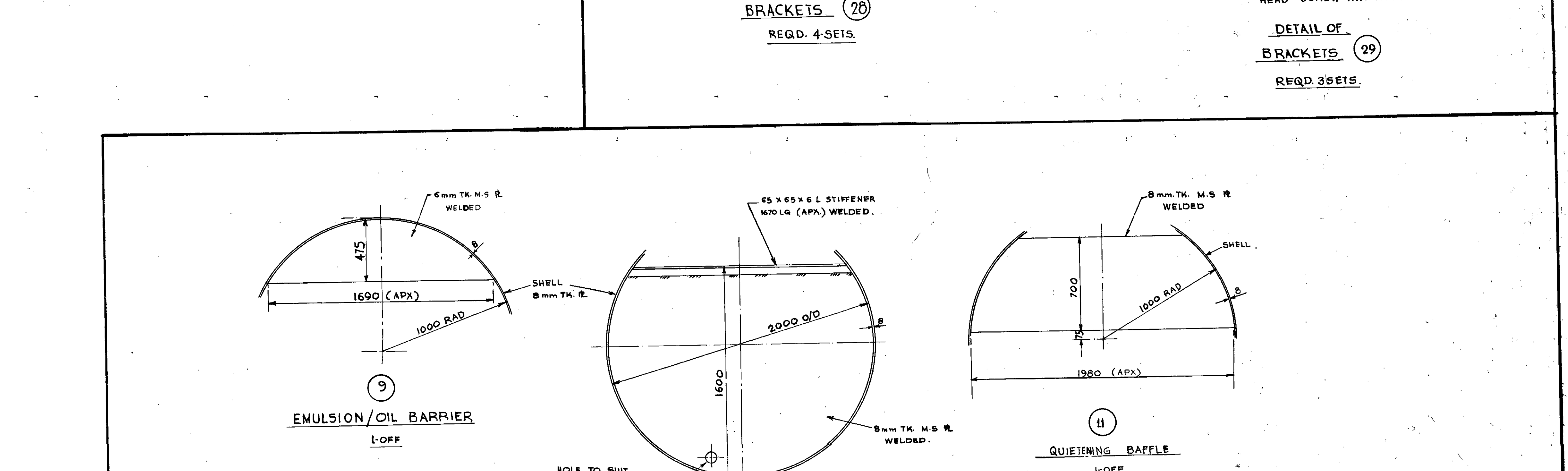
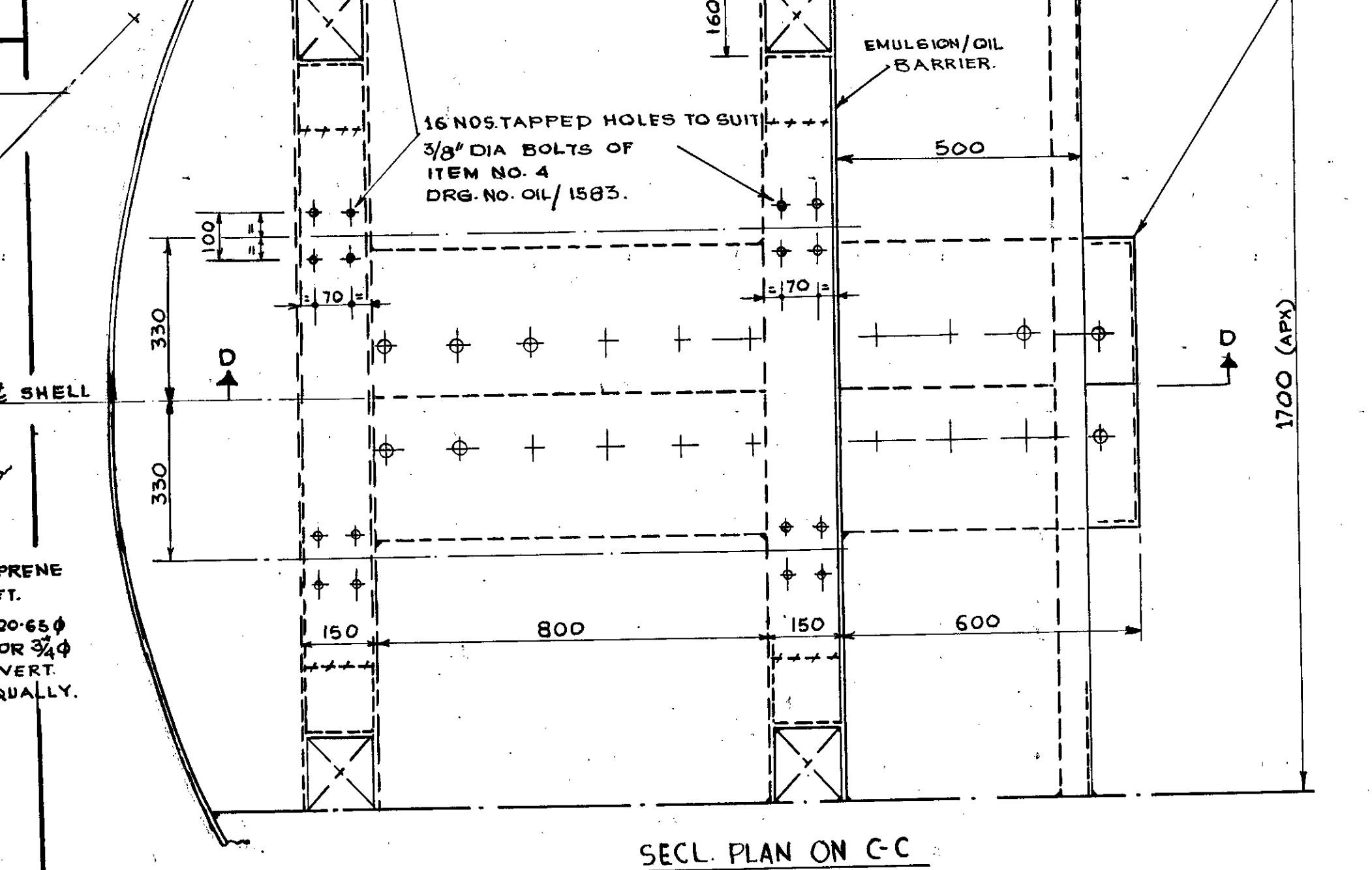
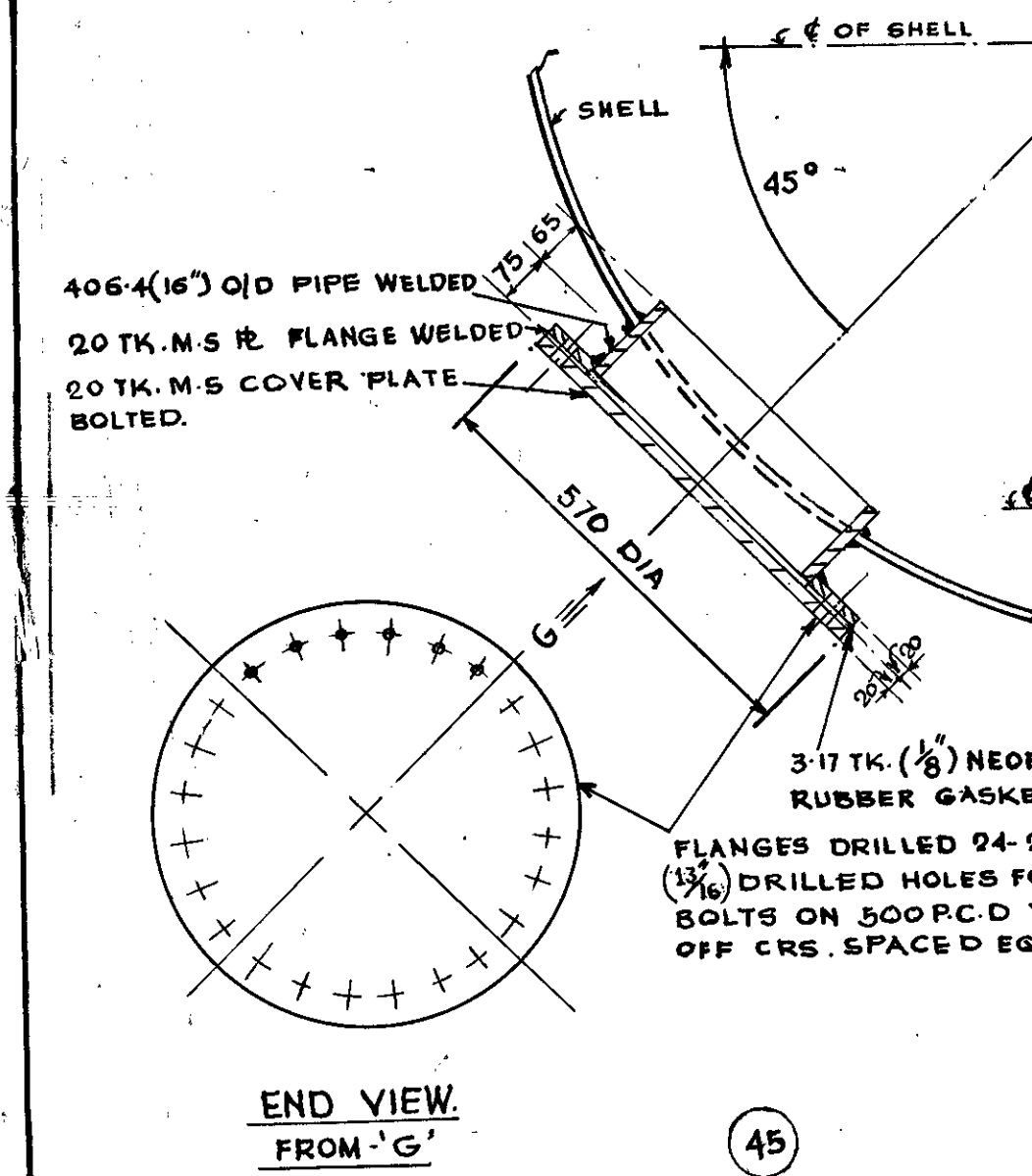
DRG. NO OIL/ 1583/B DATE 14.10.69

SUBJECT 2M/DX 925M LG. SHELL
EMULSION TREATER-DETAIL OF FITTINGS
ITEM Nos. 310.5, 12, 17, 202, 232, 233

SCALE 1:20, 1:10, 1:2

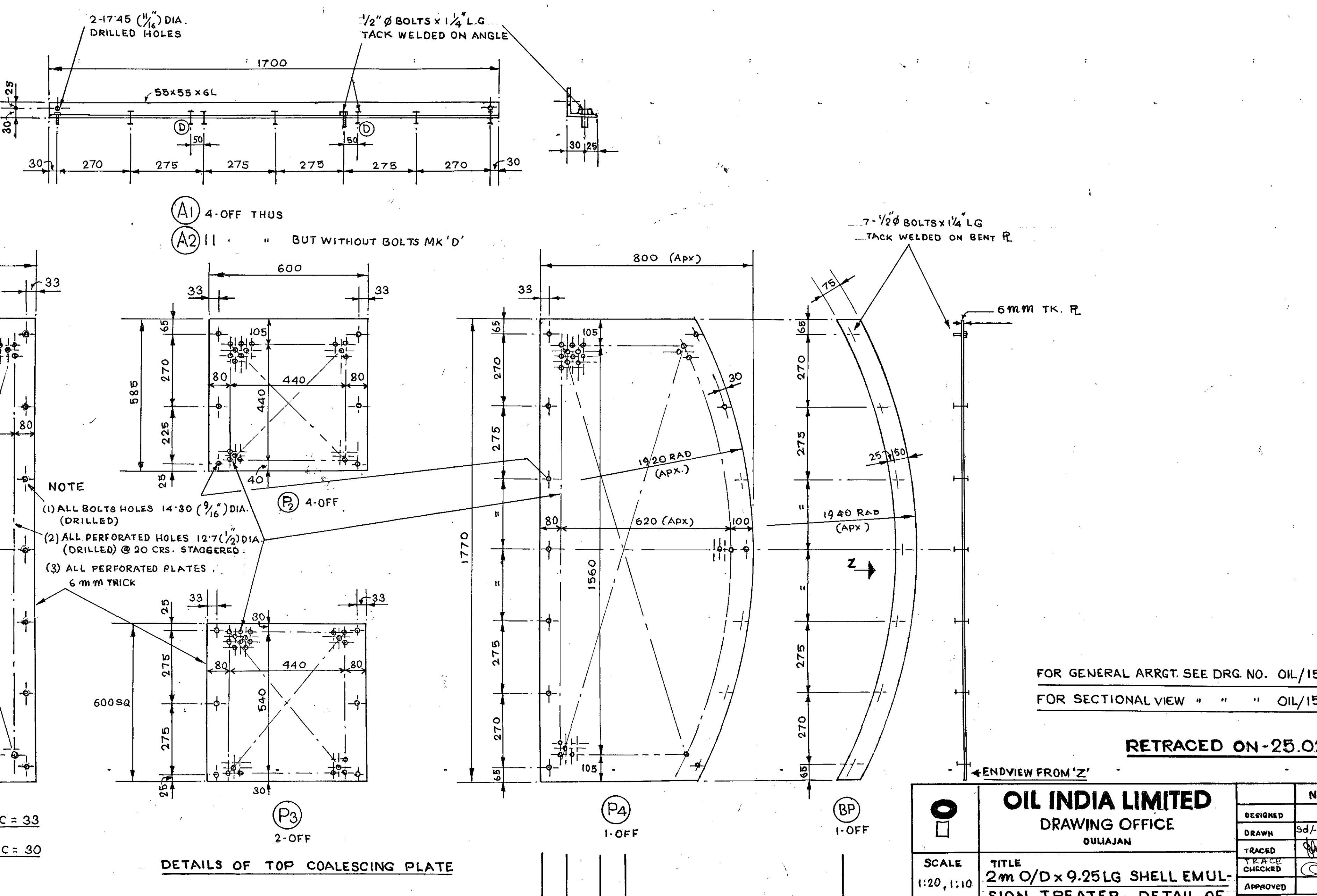
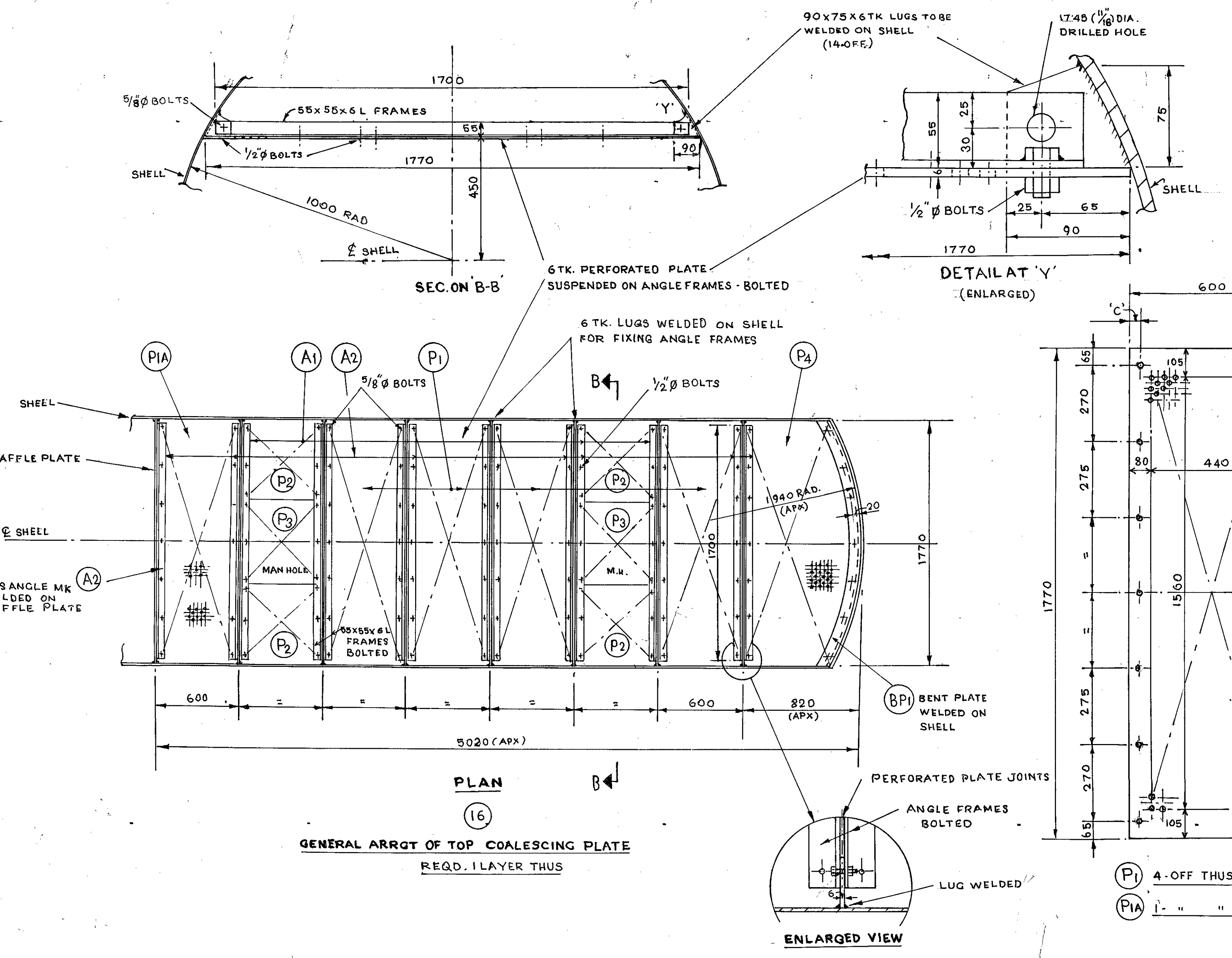
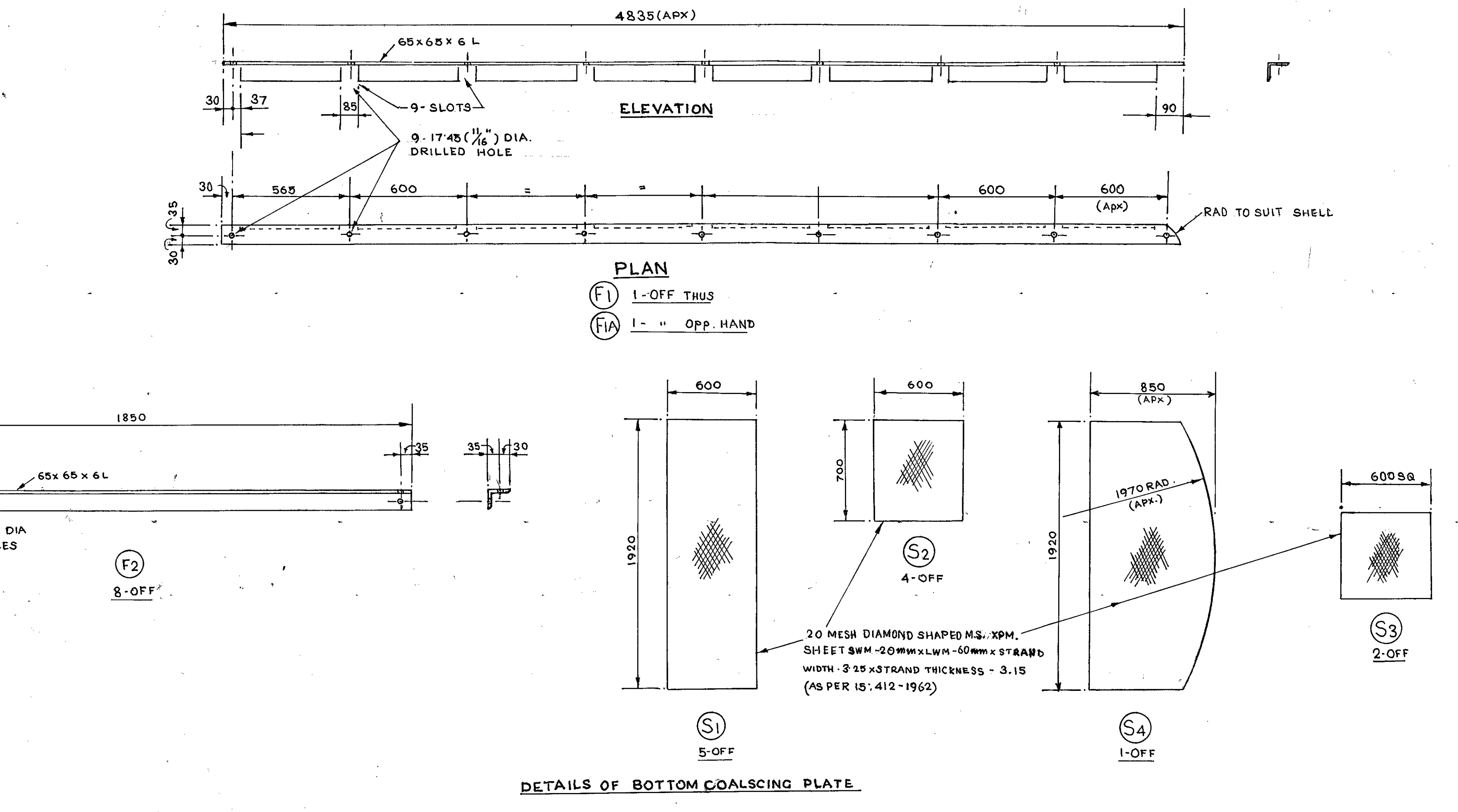
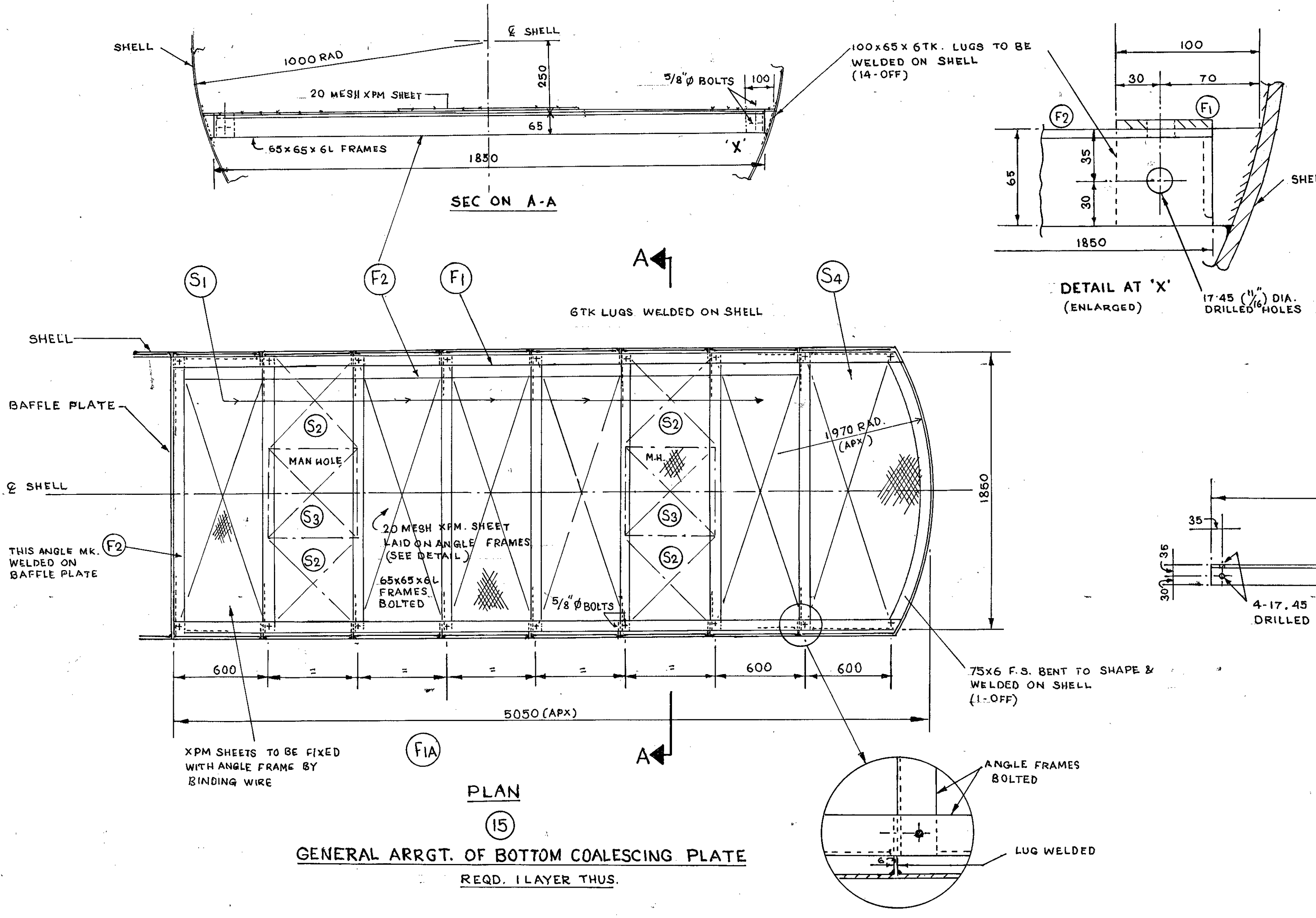
DRAWN BY: B.B. ROY
CHECKED BY: N.S. B.

