



Oil and Natural Gas Corporation Limited

**NOTICE INVITING EXPRESSION OF INTEREST FROM
VESSEL CLEANING CONTRACTORS FOR ADVANCE
CLEANING OF SEPARATORS AND VESSELS AT MUMBAI
HIGH OFFSHORE PROCESS PLATFORMS.**

EOI document No.:

Asset/SEPCLN/EOI/2026EOI issuance date: 10 August 2026

Last date for submission of EOI: 31 August 2026

Expression of Interest

1.0 Background

- 1.1 Oil and Natural Gas Corporation Limited (hereinafter called 'ONGC') is engaged in exploration and production of oil and gas in the western offshore fields in the Arabian Sea on the continental shelf of Western India. Western offshore field consists of two Assets viz. Mumbai High Asset and NH & BS Asset; and comprise of an extensive infrastructure of wellhead platforms, process platforms and pipeline networks.
- 1.2 ONGC intends to take up internal cleaning and inspection for its pressure vessels at process complex under MH asset using advanced vessel cleaning techniques.

2.0 Objective

- 2.1 The objective of this EOI is to invite interest from experienced contractors who have proven capability in executing offshore vessel advanced cleaning methods, to participate in a pilot project.
- 2.2 The pilot aims to:
- Reduce turnaround time associated with vessel cleaning and enhance cleaning effectiveness and operational efficiency.
 - Assess feasibility of alternative cleaning methods in offshore conditions.
- 2.3 Seek views and suggestions on a time efficient strategy of cleaning pressure vessels in offshore environment to enhance turnaround efficiency and asset performance.
- 2.4 Information obtained through interaction with interested parties and feedback from this EOI will help ONGC towards **identifying capable vendors and advanced technologies** for vessel cleaning, with the potential for wider implementation across Mumbai High assets.

3.0 Criteria / Technical details of vessel

- 3.1 ONGC seeks an Expression of Interest (EOI) from **reputed Vessel cleaning contractors**, who have the requisite experience, technical and financial capabilities to provide the advance cleaning services.
- 3.2 The Contractor shall complete the cleaning of each separator vessel within the not to exceed duration stated in below table, unless otherwise agreed.

Timeline for internal cleaning & inspection

Sl. No.	Volume of the vessel in Cu m	The timeline for cleaning, inspection & hydro testing without repairing job from zero date (in days)
1	More than 100	8

- 3.3 Contractor shall select methods for advance cleaning in consideration with following vessel parameters. The vessel selection may change during finalization.

Sl. No	Vessel Description	Tag No.	Service	Orientation	Insulation	Dimensions (mm)
1	LP Separator	V-400	HC	Horizontal	Insulated	Dia. 3240 TL to TL. 9670
2	HP Separator A	V - 210	HC	Horizontal	Insulated	Dia. 3880 TL to TL. 10700
3	HP Separator B	V - 220	HC	Horizontal	Insulated	Dia. 3880 TL to TL. 10700

Vessel Metallurgy (Typical)

Sl. No.	Vessel	Metallurgy
1	SHELL, HEAD	SA 516 Gr. 70 / SA 516 Gr. 60
2	R.F. PADS	SA 516 Gr. 70 / SA 516 Gr. 60
3	NOZZLE NECKS	SA 106 Gr. B
4	NOZZLE FLANGES	SA 105
5	BOLTS & NUTS INT.	SS 316
6	REMOVABLE INTERNALS	SS 316 L
7	INT. PIPING	SS 316
8	VORTEX BREAKER	SA 516 Gr. 70 / SA 516 Gr. 60
9	FLANGED JOINTS SEALING	Non-asbestos filler material (likely graphite/PTFE)

- 3.4 The proposed cleaning method / selected chemical shall be compatible with Vessel metallurgy both metallic and non-metallic components, ensuring no adverse impact on the separator vessel or its internals.
- 3.5 Past Project Data: Contractor to share past project information or reports of similar pressure vessels offshore, having same vessel metallurgy and size.
- 3.6 Given that the deposits are predominantly inorganic, primarily consisting of calcium carbonate scale and iron-based compounds such as carbonates, sulphides, and oxides, with minor organic content.

Composition of deposit (indicative)

Sl. No.	Solid Deposit	Composition %
1	Inorganic components are mainly: • Calcium carbonate scale • Iron carbonate, oxide & sulphide	~ 90% to 95%
2	Organic component	~ 5% to 10%

Note: Composition details of the vessels are indicative, based on historical data from the field; it may vary as per actual site conditions.