TRACED BY: Plasencia
TRACED BY: Approved



SURVEYED BY _____ DRAWN BY SDT
 TRACED BY *Hawl* CHECKED BY _____
 TRACE CHECKED BY *W. D. D.* APPROVED BY _____

REV.	DATE	DESCRIPTION	SIC	TRACE CHECKED BY	APPROVED BY



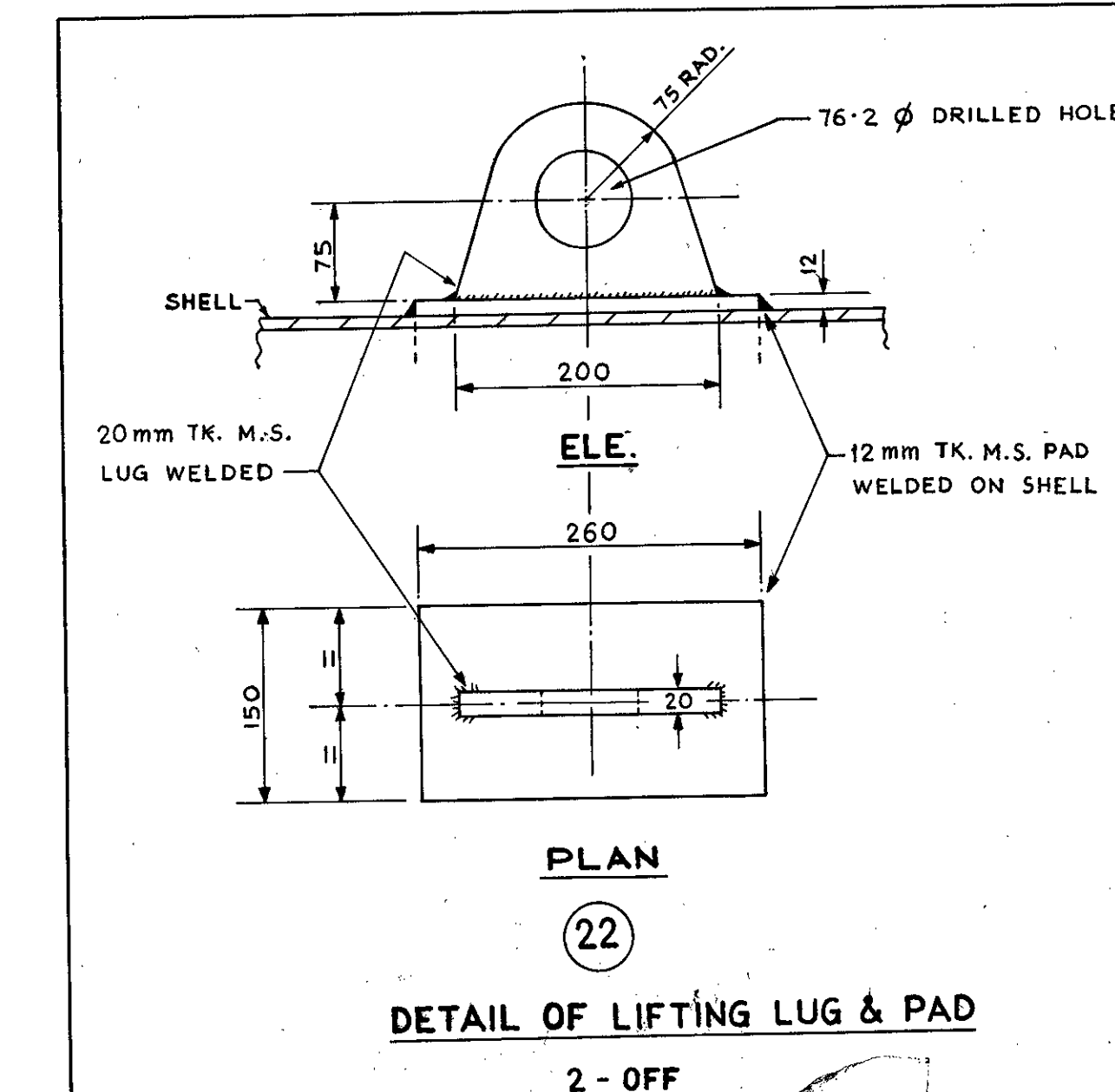
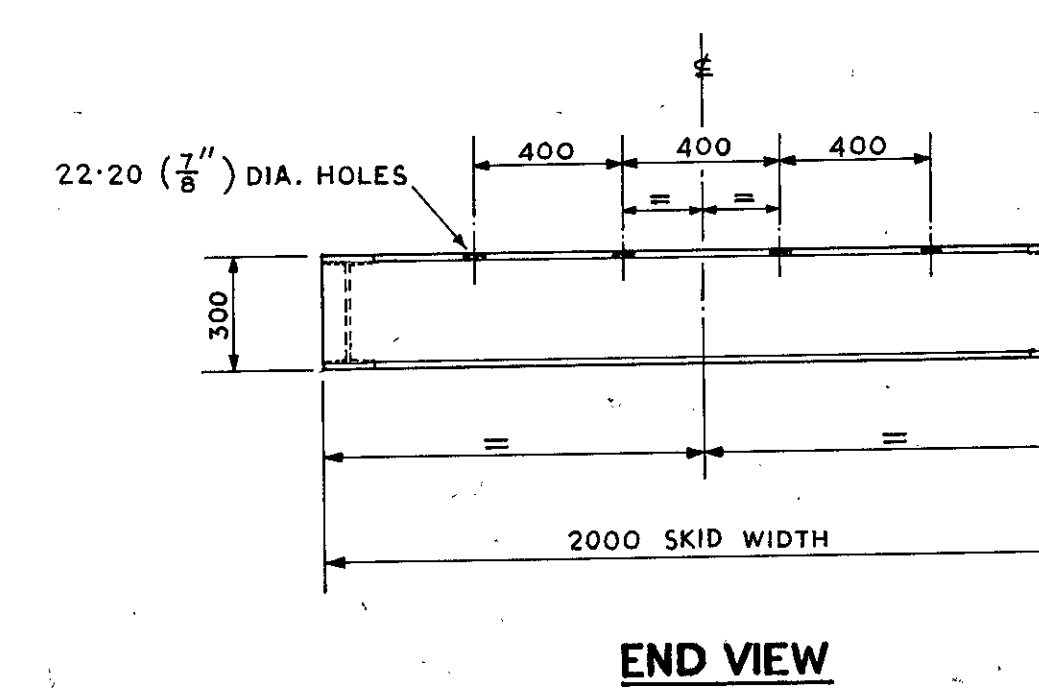
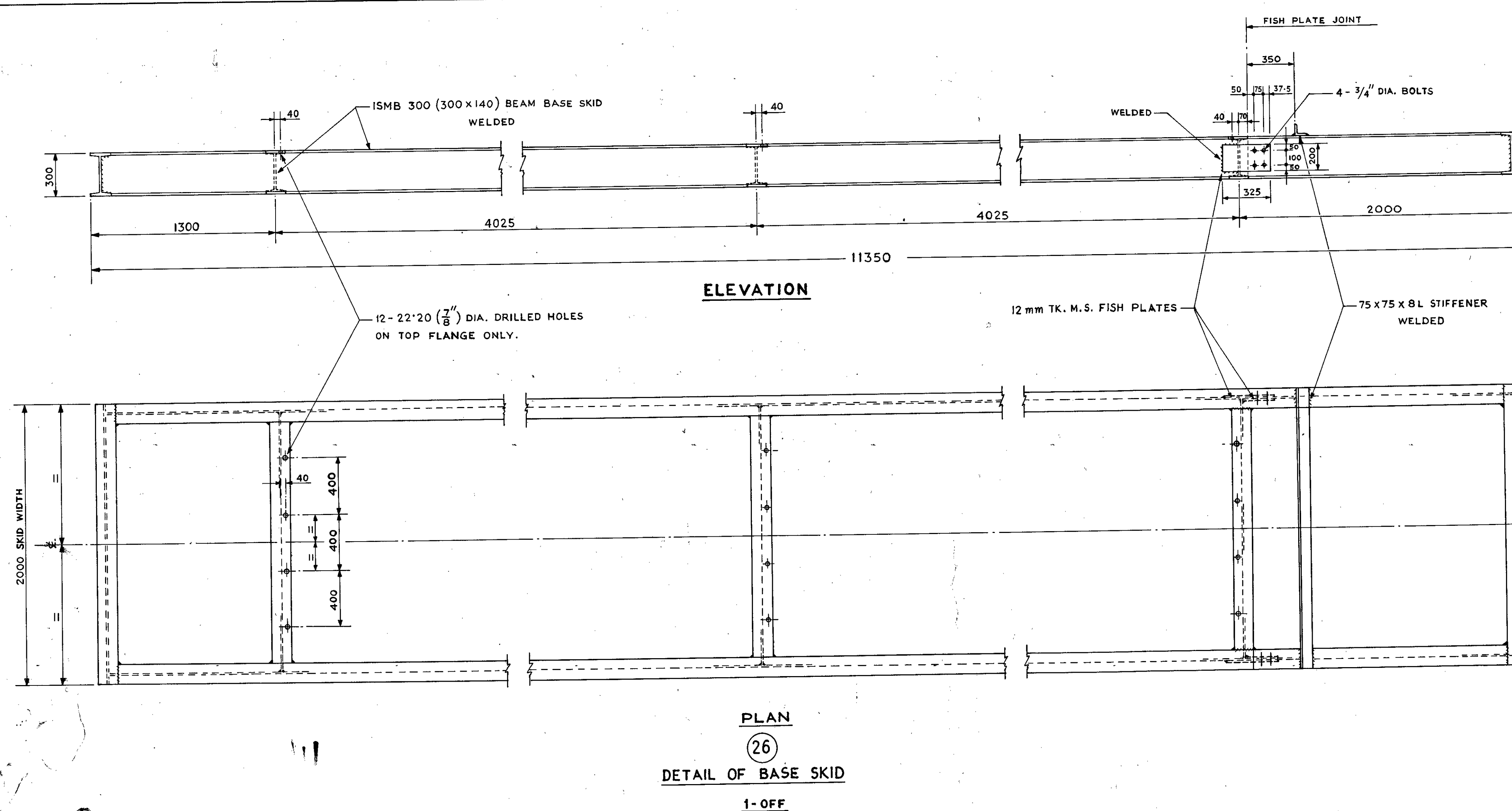
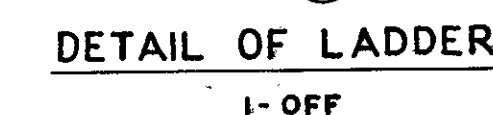
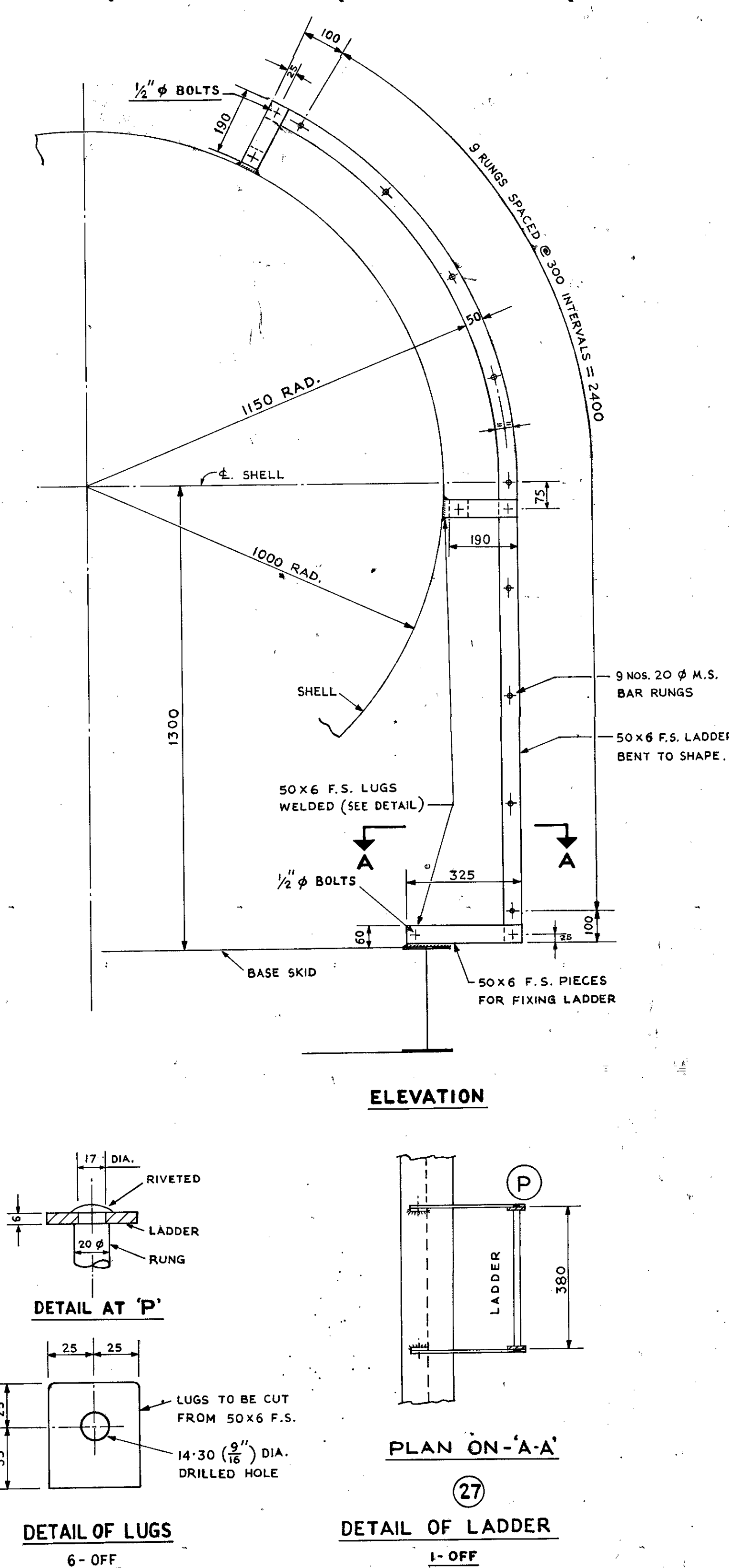
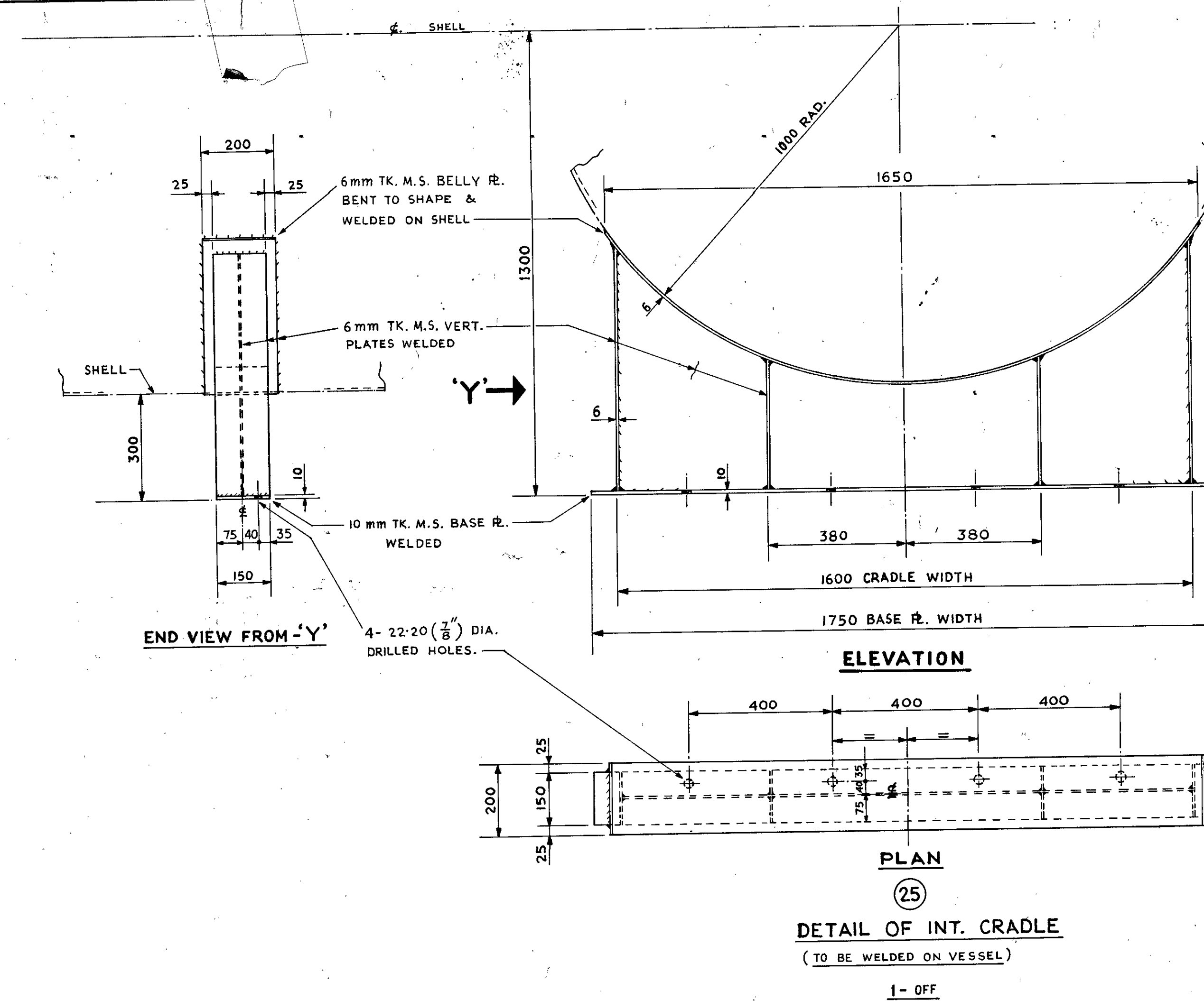
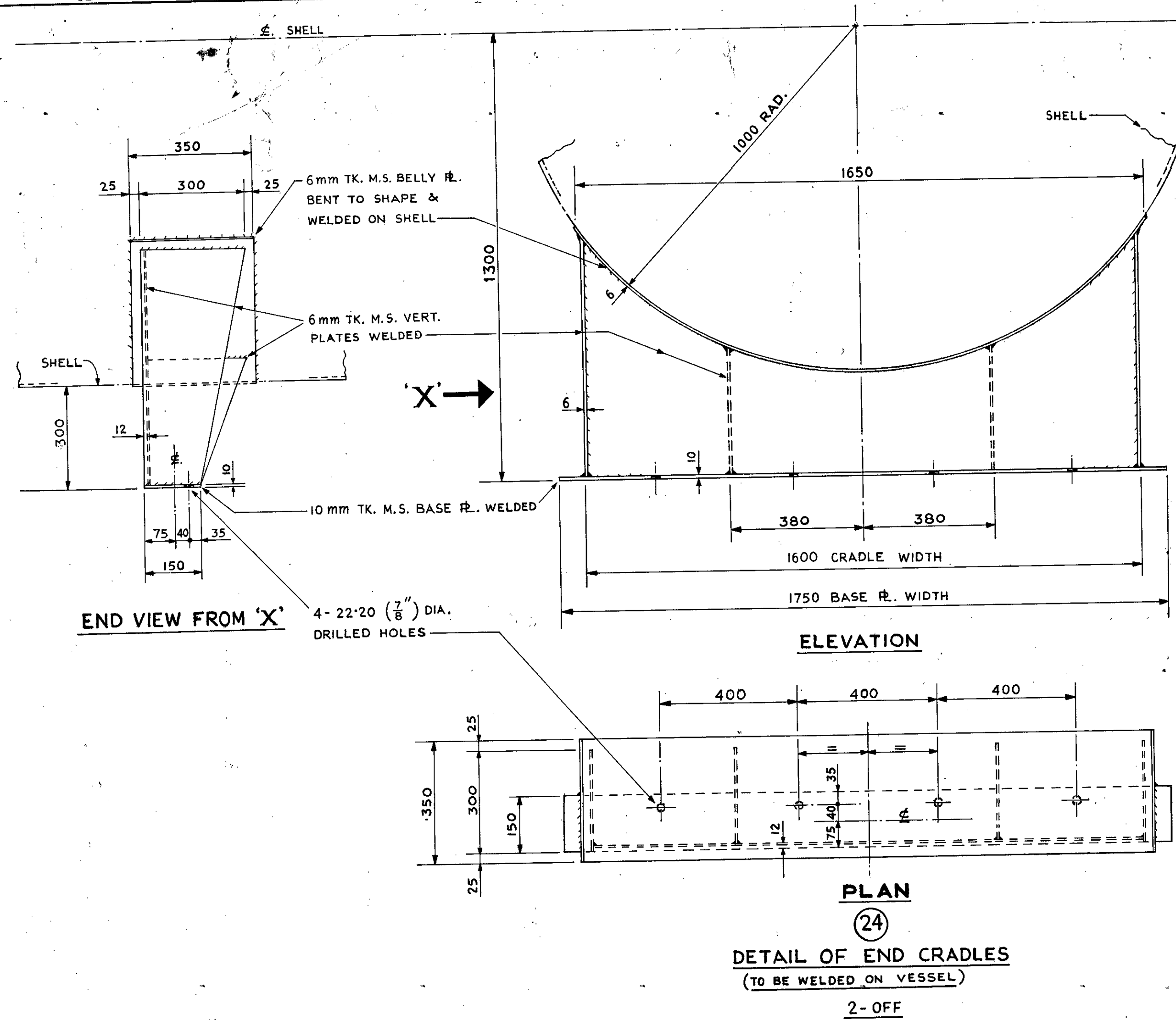
ALL DIMENSIONS ARE IN MILLIMETRES

FOR GENERAL ARRGT. SEE DRG. NO. OIL/1581
FOR SECTIONAL VIEW " " " OIL/1582

RETRACED ON-25.03.08

OIL INDIA LIMITED		NAME	DATE
DRAWING OFFICE		DESIGNED	
DULAJAN		DRAWN	SA/R.K.R. 14.10.69
		TRACED	
		CHECKED	25.03.08
		APPROVED	
DRG. NO.			
OIL/1585			
ITEM NO-15 & 16			

REV. DATE ZONE SHEET RECORD APPROVED





FOR GENERAL ARRGY. SEE DRG. NO. OIL/1581
FOR SECTIONAL VIEWS SEE DRG. NO. OIL/1582
ALL DIMENSIONS IN MILLIMETRES

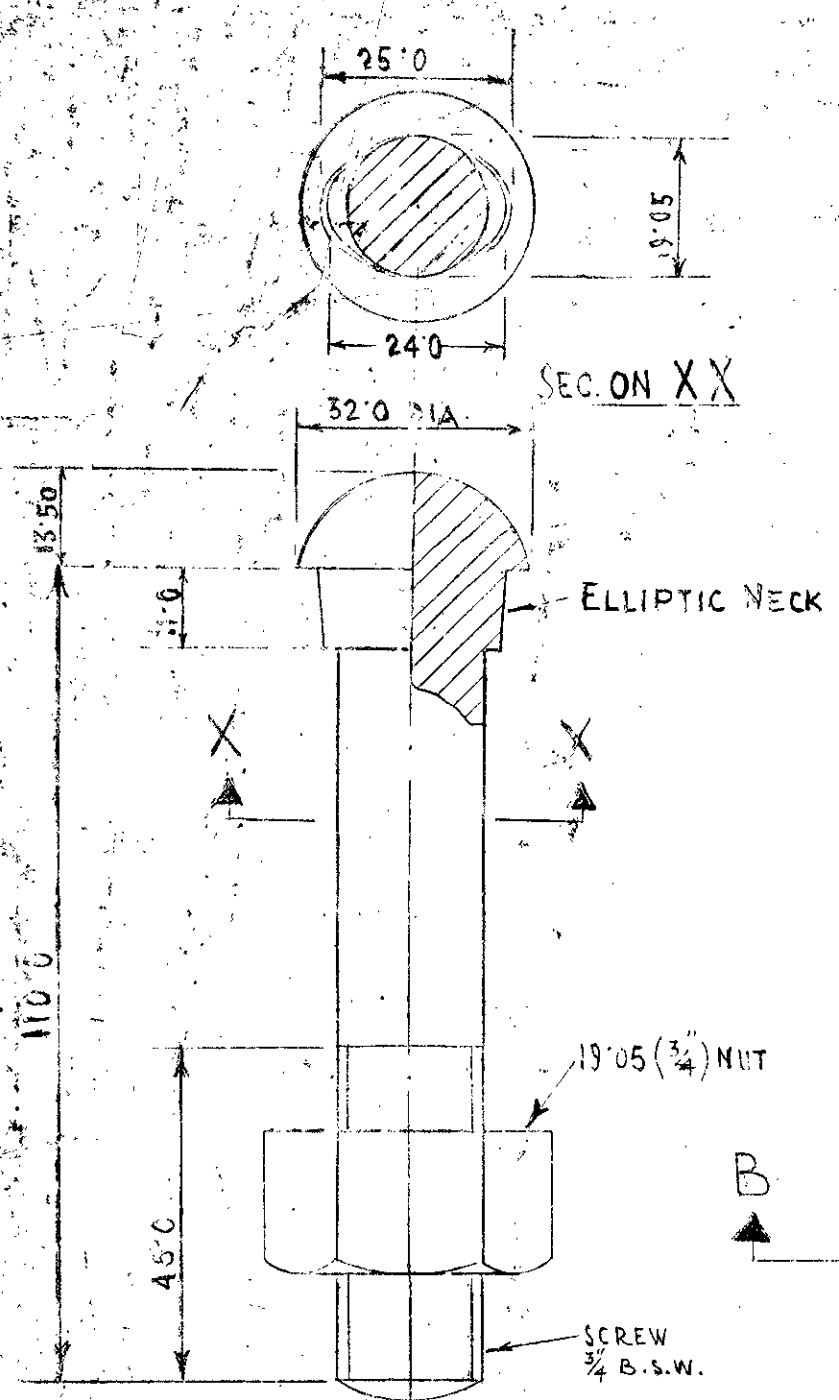
FOR SECTIONAL VIEWS SEE DRG. NO. OIL/1582

ALL DIMENSIONS IN MILLIMETRES

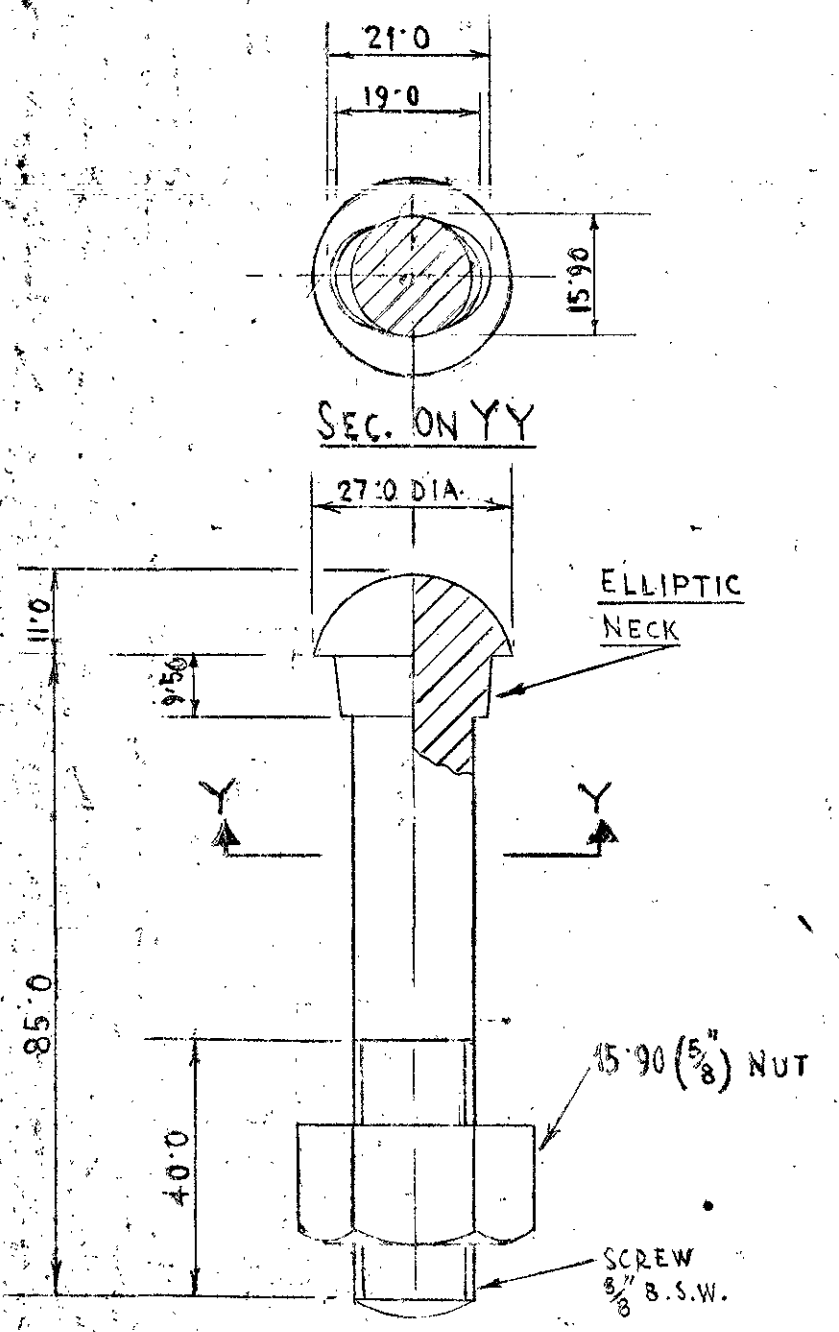
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RETRACED ON 17-11-95.

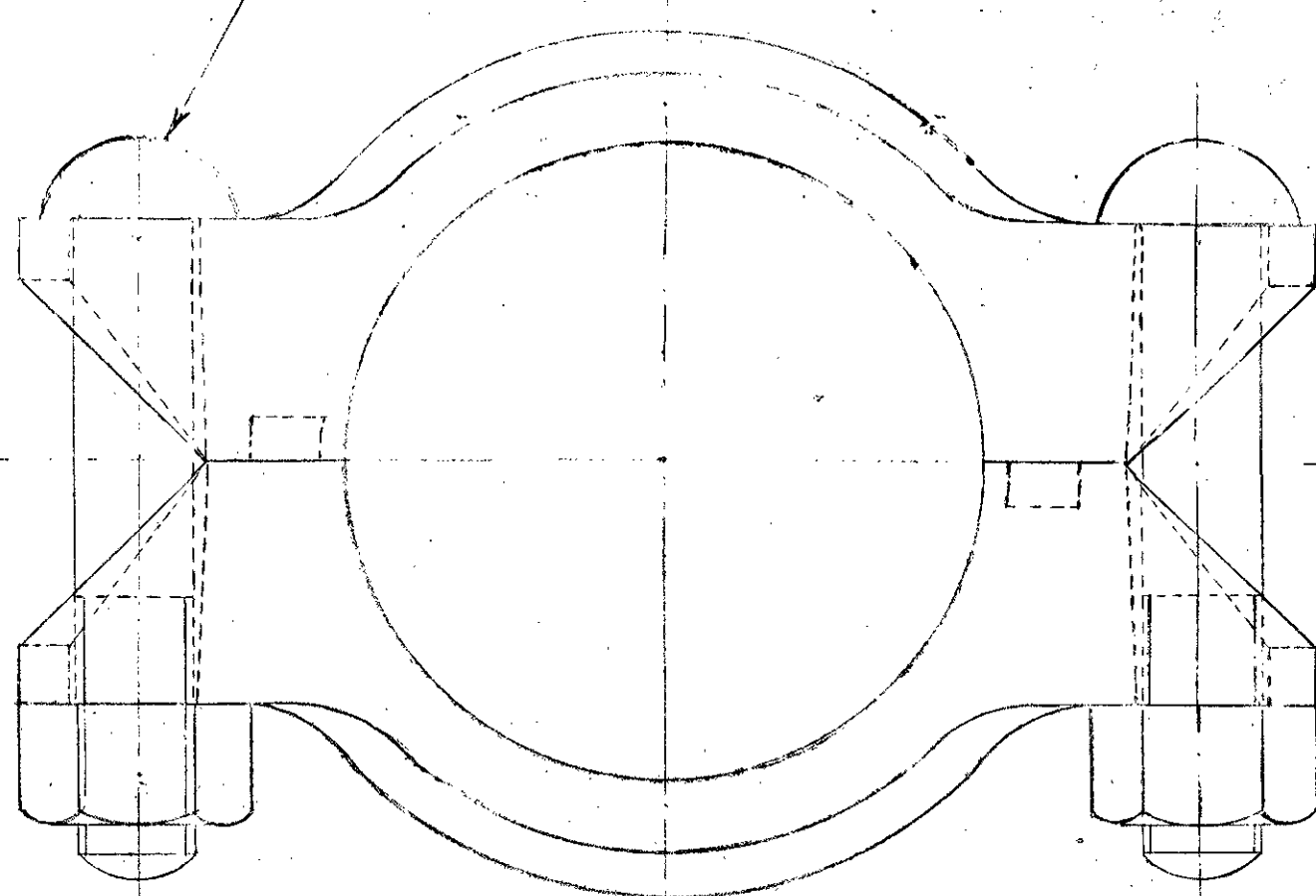
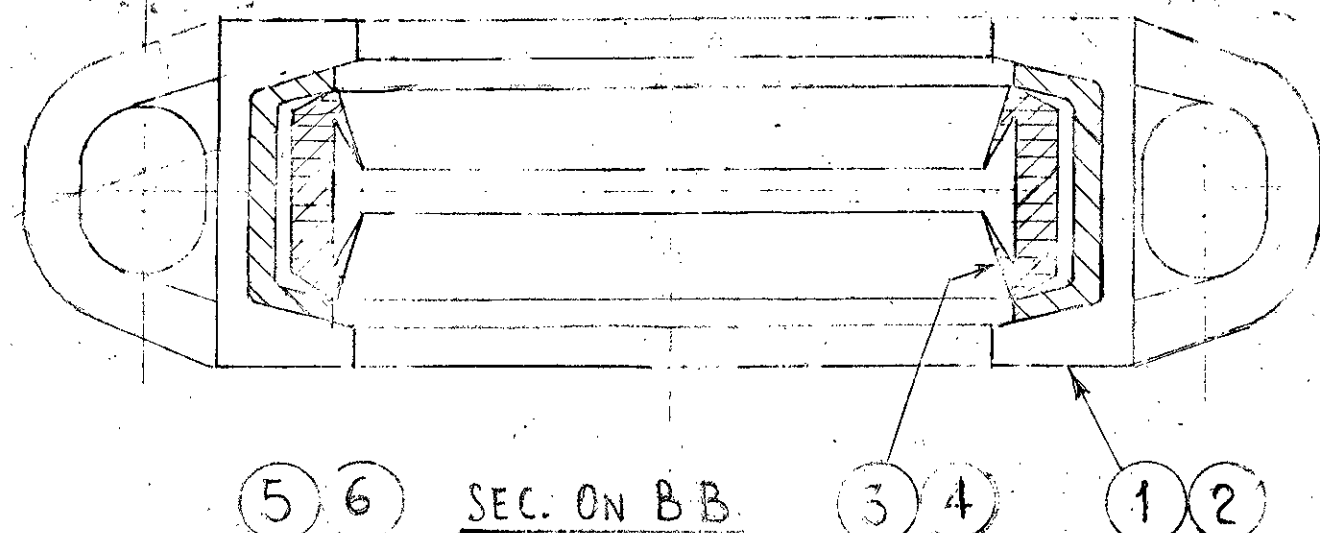
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			DESIGNED	R.C. Roy	14.10.66
			DRAWN	P. S. Ghosh	17.11.66
			TRACED	P. S. Ghosh	17.11.66
			CHECKED	P. S. Ghosh	24.11.66
SCALE 1:20 1:10 1:5	TITLE 2 m O/D x 9.25 LG. SHELL EMULSION TREATER - DETAIL OF FITTINGS ITEM NOS. 22 & 24 TO 27.		APPROVED DRG. NO OIL/1586		
					