- 3.7 Lab Test report of Cleaning Chemistry: Contractor to share past project information or reports of chemistry used for similar pressure vessels offshore, having same vessel metallurgy.

4.0 Broad Scope of work:

4.1 The typical scope of work includes but not limited to following:

- a) Execution of advanced cleaning of separator vessels, utilizing a range of techniques including, but not limited to, chemical cleaning, vapor phase cleaning, steam-assisted cleaning, and hybrid cleaning methods.
- b) The Contractor shall have flexibility to propose and implement innovative or optimized cleaning methodologies, including combinations of advanced cleaning techniques and conventional mechanical cleaning methods.
- c) Supply of cleaning equipment and chemicals (as applicable).
- d) Material Procurement.
- e) Logistics: Inspection, testing, load out, transportation and supply of materials to ONGC's supply base
- f) Tie-in / Tie-off of cleaning equipment to Separator vessel
- g) Controlled reduction of hydrocarbon concentration (LEL) within the vessel
- h) Removal of sludge, wax, scale, and residual hydrocarbons and cleaning of hard-to-access internals
- i) Handling, treatment, and disposal of effluents and waste as per environmental requirements
- j) Support in capturing post-cleaning performance data for evaluation
- k) Complete project management
- l) Inspection completion and handover

4.2 Execution Scope

The execution scope for the proposed pilot is to supply cleaning equipment / skid and consumables / chemicals, and to perform cleaning operation to demonstrate efficient restoration of separator vessel performance through advanced cleaning methods, while minimizing operational disruption, safety risks, and turndown time.

a) Planning:

The Contractor shall identify vessel hook-up points and ensure alignment with ONGC through execution philosophy / plan.

b) Logistics:

Contractor shall be responsible for logistics (sea freight, road transport, and storage) of materials to ONGC's supply base and Handover to ONGC at port for onward transfer to offshore platform.

ONGC shall be arranging the supply of vessel support as required for transportation of material to offshore platforms.

Space is limited adjacent to vessels to be cleaned. Contractor to limit footprint as low as practicable. Further space may be available at remote locations however suitable transfer hoses would be required. Contractor to provide dimensions and weight of all equipment for feasibility analysis.

c) Process Isolation:

ONGC shall perform pressure vessel isolation and handover to contractor for hook-up and cleaning operation.

d) Cleaning Operation:

Contractors will be required to hook-up the skid / equipment at the finalized hook up point and perform cleaning operation.

e) Waste Management and Environmental Compliance:

The contractor shall take into account the environmental parameters for disposal and ensure that effluents are adequately treated and meet the required standards prior to discharge into the sea.

In case the effluent is not suitable for discharge, the Contractor shall bring in DNV tanks (ISO) for transportation back to the onshore facility for disposal.

f) Inspection and Documentation:

Demonstrate cleaning effectiveness through visual inspection or suitable verification methods and subsequent inspection. Also provide an assessment of cleaning effectiveness.

g) Safety:

Contractor shall comply with ONGC offshore Safety requirements. ONGC Offshore SHE plan & permitting system shall apply during the offshore execution / operation.

The Contractor shall ensure that all personnel have mandatory safety training and hold necessary certifications before being mobilized for offshore deployment.

h) The Contractor shall specify any support or preparatory requirements to be provided by ONGC, including, but not limited to, utilities such as electrical power, compressors, DM water, and utility air/gas necessary for the cleaning skid operations.

5.0 Supplementary information regarding the present EOI provided as below

Annexure-1: Vessel drawings

Annexure-2: Sample photos

Annexure-3: Presentation Outline

6.0 Information Sought:

- a) Participating entities should demonstrate the capability of their product to address ONGC's specific requirement of advanced vessel cleaning for Mumbai High field pilot as indicated above
- b) Participating entities should provide documentation of relevant contracts executed / in progress.
- c) Information as sought in the Presentation Outline annexed herein.

7.0 Bidders Contact Details

Name of concerned person	
Designation	
Telephone Number	
Mobile Number	
Address	
E-mail	

8.0 General Information and Instructions:

8.1 This EOI is non-binding in nature and submission of information should not be considered as shortlisting / selection for company in any subsequent RFP/ Tender/Bid Process that may be undertaken in future.