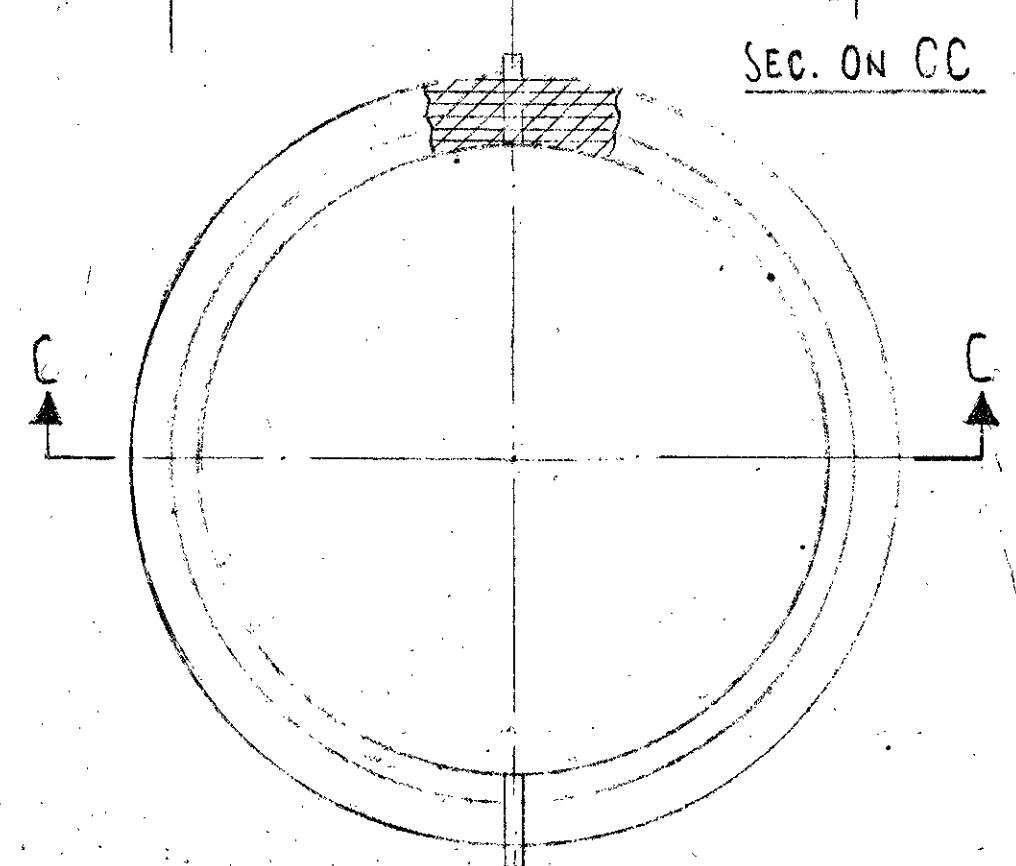
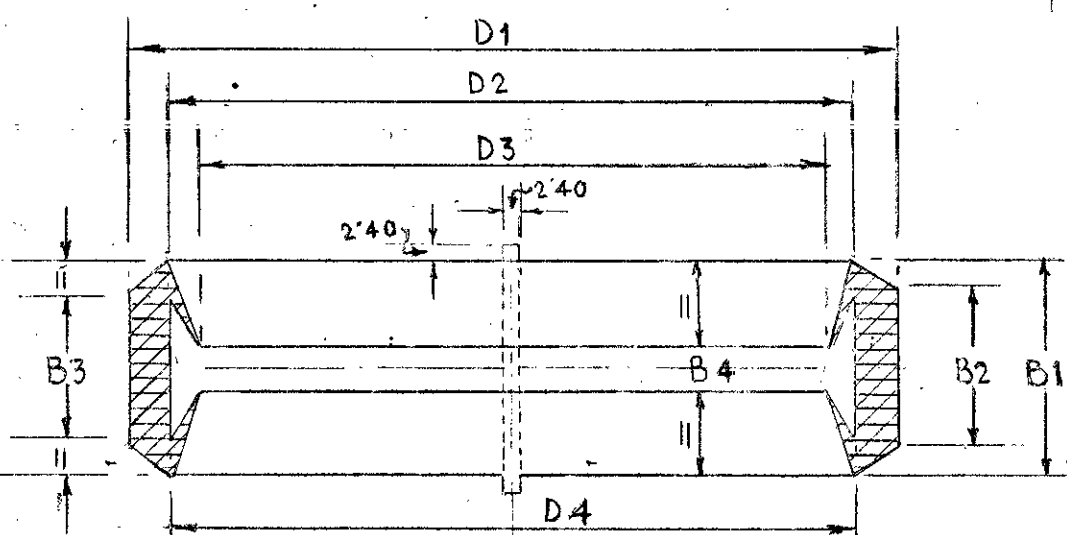
M.S. BOLT & NUT FOR
101.6(4) GUVAGRIP COUPLING



M.S. BOLT & NUT FOR 76.2(3)
GUVAGRIP COUPLING

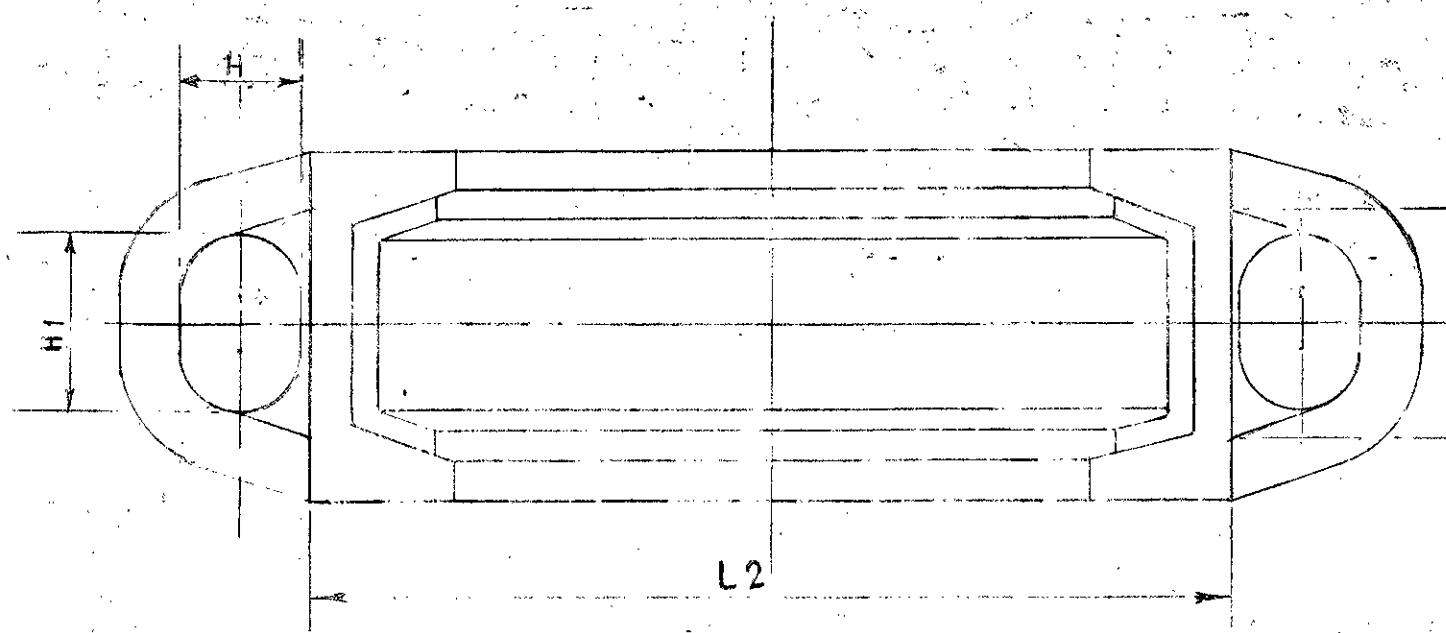


ASSEMBLY

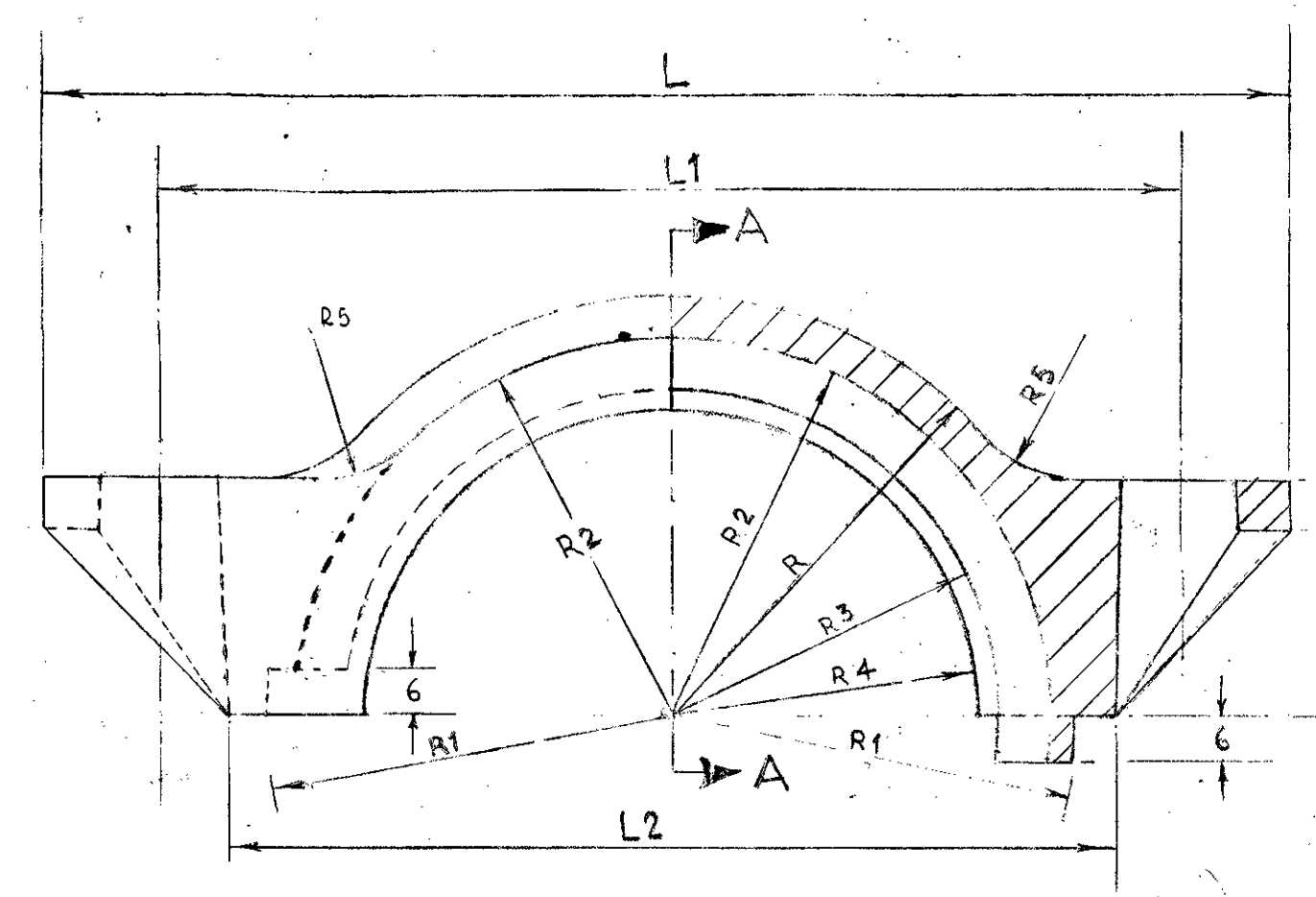


DETAILS OF ITEM NOS. 3 & 4

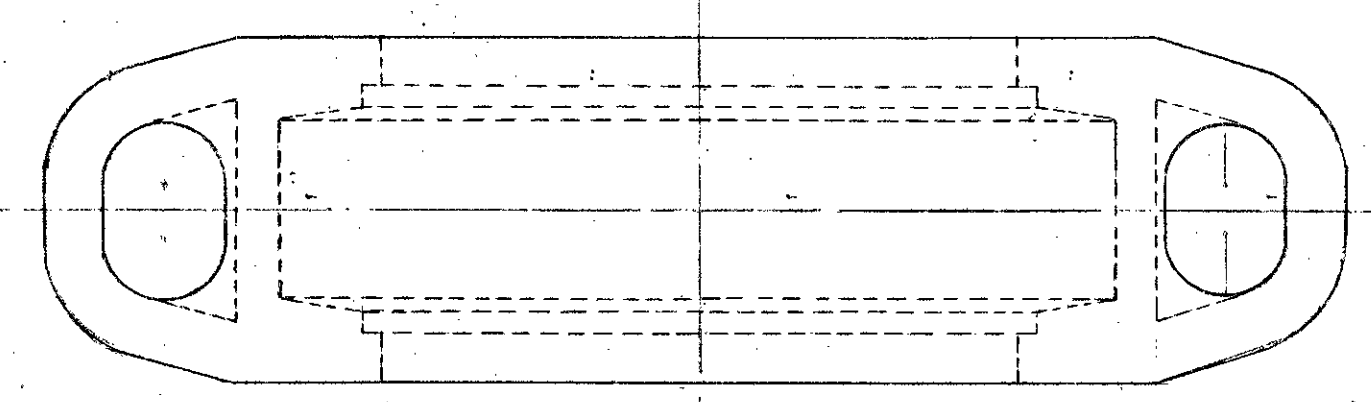
MATERIAL: NEOPRENE RUBBER
SHORE HARDNESS: 60 ± 5



INVERTED PLAN

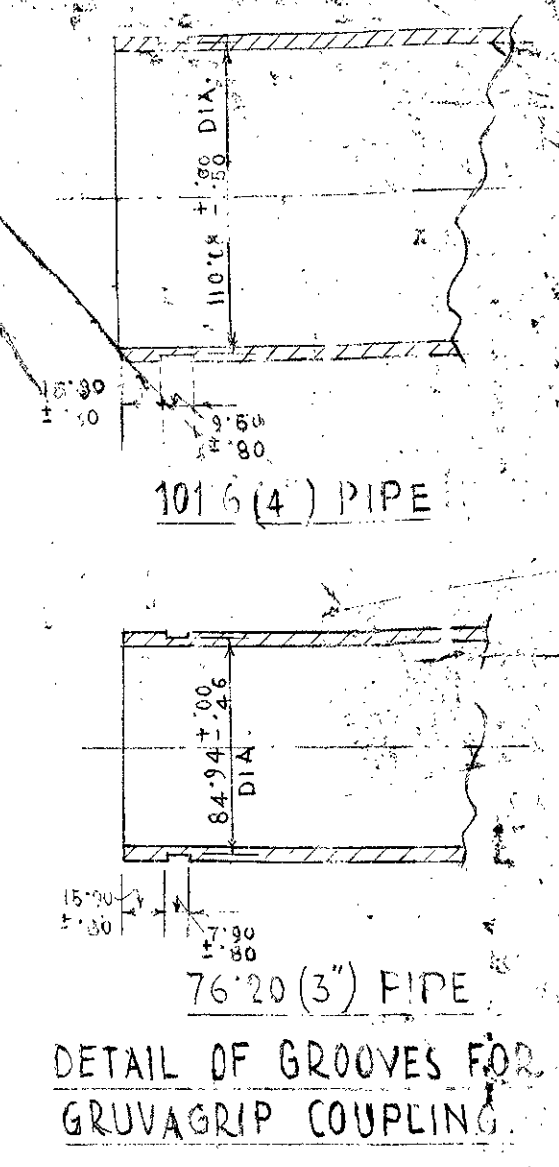


HALF SECTION ELEVATION

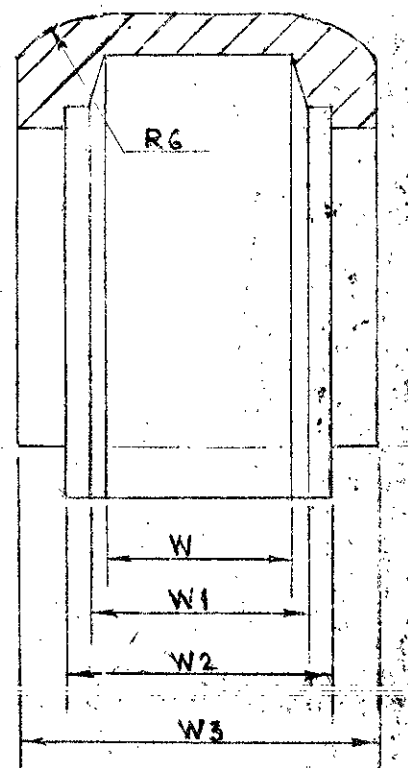


TOP PLAN
DETAILS OF ITEM NOS. 1 & 2

MATERIAL: MALLEABLE CAST IRON



DETAIL OF GROOVES FOR
GUVAGRIP COUPLING



SEC. ON AA

TABLE FOR 76.2(3) & 101.6(4) GUVAGRIP COUPLING

DESCRIPTION	ITEM NO.	DIMENSIONS																		REMARKS
		L	L1	L2	H	H1	H2	R	R1	R2	R3	R4	R5	R6	W	W1	W2	W3	NO. OF REEDS	
HALF COUPLING	1	173.0	141.5	122.5	17.45	23.0	28.60	57.95	55.95	92.0	45.25	42.45	20.65	19.05	25.4	28.60	34.90	47.60	2	FOR 76.2(3) COUPLING
	2	215.90	177.80	154.0	20.45	30.95	34.50	74.20	71.45	67.45	27.95	55.15	25.4	25.4	27.0	31.75	38.10	54.0	2	FOR 101.6(4) COUPLING
GASKET	3	B1	B2	B3	B4	D1	D2	D3	D4										1	FOR 76.2(3) COUPLING
	4	32.0	25.0	22.0	8.0	15.35	11.60	110.0	117.0										1	FOR 101.6(4) COUPLING

NOTES: 2 OFF ITEM 1, 1 OFF ITEM 3 & 1 OFF ITEM 5 ASSEMBLED TOGETHER MAKES ONE COMPLETE 76.2(3) COUPLING
2 OFF ITEM 2, 1 OFF ITEM 4 & 2 OFF ITEM 6 ASSEMBLED TOGETHER MAKES ONE COMPLETE 101.6(4) COUPLING

REV.	DESCRIPTION	DATE	SIGNATURE

OIL INDIA LIMITED
DULAJAN
DRG NO OIL/1645 DATE 26-2-77
SUBJECT DETAILS OF GUVAGRIP COUPLING
SCALE _____
SURVEYED BY _____ DRAWN BY _____
TRACED BY _____ CHECKED BY _____
TIPAC CHECKED BY _____ APPROVED BY _____

ALL DIMENSIONS IN MILLIMETRES
ALL UNLIMITED DIMENSIONS ARE TO HAVE A
GENERAL TOLERANCE ± .40 FOR ITEM NOS. 3 & 4 AND ± .25 FOR ITEM NOS. 1 & 2, 5 & 6

A) SPECIAL NOTES TO BIDDERS:

- 1.0 The bidder shall confirm that the goods, materials to be supplied shall be new, of recent make, of the best quality & workmanship. The bidder shall confirm that the materials shall be guaranteed for a period of 18 months from the date of despatch or 12 months from the date of assembling/testing at Fields, whichever is earlier, against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the Seller shall be replaced immediately by the Seller on FOR destination basis including payment of all taxes and duties at Seller's expense. This guarantee shall survive and hold good notwithstanding inspection, payment for and acceptance of the goods.
- 2.0 Suppliers are to note that the drawing provided by OIL is purely to guide the suppliers to make the final working drawings by them. The drawings should, in no case be treated as final fabrication drawings. Manufacturer's working drawing should be sent to OIL for approval along with Quality Assurance Plan (QAP) prior to the commencement of manufacture/fabrication of the separators. The Bidder shall confirm the same in their technical Bid.
- 3.0 The ET vessel should be U-stamped & constructed in accordance with the provisions of the ASME Boiler & Pressure Vessel Code, ASME section.
- 4.0 All the welding shall be done as per ASME section IX. Suppliers shall confirm that welding of vessel & Fire tube shall be done by welders who are qualified under ASME boiler and pressure vessel code section- IX regulations.
- 5.0 Post weld heat treatment (Stress Relieving) of the whole vessel should be carried out in an automatic temperature controlled furnace only. The Bidder shall confirm the same in their technical Bid.
- 6.0 All welding joints including Fire tube should be tested 100% radiographically. The Bidder shall confirm the same in their technical Bid.
- 7.0 Purchase order no. and year of manufacture shall be clearly written by means of welding on the skirt /leg of the vessel in the event of placement of order. The bidder shall confirm the same in technical bid.
- 8.0 The dished end shall be pressed and spun in dished head spinning machine only. **Welded joint in dished end shall not be allowed.** The bidder shall categorically confirm the same in technical bid.
- 9.0 All flanges shall be made of forged carbon steel conforming to ASTM A 105 and dimensions as per ANSI B 16.5 std. slip on RF (serrated) and of 150 class rating. Companion flanges shall be provided for all flanged nozzles and shall be weld neck type made of forged carbon

steel conforming to ASTM A 105 and dimensions as per ANSI B 16.5 standard 150 class rating.

- 10.0 Nozzle necks shall be made of SA 106 Gr B material only and to be provided with RF plates /saddle made of the material similar to the shell material. In addition, all the nozzle connection should be provided with proper blind / plug at the time of dispatch of standard specification.
- 11.0 Liquid level gauge glass assembly (tubular type), complete with cocks and gauge glass shall be protected to avoid external damage.
- 12.0 All instrumentation items and flame arrestor as specified shall be supplied along with the vessel in the event of placement of order. The bidder shall confirm the same in technical bid
- 13.0 All Instrumentation Items & Flame Arrestor shall be of make as specified in technical specification of the tender
- 14.0 The supplier shall provide P&I diagram of ET for control and safe operation incorporating all instruments, BMS etc. along for approval. The bidder shall confirm the same in technical bid.
- 15.0 All electronic/electrical instruments, Flame Arrestor and equipment use in hazardous area should fulfil the following:
 - a. Item shall be of a type and specification confirming to the relevant standards as specified in the Regulation 107(2) of Oil Mines Regulation-2017 and complying the provisions therein.
 - b. Supplier should submit documents specifying the type, details of specification, reference of the particular standard, test criteria as per the standards and status of testing, place of testing, copies of test reports from Indian Government Laboratory or NABL accredited laboratory or IECEx accredited laboratory or ATEX notified body which is not a part of manufacture's facilities.
 - c. In this regard, supplier may refer OMR-2017, Notification dated 18th October 2017, published in the Gazette of India, under Ministry of Labour and Employment, Directorate General of Mines Safety, published on 2nd November 2017.
- 16.0 The Supplier shall furnish necessary guarantee certificate for safe and trouble free operation of the EMULSION TREATER INCLUDING ALL BOUGHT OUT ITEMS for 18 months from the date of dispatch / shipment or 12 months from the date of assembling/testing at Fields.

17.0 **THIRD PARTY INSPECTION FOR VESSEL**

17.1 OIL will/may arrange for Third Party Inspection of the materials (at any stage of order execution) at Bidder's/Manufacturer's plant by any of its approved third party inspection agency. Scope of Third party Inspection will include but not limited to the following:

- a) To review qualification of the welder (WQP) and welding procedure specifications (WPS) as per ASME code.
- b) To review and ensure use of raw materials as per purchase order & specified in the drawings. This shall be done by reviewing original MTC or by chemical analysis and physical test.
- c) To ensure that the supplier has complied with respect to our approved drawings & PO for fabrication of the vessel.
- d) To review the stage wise inspection of sub assemblies viz. inlet and outlet, mist extractor assembly, dished end, Fire Tube & Chimney, companion flanges etc. before final assembly. Submission of Stage wise inspection report of sub assemblies is mandatory.
- e) To review the radiographed film of weld joints as per ASME code and heat treatment chart.
- f) To witness final dimensional inspection and ensure proper workmanship.
- g) To ensure that the vessel is painted internally with heat resistant anti corrosive painting. The heat resistant paint should be able to withstand heat up to maximum Working temperature i.e. 80 Deg. C.
- h) To witness hydro test of the Fire tube and vessels.
- i) To inspect the Emulsion Treaters in full assembled condition, i.e. with full instrumentation system and other accessories fitted to the vessel at the supplier's works before dispatch.
- j) The above inspection is for general guide line only. If third party desire to carry out any additional inspection as per ASME code, the same should be included under intimation to Oil India Limited.
- k) To document and issue inspection certificates.

17.2 The scope of TPI may change without any prior notice to the successful bidder. While submitting offer, the bidder should not include cost of Third Party Inspection as the same will be arranged by OIL.

17.3 All cost towards the engagement of Third Party Inspection Agency shall be borne by OIL. BIDDER SHALL NOT QUOTE / INCLUDE THE COST OF THIRD PARTY INSPECTION IN THEIR OFFER. However, Bidder shall extend all necessary facility to the satisfaction of Third Party Inspection Agency for smooth conduct of the inspection. For the purpose of Third Party Inspection:

- a) Bidder shall clearly indicate in the technical bid the place/plant where Third Party Inspection of the materials shall be conducted, in the event of an order.

- b) Supplier shall convey to OIL the production schedule within 02(two) weeks from the date of Letter of Award (LOA)/Purchase order so that OIL can deploy the TPI agency to carry out inspection at bidder's/manufacturer's premises accordingly. Additionally, Supplier shall send a notice in writing/e-mail to the OIL at least 15 days in advance specifying the exact schedule and place of inspection (TPI) as per the Purchase Order and OIL upon receipt of such notice shall notify to the supplier the date and time when the materials would be inspected by OIL nominated TPI Agency.
- c) The supplier shall provide, without any extra charge to OIL, all materials, tools, labour and assistance of every kind which the OIL nominated TPI Agency may demand for any test or examination required at supplier's premises. The supplier shall also provide and deliver sample from the material under inspection, free of charge, at any such place other than their premises as the TPI Agency may specify for acceptance tests for which the supplier does not have the facilities for such tests at their premises. In the event of testing outside owing to lack of test facility at supplier's premises, the supplier shall bear cost of such test, if any.
- d) The supplier shall not be entitled to object on any ground whatsoever to the method of testing adopted by the OIL nominated TPI Agency.
- e) Unless otherwise provided for in the Purchase Order, the quantity of materials expended in test will be borne by supplier.
- f) The decision of the Third Party Inspection Agency nominated by OIL regarding acceptance/rejection of material shall be final and binding on the supplier.
- g) Upon successful completion of the TPI and acceptance of the TPI reports by OIL, Bidder/Supplier shall be intimated by OIL for dispatch of the materials. The materials should be despatched only after receipt of dispatch clearance from OIL.
- h) Acceptance of the TPI reports and receipt of dispatch intimation from OIL do not absolve the bidder from any warranty obligations or waive the bidder from OIL's right for rejection of the materials after receipt at site.
- i) Notwithstanding clauses contained herein above, in the event the materials under inspection fails to conform to purchase order specification and are rejected by OIL nominated Third Party Inspection agency, OIL may recover all cost incurred for re-inspection of the materials, from the supplier.

18.0 **PRE-DESPATCH INSPECTION BY OIL:**

OIL shall depute its engineer for stage inspection viz. after completion of the shell (with all mounting / opening provision) and final inspection of the vessel with full instrumentation system and other accessories fitted to the vessel at the supplier's works before dispatch. The supplier will have to arrange for the same giving minimum 15 days prior intimation to OIL. Manufacturer shall facilitate above inspections without any cost to OIL. However, Cost of travel, accommodation and other expenses of OIL's PDI team will be borne by OIL.

19.0 JOINT INSPECTION ON ARRIVAL OF MATERIALS:

- a) Commissioning of the equipment will be carried out by OIL at fields. However, the supplier shall have to send their representative/ Service Engineer for the assembling of the components, mountings & Instrumentation items on each unit before deployment to field operation.
- b) On receipt of the equipment by OIL, the supplier will be intimated to depute their representative/Service engineer. The supplier shall depute their representative/service Engineer within 20 days after receipt of official intimation. The Bidder shall confirm the same in their technical Bid.
- c) The representative/Service Engineer shall have to provide practical demonstration to operating personnel of OIL regarding safe operating procedure & maintenance of equipments & Instrumentation items.
- d) For above, no additional/extra charges will be payable to the supplier by OIL. The Supplier shall have to arrange at his own expense for food, lodging and transportation for their personnel.

20.0 DELIVERY PERIOD:

Delivery should be within 10 Months from the date of placement of purchase order. The bidder should categorically confirm in their technical bid that the items will be supplied within the delivery period. OIL will take a maximum of 45 days, from the date of submission of the last document, for approval of the drawings/datasheet for Instrumentation Items). For any additional time taken by OIL beyond 45 days from submission of the last documents, bidder will be allowed delivery extension by that additional number of days.

B) GENERAL NOTES TO BIDDERS:

SL No.	Bid Requirement	Bidder's Response (Complied/Not Complied. Reference to any document attached along with the bid)
1.0	Bidders shall submit their offer mentioning pointwise compliance / non-compliance to all the terms & conditions, BEC/BRC, Specifications etc. Any deviation(s) from the tender terms & conditions, BEC/BRC, Specifications etc. should be clearly highlighted specifying justification in support of deviation.	
2.0	Bidders are requested to examine all instructions, forms, terms and specifications in the bid. Failure to furnish all information required as per the bid or submission of offers not substantially responsive to the bid in every respect will be at the bidders risk and may result in the rejection of its offer without seeking any clarifications.	
3.0	The items covered in this Tender shall be used by Oil India Limited in the PEL/ML areas and hence concessional GST @5% (for indigenous bidder) will be applicable as per Govt. Policy in vogue. Successful bidder shall arrange to provide all necessary documents (invoice etc.) to OIL for applying Essentiality Certificate atleast 45 days prior to stipulated Delivery date. Further, Successful bidder shall affect dispatch only on receipt of relevant certificates/ shipment clearance from OIL, failing which all related liabilities shall be to Supplier's account.	
4.0	<p>Categorisation and various Criteria applicable to MSE bidders shall be guided by the Gazette Notification No. CG-DL-E-26062020-220191 dated 26.06.2020 and Amendment vide Gazette Notification no. CG-DLE-16062021-227649 dated 16th June, 2021 issued by Ministry of MICRO, SMALL AND MEDIUM ENTERPRISES. The existing enterprises registered under EM- Part-II or UAM till 30th June, 2020 shall continue to be valid only for a period up to the 31st day of December, 2021.</p> <p>The bidder claiming as MSE status (MSE-General, MSE-SCIST, MSE -Woman) against this tender has to submit the following documents for availing the benefits applicable to MSEs:</p> <p>Udyam Registration Number with Udyam Registration Certificate.</p> <p>OR</p> <p>Proof of registration with District Industry Centers or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or Directorate of Handicrafts and Handloom or Udyog Aadhar registration or registration with any other body specified by Ministry of MSME.</p> <p>Note: In case bidding MSE is owned by Schedule Caste or Schedule Tribe entrepreneur or Woman Entrepreneur, valid documentary evidence issued by the agency who has registered the bidder as MSE owned by SC/ST entrepreneur/ Woman Entrepreneurs should also be enclosed.</p>	

5.0	<p>Ministry of Finance of Govt. of India, Department of Expenditure, Public procurement Division vide office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (order-Public Procurement no.1) has proclaimed the insertion of Rule 144 (xi) in the General Financial Rules (GFRs), 2017 w.e.f. 23rd July, 2020 regarding restrictions on procurement from a bidder of a country which shares a land border with India on the grounds of defence of India on matters directly or indirectly related thereto including national security. Bidders are requested to take note of the office memorandum and submit their offers accordingly, wherever applicable. In this regard, bidders must submit duly sealed & signed undertaking as per format provided vide, “PROFORMA-1” along with the technical bid.</p>	
6.0	<p>Bidders to note that Ministry of Petroleum & Natural Gas, Government of India implemented PPLC Policy to provide Purchase Preference (linked with local content) by notification no. Ref. FP-20013/2/2017-FP-PNG dtd. 17.11.2020 and its amendment issued from time to time. PP-LC Policy (including its latest modifications/amendments) as may be prevailing on the date of Price Bid Opening shall be applicable against this tender. Bidders are requested to go through the policy and take note of the following while submitting their offer.</p> <p>As per the policy, the bidder must be incorporated in India and must maintain more than 20% local content (LC) for the offered items to be eligible to bid against this tender.</p> <p>1. <u>Certification and Verification</u></p> <p>Class I/Class II Local suppliers are eligible to bid only if they meet the local content norms, therefore whether or not they want to avail PP-LC benefit, it will still be mandatory for them to give adequate documentation as follows to establish their status as class-I or class-II local supplier:</p> <p>(i) <u>At bidding stage:</u></p> <p>a) Price Break-up:</p> <ul style="list-style-type: none"> The bidder shall provide the percentage of local content in the bid. <p>b)</p> <ul style="list-style-type: none"> The bidder shall submit an undertaking from the authorised signatory of bidder having the power of Attorney alongwith the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract. In cases of procurement for a value in excess of Rs 10 crores, the undertaking submitted by the bidder shall be supported by a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practising chartered accountant (in respect of other than companies) giving the percentage of local content. However, in case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/ subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practising cost accountant or practising chartered accountant giving the percentage of local content is also acceptable. <p>(ii) <u>After Contract Award</u></p> <ul style="list-style-type: none"> The bidder shall submit an undertaking from the authorised signatory of bidder having the power of Attorney alongwith the bid stating the bidder meets the mandatory minimum LC requirement and such undertaking shall become a part of the contract. In cases of procurement for a value in excess of Rs 10 crores, the 	

	<p>undertaking submitted by the bidder shall be supported by a certificate from the statutory auditor or cost auditor of the company (in case of companies) or from a practicing cost accountant or practising chartered accountant (in respect of other than companies) giving the percentage of local content.</p> <ul style="list-style-type: none"> • However, in case of foreign bidder, certificate from the statutory auditor or cost auditor of their own office or subsidiary in India giving the percentage of local content is also acceptable. In case office or subsidiary in India does not exist or Indian office/ subsidiary is not required to appoint statutory auditor or cost auditor, certificate from practising cost accountant or practising chartered accountant giving the percentage of local content is also acceptable. <p>2. Each supplier shall provide the necessary local-content documentation to the statutory auditor, which shall review and determine that local content requirements have been met, and issue a local content certificate to that effect on behalf of procuring company, stating the percentage of local content in the good or service measured. The Auditor shall keep all necessary information obtained from suppliers for measurement of Local Content confidential.</p> <p>3. The Local Content certificate shall be submitted along with each invoice raised. However, the % of local content may vary with each invoice while maintaining the overall % of local content for the total work/purchase of the pro-rata local content requirement. In case, it is not satisfied cumulatively in the invoices raised up to that stage, the supplier shall indicate how the local content requirement would be met in the subsequent stages.</p> <p>4. As regards cases where currency quoted by the bidder is other than Indian Rupee, exchange rate prevailing on the date of notice inviting tender (NIT) shall be considered for the calculation of Local Content.</p> <p>5. The Procuring Company shall also have the authority to audit as well as witness production processes to certify the achievement of the requisite local content.</p>	
6.1	Percentage of Local Content (to mention by the bidder)	
6.2	<p>Bidder to categorically confirm under which policy i.e. PP-LC or MSME, they want to avail the purchase preference. Accordingly, bidder must submit requisite document/certificate in support to avail this benefit. The bids will be evaluated based on their declaration.</p> <p>In case bidder do not submit their preference among PP-LC & MSME and submit documents against both, then the offer will be evaluated by giving benefits under MSME policy and it will be binding on the bidder.</p>	
7.0	<p><u>TAX COLLECTIBLE AT SOURCE (TCS):</u> Tax Collectible at Source (TCS) applicable under the Income-tax Law and charged by the SUPPLIER shall also be payable by OIL along with consideration for procurement of goods/materials/ equipment. If TCS is collected by the SUPPLIER, a TCS certificate in prescribed Form shall be issued by the SUPPLIER to OIL within the statutory time limit.</p> <p>Payment towards applicable TCS u/s 206C (IH) of Income Tax Act, 1961 will be made to the supplier provided they are claiming it in their invoice and on submission of following undertaking along with the invoice stating that:</p> <p>a) TCS is applicable on supply of goods invoiced to OIL as turnover of the supplier in previous year was more than Rs. 10 Cr. and b) Total supply of goods to OIL in FY (As applicable) exceeds Rs. 50 Lakh and c) TCS as charged in the invoice has already been deposited (duly indicating the details</p>	