8.2 ONGC reserves the right to terminate EOI process at any point of time without assigning reason.

8.3 ONGC reserves the right to accept, modify or reject the suggestions presented / submitted against the EOI while finalizing and fine-tuning specifications, terms and conditions and scope of work for the tender.

8.4 It is clarified that mere response to EOI, or enlistment through EOI does not guarantee award of job. ONGC will make No payment towards preparation / submission / presentation in connection with EOI. ONGC shall not charge any bid processing fees for EOI. It is also clarified that Notice Inviting tender comprising complete Tender Documents shall be uploaded separately after completing the process of EOI.

9.0 Confidentiality

All information received by ONGC as part of EOI will be ONGC's property and shall be kept confidential and utilized for its internal purpose only.

This statement is submitted by:

Name:

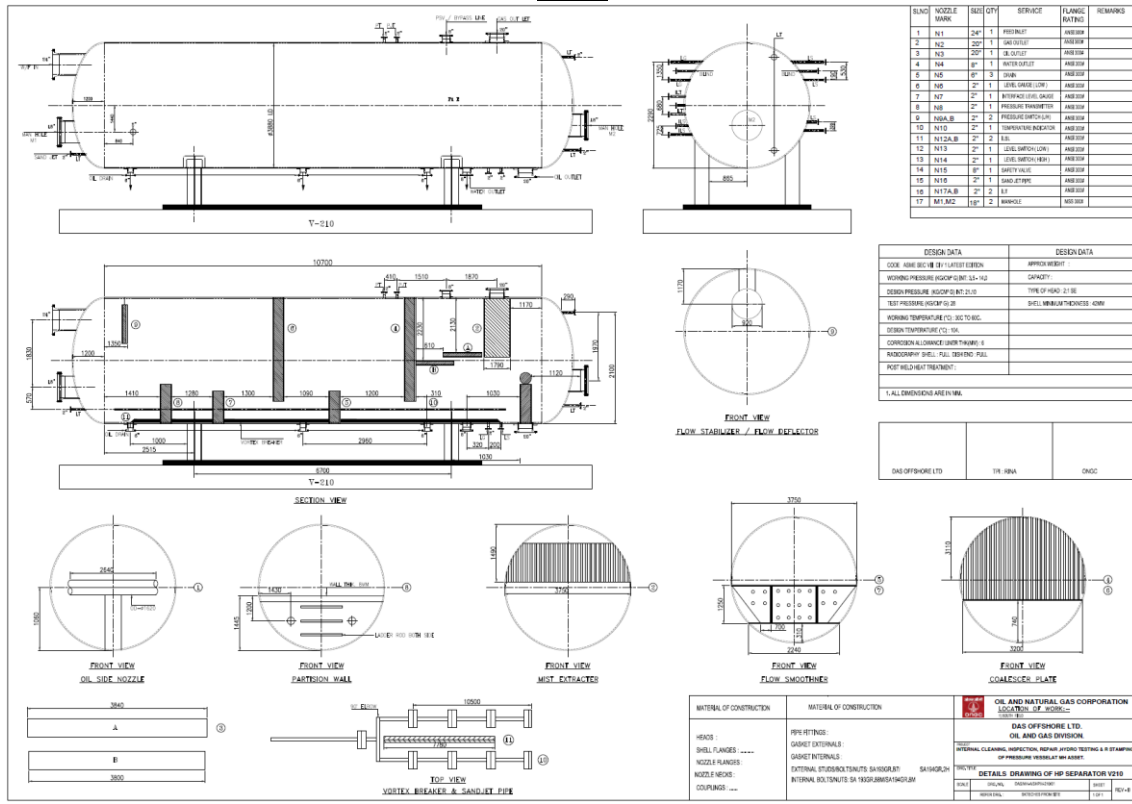
Signature and Date:

Position / Designation in the Company:

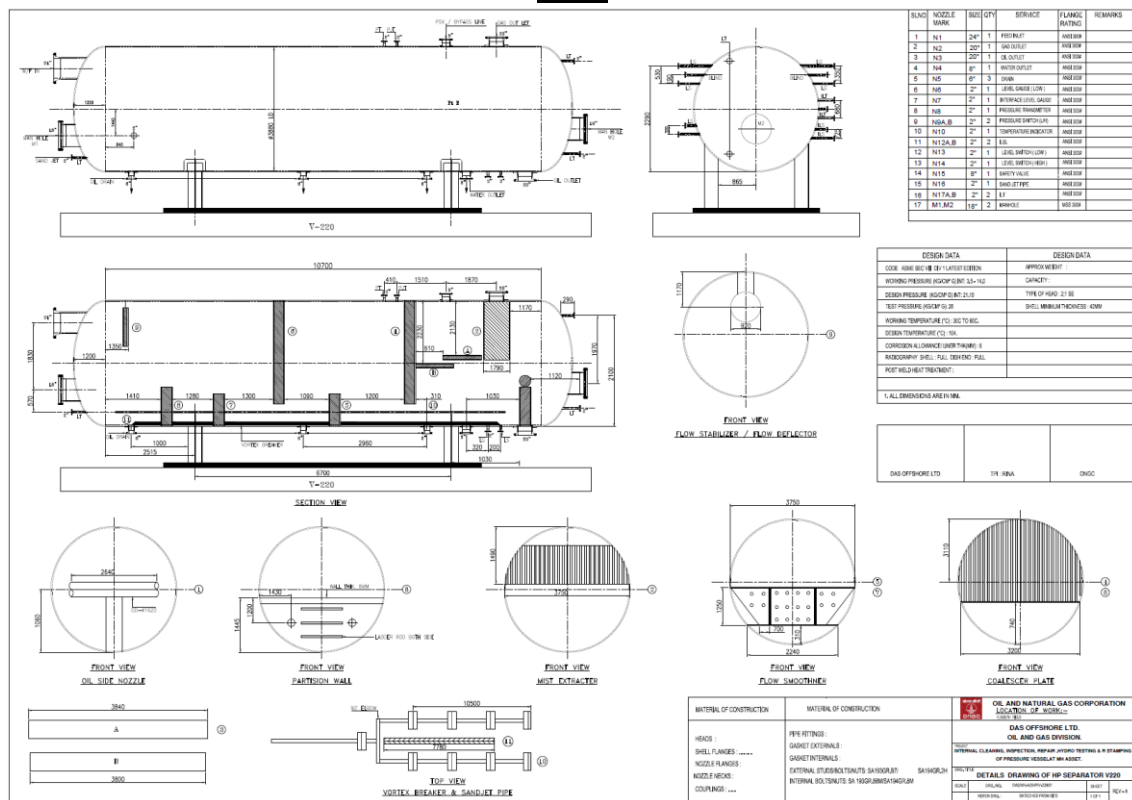
Company Stamp:

ANNEXURE-1: VESSEL DRAWINGS

V-210



V-220



V-400 (snap-1)

No.	PART		NAME OF PARTS	MATERIAL		REMARKS	WEIGHT (KG)
	B	A		USED			
1	1		SHELL	SA516 Gr.70		35 ^t	03-01 7376
1	2		↓	↑		35 ^t	-02 7103
1	3		SHELL			35 ^t	03-01 7376
1	4		HEAD			38 ^t	08-01 3745
1	5		HEAD			38 ^t	08-01 3745
2	6		PAD	SA516 Gr.70		19 ^t	13-01 390
2	8		SADDLE	SA283 Gr.C		19 ^t	18-01 542
4	9		↓	↑		19 ^t	-02 24
2	10		SADDLE			19 ^t	-03 16
1	11		BASE PLATE			25 ^t	-04 343
1	12		BASE PLATE	SA283 Gr.C		25 ^t	18-04 343
1	13		MOMENTUM REDUCER	SA516 Gr.70		20 ^t	13-07 90
8	14		M36x100 SET BOLT	JIS SS41		JIS B 1180	1-18
8	15		M36 NUT	JIS SS41		JIS B 1181 CLASS 1	0-38
1	16		NAME PLATE BRACKET	SA516 Gr.70		6 ^t	13-07 4.8
	17						
	18						
	19						
	20						
	21						
	22						
	23						
	24						
	25		NOZZLE	SEE DIAG.		DATE No. REV. 1-503329 3	
	26		M-1 MANHOLE			2-503568 3	
	27		M-2 MANHOLE			2-503579 3	
	28		INTERNAL			1-503331 3	
	29		SAND JET			2-503577 3	
	30		NAME PLATE			3-500410 1	
	31		EXTERNAL LUG	↓		2-503593 3	
	32						
	33						
	34						
	35						

FINAL



D AS