	<p>such as challan No. and date) or would be deposited with Exchequer on or before the due date and</p> <p>d) TCS certificate as provided in the Income Tax Act will be issued to OIL in time.</p> <p>However, Performance Security deposit will be released only after the TCS certificate for the amount of tax collected is provided to OIL. Supplier will extend the performance bank guarantee (PBG), wherever required, till the receipt of TCS certificate or else the same will be forfeited to the extent of amount of TCS, if all other conditions of Purchase order are fulfilled.</p> <p>The above payment condition is applicable only for release of TCS amount charged by supplier u/s 206C (I H) of Income tax Act, 1961.</p>	
8.0	<p>APPLICABILITY OF BANNING POLICY OF OIL INDIA LIMITED:</p> <p>Banning Policy dated 6th January, 2017 as uploaded in OIL's website will be applicable against the tender (and order in case of award) to deal with any agency (bidder/contractor/supplier/ vendor/service provider) who commits deception, default, fraud or indulged in other misconduct of whatsoever nature in the tendering process and/or order execution processes. Applicability of the policy shall include but not limited to the following in addition to other actions like invoking bid security/performance security/cancellation of order etc. as deemed fit and as mentioned elsewhere in the tender:</p> <p>a) Backing out by bidder within bid validity.</p> <p>b) Backing out by successful bidder after issue of LOA/Order/Contract</p> <p>c) Non/poor performance and order/contract execution default.</p> <p>The bidders who are on Holiday/Banning/Suspension list of OIL on due date of submission of bid/ during the process of evaluation of the bids, the offers of such bidders shall not be considered for bid opening/evaluation/award. If the bidding documents were issued inadvertently/downloaded from website, the offers submitted by such bidders shall also not be considered for bid opening/evaluation/Award of Work.</p>	
9.0	<p>At any time prior to the deadline for submission of bids, the Company may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the tender Documents through issuance of Corrigendum(s)/Addendum(s). Bidders are expected to take the Corrigendum(s)/Addendum(s) into account in preparation and submission of their bid. No separate intimation for Corrigendum(s)/Addendum(s) published by OIL shall be sent to the Bidders.</p>	
10.0	<p>The Integrity Pact is applicable against this tender. OIL shall be entering into an Integrity Pact with the bidders as per format enclosed vide PROFORMA-5 of the tender document. This Integrity Pact proforma has been duly signed digitally by OIL's competent signatory. The proforma has to be returned by the bidder (along with the technical bid) duly signed (digitally) by the same signatory who signed the bid, i.e., who is duly authorized to sign the bid. Uploading the Integrity Pact with digital signature will be construed that all pages of the Integrity Pact has been signed by the bidder's authorized signatory who sign the Bid. If any bidder refuses to sign Integrity Pact or declines to submit Integrity Pact with the offer, their bid shall be rejected straightway.</p> <p>OIL's Independent External Monitors at present are as under:</p> <p>SHRI RUDHRA GANGADHARAN, IAS (Retd.), Ex-Secretary, Ministry of Agriculture E-Mail ID: rudhra.gangadharan@gmail.com</p>	

	<p>SHRI SUTANU BEHURIA, IAS (Retd.), E-mail ID: sutanu2911@gmail.com</p> <p>SHRI OM PRAKASH SINGH, IPS (Retd.),, Former DGP, Uttar Pradesh E-mail: Ops2020@rediffmail.com</p> <p>In case of a joint venture, all the partners of the joint venture should sign the Integrity Pact.</p> <p>In the event of any dispute between the management and the contractor relating to those contracts where Integrity Pact is applicable, in case, both the parties are agreeable, they may try to settle dispute through mediation before the panel of IEMs in a time bound manner. If required, the organizations may adopt any mediation rules for this purpose. In case, the dispute remains unresolved even after mediation by the panel of IEMs, the organisation may take further action as per the terms and conditions of the contract.</p>	
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BID EVALUATION / REJECTION CRITERIA :

The bids shall conform to the specifications and terms & conditions given in the Tender. Bids shall be rejected in case the items offered do not conform to the required parameters stipulated in the technical specifications and to the relevant international/national standards wherever stipulated. Notwithstanding the general conformity of the bids to the stipulated specifications and terms & conditions, the following requirements must be particularly met by the bidders, without which the offer shall be considered as non-responsive and rejected. All the documents related to BEC shall be submitted along with the technical bid.

Sl. No.	Bid Requirement	Bidder's Response (Complied/Not Complied. Reference to any document attached along with the bid)
TECHNICAL		
1.0	BIDDER'S QUALIFICATION: The bidder shall be an original equipment manufacturer (OEM) of Emulsion Treater.	
2.0	<p>BIDDER'S EXPERIENCE:</p> <p>The bidder shall have credentials of successful execution of supplying at least <u>Two(02)</u> numbers of Emulsion Treater / Pressure vessel / Heater Treater unit / Gas Oil separator / Indirect Heater within last five(05) years from Original Bid Closing Date of this tender.</p> <p>In support of supply experience, the bidder shall submit the following documents –</p> <p>(a) Copy(ies) of Purchase Order(s) / Contract document(s), and (b) Any of the following documents that confirms the successful execution of the order(s)- - Performance report from the clients, - Bill of lading, - Consignee received delivery challan / invoice etc. - Any other documentary evidence that can substantiate the successful execution of each of the Purchase Orders cited.</p> <p><u>Note:</u> a) The Purchase Order date need not be within 5 (five) years preceding original bid closing date of this tender. However, the execution of supply should be within 5 (five) years preceding original bid closing date of this tender. b) Satisfactory supply/completion/installation report (if submitted) should be issued on client's official letterhead with signature and stamp.</p>	
3.0	Delivery Period: Delivery should be within 10 Months from the date of placement of purchase order. The bidder should categorically confirm in their technical bid that the items will be supplied within the delivery period.	

Sl. No.	Bid Requirement	Bidder's Response (Complied/Not Complied. Reference to any document attached along with the bid)
FINANCIAL		
1.0	The bidder shall have an annual financial turnover of minimum Rs. 81.16 Lakh during any of the preceding 3 (Three) financial/accounting years reckoned from the original bid closing date of the tender."	
2.0	"Net Worth" of the bidder should be positive for the financial / accounting year just preceding to the original bid closing date of the tender.	
3.0	Considering the time required for preparation of Financial Statements, if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date and the Financial Statements of the preceding financial / accounting year are not available with the bidder, then the financial turnover of the previous three financial / accounting years excluding the preceding financial / accounting year will be considered. In such cases, the Net worth of the previous financial / accounting year excluding the preceding financial / accounting year will be considered. However, the bidder has to submit an affidavit/undertaking (refer PROFORMA- 2) certifying that 'the balance sheet/Financial Statements for the financial year (As the case may be) has actually not been audited so far'.	
	<p>Note:</p> <p>a) For proof of Annual Turnover & Net worth any one of the following document must be submitted along with the bid:-</p> <p>i) A certificate issued by a practicing Chartered/Cost Accountant (with Membership Number and Firm Registration Number), certifying the Annual turnover & Net worth as per format prescribed in PROFORMA – 3.</p> <p>OR</p> <p>ii) Audited Balance Sheet along with Profit & Loss account.</p> <p>b) In case the bidder is a Central Govt. Organization/PSU/State Govt. Organization/Semi-State Govt. Organization or any other Central/State Govt. Undertaking, where the auditor is appointed only after the approval of Comptroller and Auditor General of India and the Central Government, their certificates may be accepted even though FRN is not available. However, bidder to provide documentary evidence for the same.</p>	
4.0	<p>In case the Bidder is subsidiary company (should be 100% owned subsidiary of the parent/ultimate parent/holding company) who does not meet financial criteria by itself and submits its bid based on the strength of parent/ ultimate parent/ holding company, then following documents need to be submitted:</p> <p>i) Turnover of the parent/ ultimate parent/ holding company should be in line with requirement.</p> <p>ii) Net Worth of the parent/ultimate parent/ holding company should be positive in line with Para 1.0 above.</p> <p>iii) Corporate Guarantee (as per PROFORMA-4) on parent / ultimate parent/ holding company's company letter head signed by an authorised official undertaking that they would financially support their wholly owned subsidiary company for executing the project/ job in case the same is awarded to them.</p> <p>iv) Document of subsidiary company being 100% owned subsidiary of the parent/ ultimate parent/ holding company.</p>	

ANNEXURE-IV (CHECKLIST FOR SPECIAL NOTES)

(BIDDERS MUST SUBMIT DULY FILLED CHCKLIST ALONG WITH THEIR TECHNICAL BID

<u>Technical specification as per NIT</u>	<u>Technical Offer by the Bidder</u> <u>** (Note: Complete Description</u> <u>should be furnished by bidder)</u>	<u>Compliance by Bidder</u>	
		<u>Indicate</u> <u>Complied or</u> <u>Deviation if</u> <u>any</u>	<u>Indicate</u> <u>Corresponding page</u> <u>ref. of unpriced bid or</u> <u>Comments if any</u>
1.0 The bidder shall confirm that the goods, materials to be supplied shall be new, of recent make, of the best quality & workmanship. The bidder shall confirm that the materials shall be guaranteed for a period of 18 months from the date of despatch or 12 months from the date of assembling/testing at Fields, whichever is earlier, against defects arising from faulty materials, workmanship or design. Defective goods / materials or parts notified by OIL to the Seller shall be replaced immediately by the Seller on FOR destination basis including payment of all taxes and duties at Seller's expense. This guarantee shall survive and hold good notwithstanding inspection, payment for and acceptance of the goods.			
2.0 Suppliers are to note that the drawing provided by OIL is purely to guide the suppliers to make the final working drawings by them. The drawings should, in no case be treated as final fabrication drawings. Manufacturer's working drawing should be sent to OIL for approval along with Quality Assurance Plan (QAP) prior to the commencement of manufacture/fabrication of the separators. The Bidder shall confirm the same in their technical Bid.			
3.0 The ET vessel should be U-stamped & constructed in accordance with the provisions of the ASME Boiler & Pressure Vessel Code, ASME section.			

4.0	All the welding shall be done as per ASME section IX. Suppliers shall confirm that welding of vessel & Fire tube shall be done by welders who are qualified under ASME boiler and pressure vessel code section-IX regulations.			
5.0	Post weld heat treatment (Stress Relieving) of the whole vessel should be carried out in an automatic temperature controlled furnace only. The Bidder shall confirm the same in their technical Bid.			
6.0	All welding joints including Fire tube should be tested 100% radiographically. The Bidder shall confirm the same in their technical Bid.			
7.0	Purchase order no. and year of manufacture shall be clearly written by means of welding on the skirt /leg of the vessel in the event of placement of order. The bidder shall confirm the same in technical bid.			
8.0	The dished end shall be pressed and spun in dished head spinning machine only. <u>Welded joint in dished end shall not be allowed.</u> The bidder shall categorically confirm the same in technical bid.			
9.0	All flanges shall be made of forged carbon steel conforming to ASTM A 105 and dimensions as per ANSI B 16.5 std. slip on RF (serrated) and of 150 class rating. Companion flanges shall be provided for all flanged nozzles and shall be weld neck type made of forged carbon steel conforming to ASTM A 105 and dimensions as per ANSI B 16.5 standard 150 class rating.			
10.0	Nozzle necks shall be made of SA 106 Gr B material only and to be provided with RF plates /saddle made			

	of the material similar to the shell material. In addition, all the nozzle connection should be provided with proper blind / plug at the time of dispatch of standard specification.			
11.0	Liquid level gauge glass assembly (tubular type), complete with cocks and gauge glass shall be protected to avoid external damage.			
12.0	All instrumentation items and flame arrestor as specified shall be supplied along with the vessel in the event of placement of order. The bidder shall confirm the same in technical bid			
13.0	All Instrumentation Items & Flame Arrestor shall be of make as specified in technical specification of the tender			
14.0	The supplier shall provide P&I diagram of ET for control and safe operation incorporating all instruments, BMS etc. along for approval. The bidder shall confirm the same in technical bid.			
15.0	<p>All electronic/electrical instruments, Flame Arrestor and equipment use in hazardous area should fulfil the following:</p> <ol style="list-style-type: none"> Item shall be of a type and specification confirming to the relevant standards as specified in the Regulation 107(2) of Oil Mines Regulation-2017 and complying the provisions therein. Supplier should submit documents specifying the type, details of specification, reference of the particular standard, test criteria as per 			

<p>the standards and status of testing, place of testing, copies of test reports from Indian Government Laboratory or NABL accredited laboratory or IECEx accredited laboratory or ATEX notified body which is not a part of manufacture's facilities.</p> <p>c. In this regard, supplier may refer OMR-2017, Notification dated 18th October 2017, published in the Gazette of India, under Ministry of Labour and Employment, Directorate General of Mines Safety, published on 2nd November 2017</p>			
<p>16.0 The Supplier shall furnish necessary guarantee certificate for safe and trouble free operation of the EMULSION TREATER INCLUDING ALL BOUGHT OUT ITEMS for 18 months from the date of dispatch / shipment or 12 months from the date of assembling/testing at Fields.</p>			
<p>17.0 THIRD PARTY INSPECTION FOR VESSEL</p>			
<p>17.1 OIL will/may arrange for Third Party Inspection of the materials (at any stage of order execution) at Bidder's/Manufacturer's plant by any of its approved third party inspection agency. Scope of Third party Inspection will include but not limited to the following:</p> <p>a) To review qualification of the welder (WQP) and welding procedure specifications (WPS) as per ASME code.</p> <p>b) To review and ensure use of raw materials as per purchase order & specified in the drawings. This shall be done by reviewing original MTC or by chemical analysis and physical test.</p> <p>c) To ensure that the supplier has complied with</p>			

	<p>respect to our approved drawings & PO for fabrication of the vessel.</p> <p>d) To review the stage wise inspection of sub assemblies viz. inlet and outlet, mist extractor assembly, dished end, Fire Tube & Chimney, companion flanges etc. before final assembly. Submission of Stage wise inspection report of sub assemblies is mandatory.</p> <p>e) To review the radiographed film of weld joints as per ASME code and heat treatment chart.</p> <p>f) To witness final dimensional inspection and ensure proper workmanship.</p> <p>g) To ensure that the vessel is painted internally with heat resistant anti corrosive painting. The heat resistant paint should be able to withstand heat up to maximum Working temperature i.e. 80 Deg. C.</p> <p>h) To witness hydro test of the Fire tube and vessels.</p> <p>i) To inspect the Emulsion Treaters in full assembled condition, i.e. with full instrumentation system and other accessories fitted to the vessel at the supplier's works before dispatch.</p> <p>j) The above inspection is for general guide line only. If third party desire to carry out any additional inspection as per ASME code, the same should be included under intimation to Oil India Limited.</p> <p>k) To document and issue inspection certificates.</p>			
17.2	<p>The scope of TPI may change without any prior notice to the successful bidder. While submitting offer, the bidder should not include cost of Third Party Inspection as the same will be arranged by OIL.</p>			

<p>17.3 All cost towards the engagement of Third Party Inspection Agency shall be borne by OIL. BIDDER SHALL NOT QUOTE / INCLUDE THE COST OF THIRD PARTY INSPECTION IN THEIR OFFER. However, Bidder shall extend all necessary facility to the satisfaction of Third Party Inspection Agency for smooth conduct of the inspection. For the purpose of Third Party Inspection:</p> <p>a) Bidder shall clearly indicate in the technical bid the place/plant where Third Party Inspection of the materials shall be conducted, in the event of an order.</p> <p>b) Supplier shall convey to OIL the production schedule within 02(two) weeks from the date of Letter of Award (LOA)/Purchase order so that OIL can deploy the TPI agency to carry out inspection at bidder's/manufacturer's premises accordingly. Additionally, Supplier shall send a notice in writing/e-mail to the OIL at least 15 days in advance specifying the exact schedule and place of inspection (TPI) as per the Purchase Order and OIL upon receipt of such notice shall notify to the supplier the date and time when the materials would be inspected by OIL nominated TPI Agency.</p> <p>c) The supplier shall provide, without any extra charge to OIL, all materials, tools, labour and assistance of every kind which the OIL nominated TPI Agency may demand for any test or examination required at supplier's premises. The supplier shall also provide and deliver sample from the material under inspection, free of charge, at any such place other than their</p>			
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<p>premises as the TPI Agency may specify for acceptance tests for which the supplier does not have the facilities for such tests at their premises. In the event of testing outside owing to lack of test facility at supplier's premises, the supplier shall bear cost of such test, if any.</p> <p>d) The supplier shall not be entitled to object on any ground whatsoever to the method of testing adopted by the OIL nominated TPI Agency.</p> <p>e) Unless otherwise provided for in the Purchase Order, the quantity of materials expended in test will be borne by supplier.</p> <p>f) The decision of the Third Party Inspection Agency nominated by OIL regarding acceptance/rejection of material shall be final and binding on the supplier.</p> <p>g) Upon successful completion of the TPI and acceptance of the TPI reports by OIL, Bidder/Supplier shall be intimated by OIL for dispatch of the materials. The materials should be despatched only after receipt of dispatch clearance from OIL.</p> <p>h) Acceptance of the TPI reports and receipt of dispatch intimation from OIL do not absolve the bidder from any warranty obligations or waive the bidder from OIL's right for rejection of the materials after receipt at site.</p> <p>i) Notwithstanding clauses contained herein above, in the event the materials under inspection fails to conform to purchase order specification and</p>			
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are rejected by OIL nominated Third Party Inspection agency, OIL may recover all cost incurred for re-inspection of the materials, from the supplier.			
<p>18.0 PRE-DESPATCH INSPECTION BY OIL:</p> <p>OIL shall depute its engineer for stage inspection viz. after completion of the shell (with all mounting / opening provision) and final inspection of the vessel with full instrumentation system and other accessories fitted to the vessel at the supplier's works before dispatch. The supplier will have to arrange for the same giving minimum 15 days prior intimation to OIL. Manufacturer shall facilitate above inspections without any cost to OIL. However, Cost of travel, accommodation and other expenses of OIL's PDI team will be borne by OIL.</p>			
<p>19.0 JOINT INSPECTION ON ARRIVAL OF MATERIALS:</p> <p>a) Commissioning of the equipment will be carried out by OIL at fields. However, the supplier shall have to send their representative/ Service Engineer for the assembling of the components, mountings & Instrumentation items on each unit before deployment to field operation.</p> <p>b) On receipt of the equipment by OIL, the supplier will be intimated to depute their representative/Service engineer. The supplier shall depute their representative/ service Engineer within 20 days after receipt of official intimation. The Bidder shall confirm the same in their technical Bid.</p>			

<p>c) The representative/Service Engineer shall have to provide practical demonstration to operating personnel of OIL regarding safe operating procedure & maintenance of equipments & Instrumentation items.</p> <p>d) For above, no additional/extra charges will be payable to the supplier by OIL. The Supplier shall have to arrange at his own expense for food, lodging and transportation for their personnel.</p>			
<p>20.0 DELIVERY PERIOD: Delivery should be within 10 Months from the date of placement of purchase order. The bidder should categorically confirm in their technical bid that the items will be supplied within the delivery period. OIL will take a maximum of 45 days, from the date of submission of the last document, for approval of the drawings/datasheet for Instrumentation Items). For any additional time taken by OIL beyond 45 days from submission of the last documents, bidder will be allowed delivery extension by that additional number of days.</p>			

ANNEXURE-V (CHECKLIST FOR SPECIAL NOTES)
(BIDDERS MUST SUBMIT DULY FILLED CHCKLIST ALONG WITH THEIR TECHNICAL BID

Technical specification check list for evaluation

<u>NIT clause no</u>	<u>Technical specification as per NIT</u>	<u>Technical Offer by the Bidder</u> <u>** (Note: Complete Description should be furnished by bidder)</u>	<u>Compliance by Bidder</u>	
			<u>Indicate Complied or Deviation if any</u>	<u>Indicate Corresponding page ref. of unpriced bid or Comments if any</u>
	Horizontal Emulsion Treater (ET) with Flame arrested Burner, Burner Management System & allied Instrumentation as per API Specification 12L, ASME SEC VIII, DIV-I , OIL DRAWINGS and specifications given below: OIL DRAWING NOS. OIL/1581/A OIL/1582 OIL/1583/B OIL/1584 OIL/1585 OIL/1586 OIL/1587/A OIL/1645 & OIL/PDNO/P&D/015/A-01/01 (for Flame Arrestor)			
<u>A(1)</u>	A. <u>SPECIFICATIONS FOR ET- VESSEL:</u> 1. Body style: Horizontal, cylindrical, welded, ellipsoidal dished head. Dished end shall be spun in a dished head spinning machine only. There shall be no welding in the dished ends.			
<u>A(2)</u>	2. There should not be any welding joint in straight segment of fire tube. Fabrication and MOC shall be as per reference Drawing OIL1583/B only. The bidder to comply tender requirement.			

<u>A(3)</u>	<p>3. Material of construction:</p> <p>a) All pressure plates to IS: 2002 Gr. 2A steel or SA-516 Gr 60/70.</p> <p>b) Non pressure plates to IS: 2062 quality steel.</p> <p>c) Seamless pipe conforming to SA 106 GR B must be used for fire tube and chimney.</p> <p>d) Corrosion allowance: To be considered as per corrosion control guidelines-Appendix B of API specification 12L.</p> <p>e) All flanged outlet/inlet connection must be rated to ANSI 150 Class RF only as per ANSI B 16.5.</p> <p>f) Hydraulic testing of the vessel as per relevant code of API Specification 12L latest Edition/ ASME Section VIII Div.</p>			
<u>A(4)</u>	4. Nozzle/Connections: As per OIL drawings enclosed.			
<u>A(5)</u>	<p>5. Service requirement and Design Data :</p> <p>Oil handling capacity : 5000 BPD fluid (900klpd)</p> <p>Design pressure : 3.5 kg/cm²</p> <p>Test pressure : 5.25 kg/cm²</p> <p>Working temperature : 60 deg C to 71 deg C</p> <p>Oil gravity : 23-35 deg API</p> <p>Design code : ASME Sec. VIII Div. 1.</p> <p>Radiography : 100% as per relevant ASME code.</p>			
<u>A 6(a)</u>	<p>6. Heat Treatment:</p> <p>a. Post weld heat treatment (Stress Relieving) of the whole vessel should be carried out in an automatic temperature controlled furnace only.</p>			
<u>A 6(b)</u>	<p>b. Post and pre-heat treatment of the fire tubes should be carried out separately as per ASME section VIII.</p>			
<u>A 7(i)</u>	<p>7. Finishing:</p> <p>i) Vessel should be cleaned by sand blasting followed by one coat of uniform red oxide primer and one coat of Aluminium enamel painting on outside only.</p>			

<u>A 7(ii)</u>	ii) The vessel should be painted internally with heat resistant anti corrosive painting. The heat resistant paint should be able to withstand heat up to maximum working temperature up to 100 Deg. C.			
<u>A 8(i)</u>	8. Test Certificate : The manufacturer will have to provide test certificate for the followings: i) Raw materials used showing material compositions along with physical and chemical properties. The date of raw Materials test certificate, Mill test certificate shall be not older than 1 year from the date of fabrication			
<u>A 8(ii)</u>	ii) Hydro test at operating pressure for 24 hours and at hydraulic test pressure for ½ hrs continuous record by pressure recorder. Hydraulic testing of the vessel shall be carried out as per relevant code of API Specification 12L latest Edition/ ASME Section VIII Div. 1.			
<u>A 8(iii)</u>	iii) Radiography report with weld location shall be produced showing quality of weld joints.			
<u>A 8(iv)</u>	iv) Heat treatment chart of PWHT.			

B. SPECIFICATIONS FOR INSTRUMENTATION ITEMS:				
B(1)	<p>1) FLEX TUBE TYPE INTERFACE LIQUID LEVEL CONTROLLER: Quantity : 2 Nos. Service : Interface level control between Crude Oil and Water in the Emulsion Treater Operative Mode: Pneumatic Throttling, Direct Process connection: 101.6mm (4") ANSI 150 class RF Flange Max. Working Pressure: 14.06 Kg/Sq.cm, (200 psi) Working Temperature: 180 Degree F Enclosure : Weather Proof, IP54 or better. Supply Pressure : 20 PSI Supply Connection: 1/4"NPT (F) Output Connection: 1/4"NPT (F) Displacer : Horizontal, approx. 3-1/2"X14" (355.6mm) long float type suitable for Oil-Water Interface. Flex-Tube Material: SS 316 OR CAGED DISPLACER TYPE INTERFACE LIQUID LEVEL CONTROLLER: Quantity: 2 Nos. Service: Interface level control between Crude Oil and Water in the Emulsion Treater Operative Mode: Pneumatic Throttling, Direct Process connection: minimum 1" (Inch.) Max. Working Pressure: 14.06 Kg/Sq.cm, (200 psi) Working Temperature: 180 Degree F Enclosure : Weather Proof, IP54 or better. Supply Pressure : 20 PSI Displacer : vertical type suitable for Oil-Water Interface. Torque-Tube Material: SS 316 Make : Fisher-Rosemount /Procon Controls/Norriseal/MASONEILAN/V-Automat Accessories : a) Supply pressure gauge (0-30 Psi): 2 nos. b) Output pressure gauge (0-30 Psi): 2 nos. c) Air filter regulator (Input: 100 PSI, Output: adjustable): 2 nos.</p>			

<u>B(2)</u>	<p>2) FLEX TUBE TYPE LIQUID LEVEL CONTROLLER: Quantity : 1 no. Service : Crude Oil Level Control in the Emulsion Treater Operative Mode: Pneumatic Throttling, Direct Process Connection: 101.6mm (4") Gruva-grip type coupling with gaskets, bolts & nuts or flanged type Max. Working Pressure: 14.06 Kg/Sq. cm (200 psi) Working Temperature: 180 Degree F Enclosure : Die Cast Alluminium ,Weather proof, IP54 or better. Supply Pressure : 20 psi Supply Connection: 1/4" NPT (F) Output Connection: 1/4"NPT (F) Displacer : Approx.3-1/2"x 6" (90x150mm) SS Float Flex- tube Material : SS 316 Make : Fisher-Rosemount /Procon Controls/Norriseal/MASONEILAN/V-Automat Accessories: a) Supply pressure gauge (0-30 Psi): 1 no. b) Output pressure gauge (0-30 Psi): 1 no. c) Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no.</p>			
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<p><u>B(3)</u></p>	<p>3) FLOAT TYPE LIQUID LEVEL CONTROLLER WITH MICROSWITCH: Quantity : 1 no. Service : To cut off pneumatic supply to output on detection of low crude oil level in the Emulsion Treater Operative Mode: Snap Action Process Connection: 101.6 mm (4") Gruva-grip type coupling with gaskets, bolts & nuts or flanged type Max-Working Pressure: 21.09 Kg/Sq.cm (300 psi) Working Temperature: 180 Degree F Enclosure : Die Cast Alluminium ,Weather Proof,IP54 or better. Supply pressure : 20 PSI Supply connection: 1/4"NPT (F) Output connection: 1/4"NPT (F) Float : Approx.3-1/2"diameter x 6" (90x150mm) SS Float Float material : SS 316 Rod length : 14" Standard Rod Material : Stainless Steel Micro Valve : Three ports 1/4" NPT (F) Micro Valve Body Material : Anodized Aluminium or Brass Body material : Ductile Iron Make : Fisher-Rosemount /Procon Controls/Norriseal/V-Automat</p> <p>Accessories: a) Supply pressure gauge (0-30 Psi): 1 no. b) Output pressure gauge (0-30 Psi): 1 no. c) Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no.</p>			
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<p>B(4)</p>	<p>4) PRESSURE CONTROLLER (0-10 Kg/Sq.cm):</p> <p>Quantity : 1 no. Type: Pneumatic, Indicating with Proportional & Reset Action</p> <p>General: Function: Indicating Controller Mounting: Vertical pipe mount 2"(50 mm) pipe Housing Material: Glass fibre reinforced polyester/Polyester Plastic/ Die cast aluminium with anti-corrosion and weatherproof protection Enclosure: Minimum IP53 Maximum Dimension: 270mmX170mmX350mm (LXBXH) Maximum Weight: 7 Kg Controller Performance: Control Mode: Proportional Integral (PI) Action: Direct/Reverse Action (Controller action should be Field Reversible without any change of parts.) Auto/Manual Switch: To be provided Set Point Adjustment: Manual Supply pressure: 20 psig Output: 3 to 15 psig Proportional Band: 10 to 100% of process scale span Reset: 0.05 to 15 repeats per minute Repeatability: 0.5% of output span Unit of process variable display scale: psig & kg/sqcm General Components: Service: Gauge Pressure Sensing Element Type: Bourdon Tube, 316 Stainless steel Range: Adj. Range: 0 to 100 psi (0 to 7 kg/sqcm)</p> <p>Process: Process Fluid: Natural Gas / Hydrocarbon liquid Process connection: ¼ inch NPT (F) (Bottom Entry) Air Consumption: 20 scfh maximum Input connection: ¼" NPT (F) bottom entry. Output connection: ¼" NPT (F) bottom entry. Controller Delivery Capacity: 0.2 to 1.0 Bar (3 to 15 Psig) Make : Fisher-Rosemount/Yokagawa/ABB/OMC/V-Automat Accessories: Door lock Mounting Bracket with clamp & nuts for 2" pipe Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no. 2", 1/4" 0 to 30 psi Supply Gauge: 1 no. 2", 1/4" 0 to 30 psi Output Gauge: 1 no.</p>			
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<p>2(5)</p>	<p>5) PNEUMATIC TEMPERATURE CONTROLLER WITH THERMOWELL: Quantity : 1 no. Type : Pneumatic, Indicating with Proportional & Reset Action Process Fluid : Natural Gas Sensing Element : Filled system Range : 0 to 100 Deg C (32 to 212 Deg F) Accuracy : +/- 1.0% of full scale Bulb Material : 316 SS Bulb Immersion Length: 12 inch (300 mm) Capillary Length : 15 feet (4.5 m) Thermowell Material : 316 SS Thermowell Connection: ½ INCH FNPT x 1 INCH NPT (M) Output Action : Direct/Reverse selectable Proportional Band: 10 to 100% of process scale span Reset: : 0.05 to 15 repeats per minute Supply : 20 psi Connection : Bottom connected, ¼ inch.NPT Air Consumption : 0.2 scfm maximum Output Pressure : 3 to 15 psi Mounting : Vertical pipe mount Scale size : 160 mm Pointer : SP and PV on the same linear scale Repeatability : Minimum 0.5% Housing : Glass fibre reinforced polyester/Polyester Plastic/ Die cast aluminium with anti-corrosion and weatherproof protection,IP53 or better. Control : Internal Auto/Manual Temperature Elements: Precision wound type spiral Make : Fisher-Rosemount/Procon Controls/Yokagawa/ABB/OMC/V-Automat Accessories: Door Lock Mounting bracket with clamp & nuts for 2 inch pipe Air filter regulator (Input: 100 PSI, Output: adjustable): 1 no. 2", 1/4" 0 to 30 psi Supply Gauge: 1 no. 2", 1/4" 0 to 30 psi Output Gauge: 1 no.</p>			
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2(6)	<p>6) TEMPERATURE GAUGE WITH THERMOWELL: Quantity : 2 nos. Temperature Range : 0 - 100°C Thermowell Connection : 1" NPT Insertion Length : 150 mm (6") Type : Bimetallic/Mercury filled Sensing Element Connection: 1/2 INCH NPT Material of construction: All SS Accuracy : ± 0.5°C Make : Wika/Odin/Waaree</p>			
2(7)	<p>7) PRESSURE GAUGES WITH ISOLATION VALVES (2 NOS.): Dial size : 150 mm (6") Minimum Range : 0 - 10 kg/cm² Pressure Element : 55 Bourdon Tube Material of Construction: All SS Accuracy : ± 1% of reading End Connection : 1/2 INCH NPT Isolation Valves : Required, 1/2 INCH NPT (F), SS Ball valve Make : Wika/Odin/Waaree</p>			
2(8)	<p>8) LOW OIL LEVEL ALARM SWITCH: A change of liquid level correspondingly travels the float to extreme level UP and DOWN. This movement of float in turn causes a magnet to move into the proximity of Micro Switch, resulting in switch actuation. Medium: liquid, crude oil. Switch Housing Aluminum Alloy Service : Level alarm in BMS Operative Mode: Snap Action, maximum rating 5A Process connection: 2" ANSI 150 class RF Flange Electrical Connection: ½"NPT Float & Linkage 316 SS / 304 SS Max. Pressure 14.06 Kg/Sq.cm, (200 psi) Max. Working Temperature: 180 Degree F Power Supply: 24 DC IP: 65 & flameproof to gas Gr.IIA, IIB or IIC,Zone-1 Statutory approval: As per OMR-2017 (Ref special note point: IX Note: Bidder may also provide cage type level switch</p>			

<p><u>2(9)</u></p>	<p>9) HIGH OIL TEMPERATURE SWITCH WITH THERMO WELL: Service: High Temperature alarm in BMS Enclosure: Die cast Aluminium, weatherproof IP: 65 & flameproof to gas Gr.IIA, IIB or IIC, Zone-1 Range: 0 to 100 Deg C (32 to 212 Deg F) Sensor: Vapour Pressure / Gas filled thermal system actuating a 316L SS Bellows Wetted parts: 316 SS bulb Repeatability + 1% FSR Connection: To Thermowell Thermo well Material : 316 SS Thermo well Connection: ½ INCH FNPT x 1 INCH NPT (M) Power Supply: 24 DC Electrical Connection: ½"NPT Switching: SPDT micro switch, maximum rating 5A Statutory approval: As per OMR-2017 (Ref special note point: IX)</p>			
<p><u>2(10)</u></p>	<p>10) LOW & HIGH GAS PRESSURESWITCH (2 NOS.): Quantity: Individual Service : Low & High Gas Pressure alarm in BMS Enclosure: Die cast Aluminium, weatherproof IP: 65 & flameproof to gas Gr.IIA, IIB or IIC, Zone-1 Range : 0 to 40psi Enclosure: Die cast Aluminium, weatherproof IP: 65 & flameproof to gas Gr.IIA, IIB or IIC, Zone-1 Power Supply: 24 DC Electrical Connection: ½"NPT Switching: SPDT micro switch, maximum rating 5A Process connection: 1/4" NPT(F) Scale Accuracy: ± 5% FSR Sensor: Phosphor Bronze / 316L SS bellows or 316L SS diaphragm. Ambient Temp.: (-) 10°C to (+)50°C Statutory approval: As per OMR-2017 (Ref special note point: IX)</p>			
<p><u>2(11)</u></p>	<p>11) SIGHT GLASS WITH DRAIN COCKS: Liquid level gauge glass assembly (tubular type/magnetic type) for indication of interface level complete with cocks and gauge glass shall be enclosed type and suitably protected to avoid external damage. Quantity: 3 Nos.</p>			

<u>2(12)</u>	12) TUBES AND FITTINGS (1 LOT): Seamless SS316 instrumentation tubes and double compression double ferrule fittings for the pneumatic connections. Make: Swagelok, Parker, Sanvik			
<u>2(13)</u>	13) TECHNICAL SPECIFICATIONS FOR BURNER MANAGEMENT SYSTEM FOR EMULSION TREATERS (ET): The BMS controller will be used to primarily control and monitor the complete ignition and firing sequence of the burners installed in the ET. It will monitor the presence of pilot flame and will shut off the fuel gas flow if the flame goes out. An auto re-light will try to re-ignite the burner up to three times if there is a flame failure. There will be provisions for dedicated alarm inputs for low fluid level, high bath temperature and low as well as high gas pressure that can be user configurable. The burners shall be designed with atmospheric (natural draft) appliances up to 10,000,000 Btu/H and shall be suitable to functioning with the following quality of natural gas available at site:			
<u>2(13)</u>	Composition of Fuel Gas: CONSTITUTION Range by % VOLUME Methane 85.7 - 93.52 Ethane 2.45 - 6.55 Propane 1.28 - 3.12 Nitrogen 0.53 - 1.21 Carbon-dioxide 0.01 - 0.57 Iso-Butane 0.31 - 0.75 N-Butane 0.4 - 1.14 Iso-Pentane 0.19 - 0.47 N-Pentane 0.17 - 0.38 Hexane 0.34 - 1.16 Gravity 0.6204 -0.6919 Gross Calorific Value 9636.8- 10590.8 Kcal/SCUM Net Calorific Value 8704.3- 9595.4 Kcal/SCUM Moisture content: 21.0 - 120.0 LB/MMCFT (336.0- 1992.0 KG/MMSCM)			

<u>2(13)</u>	<p>Technical Specifications for BMS:</p> <p>1) Approvals CSA: Class 1 Division 2 Groups C & D. T4 (BMS Controller) - CSA: C22.2 No. 199 (Combustion Safety Controls and Solid-State Igniters for Gas and Oil Burning Equipment)</p> <p>2) Operating Temperature: -40 to +50°C.</p> <p>3) Maximum Test Press: 25 PSI</p> <p>4) Operating Fuel Gas Pressure: 10 Psi(Max)- Natural Gas</p> <p>5) Housing and Parts Materials: Aluminium/SS.</p> <p>6) Power supply: 230VAC available at site. However, BMS system shall be operable at 12- 30VDC power.</p> <p>7) Display type: LCD/Vacuum Fluorescent Display (VFD) with Full Text Message.</p> <p>8) Operator control: Industrial positive action tactile feedback buttons (Start, Stop, Menu etc.)</p> <p>9) Pilot Nozzle : Perforated Tip</p> <p>10) Ignition Module : The Ignition module shall be separately installed in a non-hazardous location, inside the burner housing or other non- hazardous location to meet the requirements for a certified Combustion Safety Control as required by B149.3.</p> <p>11) Solenoid ratings: 12 VDC or 24 VDC</p> <p>12) Ignition cable: 10 feet min.</p> <p>13) Communications RS 232/485 (Modbus) Remote Communications for monitoring and on/off control only. Multidrop communications via RS485. (Optional)</p> <p>14) Safety alarms:</p> <p>1 x Low Pressure alarm</p> <p>1 x High Pressure alarm</p> <p>1 x Low Liquid Level alarm</p> <p>1 x High Temperature alarm</p> <p>1 x Flame failure alarm</p>			
<u>2(14)</u>	<p>14) PILOT BURNER (2 NOS.):</p> <p>Connection : 1/2 inch NPT</p> <p>Function : To provide pilot flame in the Natural gas fired Heater vessel</p>			
<u>2(15)</u>	<p>15) PILOT GAS REGULATOR (2 NOS.):</p> <p>Function : To provide regulated gas supply to the Pilot Burner</p> <p>Process connection : 6mm (1/4inch)</p> <p>Maximum Inlet Pressure: 100 psi</p> <p>Outlet Pressure : Adjustable full range</p>			

<u>2(16)</u>	<p>16) FUEL SHUT-OFF VALVE (1 NO.): Function : Fuel shut-off in case of pilot flame failure in Natural gas fired Heater vessels Body material : Ductile Iron A-395 End connections : 1" NPT (F) Case material : Cast Aluminium Diaphragm material : Nylon reinforced Buna-N diaphragm Max. Working Pressure: 100 PSI Packing : Standard O-Ring, Buna-N Stem material : 303 Stainless Steel Plug type : Soft plug for tight shut-off</p> <p>Note: The said valves shall be provided with manual isolation & bypass valves.</p>			
<u>2(17)</u>	<p>17) TEMPERATURE CONTROL VALVE WITH POSITIONER: Function : Fuel control of the main burner gas line in conjunction with the temperature controller. Body material : Ductile Iron A-395 End connections : 1" NPT (F) Case material : Cast Aluminium Diaphragm material : Nylon reinforced Buna-N diaphragm Max. Working Pressure: 100 PSI Packing : Standard O-Ring, Buna-N Stem material : 303 Stainless Steel Plug type : Soft plug for tight shut-off</p> <p>Note: The said valves shall be provided with manual isolation & bypass valves.</p>			
<u>2(18)</u>	<p>18) MAIN FUEL GAS REGULATOR (1 NO.): Input Supply : 50 - 100 psi Output : 0- 30 psi adjustable Connection : 1" NPT (F)</p>			
<u>2(19)</u>	<p>19) PRESSURE GAUGES IN MAIN FUEL LINE BEFORE AND AFTER REGULATOR: Range : 0 -100 psi Dial Size : 100 mm (4") Connection Size : 1/2 INCH Material of Construction: All SS</p>			

<u>2(19)</u>	20) PRESSURE GAUGES IN PILOT FUEL LINE AFTER REGULATOR: Range : 0- 20 psi Dial Size : 100 mm (4") Connection Size : 1/4 INCH Material of Construction: All SS			
C. SPECIFICATION OF FLAME ARRESTED BURNER [(Qty: 2 NOS. for 01 No. Emulsion Treater): Flame Arrested Burner Assembly, comprising of Flame Arrestor Housing complete with necessary burner equipment/accessories i.e. main and pilot burners, mixers etc., suitable for abovementioned EMULSION TREATER, as detailed below:				
<u>C(1)</u>	1. The Flame Arrested Burner Assembly shall be to suit the following conditions: a. Furnace capacity: 1,125,000 BTU/Hr. (Net) b. Temperature of Bath: 26 Deg.C to 90 Deg.C c. Calorific value of natural gas: 1000 BTU/ft3 d. Burner Gas Pressure: 0.7 - 1.05 Kg/Cm2 (10-15psi			
<u>C(2)(a)</u>	2. The Flame Arrestor Housing shall be as detailed below: a. Fire Tube : 'U' type Fire Tube, 12"dia, as per drawing no. OIL/1582(Copy attached).			
<u>C(2)(b)</u>	b. The flame arrestor housing shall be "O" style, 2-piece, hinged (one no left hinged and one no right hinged, total two nos for each ET), Flame cell dia 26", suitable for fire tube dia 12", of Make & model Flameco SB26/18-12 or Wenco SB26/18-12, or Black Gold Rush FA-26-12-I-HL&HR.			
<u>C(2)(c)</u>	c. The flame arrestor housing shall be made out of such material that will withstand outdoor field conditions like rains, ambient temperature of minimum 5 deg.C and maximum 45 deg.C and should not crack or get damaged due to rapid uneven cooling / heating. Gaskets, wherever used, should be gas tight, so that leaks do not occur that can impair the safety of the installation			
<u>C(2)(d)</u>	d. The flame arrestor housing shall be provided with necessary lifting lug.			
<u>C(2)(e)</u>	e. The flame arrestor housing shall be provided with necessary sight glass to check the pilot flame.			
<u>C(2)(f)</u>	f. The flame arrestor housing shall be provided with couplings of different sizes on body of the flame arrestor for fuel gas supply connections.			
<u>C(2)(g)</u>	g. A separate spool or extended flame arrestor neck shall be required to be fitted with the flame arrestor to avoid fouling with the Emulsion Treater chimney			

<u>C(2)(h)</u>	h. The orientation of the flange bolting of the flame arrestor housing shall be suitable for 'U' type Fire Tube as per drawing no. OIL/1582(Copy attached).			
<u>3</u>	3. The main burner shall be as detailed below: a. Mixture Assembly: 101.6 mm (4") Eclipse Model: H-16 or equivalent. b. Burner Nozzle : 101.6 mm (4") sticktite Model: ST-216-84 or equivalent. c. Burner Orifice : 6.75 mm (17/64"). d. Burner Pipe Nipple : 101.6 mm (4") of suitable length			
<u>4</u>	4. The pilot burner shall be as detailed below: a. Pilot Burner Assembly: 6.35mm (1/4") Wenco Series 1000 or Equivalent b. Pilot Orifice size : 70 c. Pilot Pipe Nipple : 6.35mm (1/4") of suitable length.			
<u>5</u>	5. Please refer to Special Terms & Conditions for more information.			
<u>6</u>	6. Price of Flame Arrested Burner should be included with main item.			

PROFORMA – 1

Format for Undertaking by Bidders towards compliance of office memorandum F. No. 6/18/2019-PPD dated 23rd July, 2020 (Public Procurement no. 1) issued by Department of Expenditure, Ministry of Finance, Govt. of India

(To be typed on the letter head of the bidder)

Ref. No. _____

Date: _____

Tender No. _____

Date: _____

OIL INDIA LIMITED
MATERIALS DEPARTMENT,
DULIAJAN, ASSAM, INDIA

Dear Sirs,

We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; We certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. We hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. [Where evidence of valid registration by the Competent Authority shall be attached.]”

We also agree that, during any stage of the tender/contract agreement, in case the above information/documents submitted by us are found to be false, Oil India Limited has the right to immediately reject our bid/terminate contract at any stage and carry out further legal action on us in accordance with law.

Yours faithfully,

For (type name of the firm here)

Signature of Authorised Signatory

Name :

Designation :

Phone No.

Place :

Date :

(Affix Seal of the Organization here, if applicable)

Note : This form should be returned along with offer duly signed.

PROFORMA-2

FORMAT FOR CERTIFICATE OF COMPLIANCE OF FINANCIAL CRITERIA

Ref: **Financial Criteria of the BEC**

Tender No.: _____

I the authorized signatory(s) of (Company or firm name with address) do hereby solemnly affirm and declare as under:-

The balance sheet/Financial Statements for the financial year _____ (as the case may be) has actually not been audited as on the Original Bid closing Date.

Place :

Date :

Signature of the authorized signatory

Note: This certificate is to be issued only considering the time required for preparation of Financial Statements i.e. if the last date of preceding financial / accounting year falls within the preceding six months reckoned from the original bid closing date.

PROFORMA-3

CERTIFICATE OF ANNUAL TURNOVER & NET WORTH

TO BE ISSUED BY PRACTISING **CHARTARD ACCOUNTANTS' FIRM** ON THEIR LETTER HEAD

TO WHOM IT MAY CONCERN

This is to certify that the following financial positions extracted from the audited financial statements of M/s.....(Name of the bidder) for the last three (3) completed accounting years upto**(as the case may be)** are correct

YEAR	TURN OVER In INR (Rs.) Crores	NET WORTH In INR (Rs.) Crores

Place:

Date:

Seal

Membership No:

Registration Code:

UDIN:

Signature

NOTE: As per the guidelines of ICAI, every practicing CA is required to mention Unique Document Identification Number (UDIN) against each certification work done by them. Documents certified by CA without UDIN shall not be acceptable.

PROFORMA-4

PARENT/ULTIMATE PARENT/ HOLDING COMPANY'S CORPORATE GUARANTEE TOWARDS FINANCIAL STANDING (Delete whichever not applicable)

(TO BE EXECUTED ON COMPANY'S LETTER HEAD)

DEED OF GUARANTEE

THIS DEED OF GUARANTEE executed at this day of by M/s.....(mention complete name) a company duly organized and existing under the laws of (insert jurisdiction/country), having its Registered Office at hereinafter called "the Guarantor" which expression shall, unless excluded by or repugnant to the subject or context thereof, be deemed to include its successors and permitted assigns.

WHEREAS M/s. Oil India Limited (hereinafter referred to as OIL) has invited offers vide their Tender No. _____ for _____ and M/s _____ (Bidder) intends to bid against the said tender and desires to have Financial support of M/s _____ [Parent/Ultimate Parent/Holding Company(Delete whichever not applicable)] and whereas Parent/Ultimate Parent/Holding Company(Delete whichever not applicable) represents that they have gone through and understood the requirements of subject tender and are capable and committed to provide the Financial support as required by the bidder for qualifying and successful execution of the contract, if awarded to the bidder.

Now, it is hereby agreed by the Guarantor to give this Guarantee and undertakes as follows:

1. The Guarantor confirms that the Bidder is a 100% subsidiary of the Guarantor.
2. The Guarantor agrees and confirms to provide the Audited Annual Reports of any of the preceding 03(three) financial/accounting years reckoned from the original bid closing date.
3. The Guarantor have an annual financial turnover of minimum INR _____ Cr or USD _____ during any of the preceding 03(three) financial/ accounting years reckoned from the original bid closing date.
4. Net worth of the Guarantor is positive for preceding financial/ accounting year.
5. The Guarantor undertakes to provide financial support to the Bidder for executing the project/job, in case the same is awarded to the Bidder.
6. The Guarantor represents that:

- (a) this Guarantee herein contained shall remain valid and enforceable till the satisfactory execution and completion of the work (including discharge of the warranty obligations) awarded to the Bidder.
- (b) the liability of the Guarantor, under the Guarantee, is limited to the 100% of the order value between the Bidder and OIL. This will, however, be in addition to the forfeiture of the Performance Guarantee furnished by the Bidder.
- (c) this Guarantee has been issued after due observance of the appropriate laws in force in India.
- (d) this Guarantee shall be governed and construed in accordance with the laws in force in India and subject to the exclusive jurisdiction of the courts of New Delhi, India.
- (e) this Guarantee has been given without any undue influence or coercion, and that the Guarantor has fully understood the implications of the same.

(f) the Guarantor has the legal capacity, power and authority to issue this Guarantee and that giving of this Guarantee and the performance and observations of the obligations hereunder do not contravene any existing laws.

for and on behalf of
(Parent/Ultimate Parent/Holding Company)
(Delete whichever not applicable)

for and on behalf of
(Bidder)

Witness:

- 1.
- 2.

Witness:

- 1.
- 2.

INTEGRITY PACT

Between

Oil India Limited (OIL) hereinafter referred to as "The Principal"

And

(Name of the bidder).....hereinafter referred to as "The Bidder/Contractor"

Preamble:

The Principal intends to award, under laid down organizational procedures, contract/s for **Tender No.....** The Principal values full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

In order to achieve these goals, the Principal cooperates with the renowned international Non-Governmental Organization "Transparency International" (TI). Following TI's national and international experience, the Principal will appoint an external independent Monitor who will monitor the tender process and the execution of the contract for compliance with the principles mentioned above.

Section: 1 -Commitments of the Principal

(1) The Principal commits itself to take all measures necessary to prevent corruption and to observe the following principles:

- (i) No employee of the Principal, personally or through family members, will in connection with the tender for, or the execution of a contract, demand, take a promise for or accept, for him/herself or third person, any material or immaterial benefit which he/she is not legally entitled to.
- (ii) The Principal will, during the tender process treat all Bidders with equity and reason. The Principal will in particular, before and during the tender process, provide to all Bidders the same information and will not provide to any Bidder

confidential/additional information through which the Bidder could obtain an advantage in relation to the tender process or the contract execution.

- (iii) The Principal will exclude from the process all known prejudiced persons.

(2) If the Principal obtains information on the conduct of any of its employees which is a criminal offence under the relevant Anti-Corruption Laws of India, or if there be a substantive suspicion in this regard, the Principal will inform the Chief Vigilance Officers and in addition can initiate disciplinary actions .

Section: 2 -Commitments of the Bidder/Contractor

(1) The Bidder/Contractor commits itself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the tender process and during the contract execution.

- (i) The Bidder/Contractor will not, directly or through any other person or firm, offer, promise or give to any of the Principal's employees involved in the tender process or the execution of the contract or to any third person any material or immaterial benefit which h e/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the tender process or during the execution of the contract.
- (ii) The Bidder/Contractor will not enter with other Bidders into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, Subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- (iii) The Bidder (s) / Contractor (s) will not commit any offence under the relevant Anticorruption Laws of India, further, the Bidder (s) / Contractor (s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the Principal as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

- (iv) The Bidder/Contractor will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract.
 - (v) Bidders to disclose any transgressions with any other company that may impinge on the anti-corruption principle.
 - (vi) The Bidder (s)/ Contractor (s) of foreign origin shall disclose the name and address of the Agents/ representatives in India, if any. Similarly, the Bidder (s)/ Contractor (s) of Indian Nationality shall furnish the name and address of the foreign principals, if any. Further, all the payments made to the Indian agent/ representative have to be in India Rupees only.
 - (vii) Bidders not to pass any information provided by Principal as part of business relationship to others and not to commit any offence under PC/ IPC Act;
- (2) The Bidder/Contractor will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- (3) The Bidder/Contractor signing Integrity Pact shall not approach the Courts while representing the matters to IEMs and he/she will await their decision in the matter.

Section 3 -Disqualification from tender process and exclusion from future Contracts

If the Bidder, before contract award has committed a transgression through a violation of Section 2 or in any other form such as to put his reliability or risibility as Bidder into question, the Principal is entitled to disqualify the Bidder from the tender process or to terminate the contract, if already signed, for such reason.

1. If the Bidder/Contractor has committed a transgression through a violation of Section 2 such as to put his reliability or credibility into question, the Principal is entitled also to exclude the Bidder/Contractor from future contract award processes. The imposition and duration of the exclusion will be determined by the severity of the transgression. The severity will be determined by the circumstances of the case, in particular the number of transgressions, the position of the transgressions within the company hierarchy of the Bidder and the

amount of the damage. The exclusion will be imposed for a minimum of 6 months and maximum of 3 years.

2. The Bidder accepts and undertakes to respect and uphold the Principal's Absolute right to resort to and impose such exclusion and further accepts and undertakes not to challenge or question such exclusion on any ground, including the lack of any hearing before the decision to resort to such exclusion is taken. This undertaking is given freely and after obtaining independent legal advice.

3. If the Bidder/Contractor can prove that he has restored/recouped the Damage caused by him and has installed a suitable corruption prevention system, the Principal may revoke the exclusion prematurely.

4. A transgression is considered to have occurred if in light of available evidence no reasonable doubt is possible.

5. Integrity Pact, in respect of a particular contract, shall be operative from the date Integrity Pact is signed by both the parties till the final completion of the contract **or as mentioned in Section 9- Pact Duration whichever is later**. Any violation of the same would entail disqualification of the bidders and exclusion from future business dealings. **Any issue relating to execution of contract, if specifically raised before the IEMs shall be looked into by IEMs.**

Section 4 -Compensation for Damages

1. If the Principal has disqualified the Bidder from the tender process prior to the award according to Section 3, the Principal is entitled to demand and recover from the Bidder liquidated damages equivalent to Earnest Money Deposit / Bid Security.

(2) If the Principal has terminated the contract according to Section 3, or if the Principal is entitled to terminate the contract according to Section 3, the principal shall be entitled to demand and recover from the Contractor liquidated damages equivalent to Security Deposit / Performance Bank Guarantee.

3. The bidder agrees and undertakes to pay the said amounts without protest or demur subject only to condition that if the Bidder/Contractor can prove and establish that the exclusion of the Bidder from the tender process or the termination of the contract after the contract award has caused no damage or less damage than the amount or the liquidated damages, the Bidder/Contractor shall compensate the Principal only to the extent of the damage in the amount proved.

Section 5 -Previous transgression

1. The Bidder declares that no previous transgression occurred in the last 3 years with any other Company in any country conforming to the TI approach or with any other Public Sector Enterprise in India that could justify his exclusion from the tender process.
2. If the Bidder makes incorrect statement on this subject, he can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

Section: 6 -Equal treatment of all Bidders/Contractor/Subcontractors

1. The Principal will enter into Pacts on identical terms with all bidders and contractors.
2. The Bidder / Contractor undertake(s) to procure from all subcontractors a commitment in conformity with this Integrity Pact. The Bidder/Contractor shall be responsible for any violation(s) of the provisions laid down in this agreement/Pact by any of its sub-contractors/sub-vendors.
3. The Principal will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Section: 7 -Criminal charges against violating Bidders/Contractors/Subcontractors

If the Principal obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor, which constitutes corruption, or if the Principal has substantive suspicion in this regard, the Principal will inform the Vigilance Office.

Section: 8 -External Independent Monitor/Monitors

1. The Principal appoints competent and credible external independent Monitor for this Pact. The task of the Monitor is to review independently and objectively, whether and to what extent the parties comply with the obligations under this agreement.
2. The Monitor is not subject to instructions by the representatives of the parties and performs his functions neutrally and independently. He reports to the Chairperson of the Board of the Principal.

3. The Contractor accepts that the Monitor has the right to access without restriction to all Project documentation of the Principal including that provided by the Contractor. The Contractor will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor is under contractual obligation to treat the information and documents of the Bidder/Contractor/Subcontractor with confidentiality. **However, the documents/records/information having National Security implications and those documents which have been classified as Secret/Top Secret are not to be disclosed.**
4. The Principal will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the Principal and the Contractor. The parties offer to the Monitor the option to participate in such meetings.
5. As soon as the Monitor notices, or believes to notice, a violation of this agreement, he will so inform the Management of the Principal and request the Management to discontinue or heal the violation, or to take other relevant action. The monitor can in this regard submit non-binding recommendations. Beyond this, the Monitor has no right to demand from the parties that they act in a specific manner, refrain from action or tolerate action. However, the Independent External Monitor shall give an opportunity to the bidder / contractor to present its case before making its recommendations to the Principal.
6. The Monitor will submit a written report to the Chairperson of the Board of the Principal within 8 to 10 weeks from the date of reference or intimation to him by the 'Principal' and, should the occasion arise, submit proposals for correcting problematic situations.
7. If the Monitor has reported to the Chairperson of the Board a Substantiated suspicion of an offence under relevant Anti-Corruption Laws of India, and the Chairperson has not, within reasonable time, taken visible action to proceed against such offence or reported it to the Vigilance Office, the Monitor may also transmit this information directly to the Central Vigilance Commissioner, Government of India.
8. The word 'Monitor' would include both singular and plural.
9. **In case of any complaints referred under IP Program, the role of IEMs is advisory and would not be legally binding and it is restricted to resolving the issues raised by an intending bidder regarding any aspect of the tender which allegedly restricts competition or bias towards some bidder.**

Section:9 -Pact Duration

This Pact begins when both parties have legally signed it. It expires for the Contractor 12 months after the last payment under the respective contract, and for all other Bidders 6 months after the contract has been awarded.

If any claim is made/ lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged/determined by Chairperson of the Principal.

Section:10 -Other provisions

1. This agreement is subject to Indian Law. Place of performance and jurisdiction is the Registered Office of the Principal. The Arbitration clause provided in the main tender document / contract shall not be applicable for any issue / dispute arising under Integrity Pact.

2. Changes and supplements as well as termination notices need to be made in writing. Side agreements have not been made.

3. If the Contractor / Bidder is a Joint Venture or a partnership concern or a consortium, this agreement must be signed by all partners or consortium members. In case of sub-contracting, the Principal contractor shall take the responsibility of the adoption of IP by the sub-contractor and all sub-contractors shall also sign the IP.

4. Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions.

5. Issues like warranty / guarantee, etc. shall be outside the purview of IEMs.

Date : For the Bidder/Contractor
Place :	Witness 1:
	Witness 2: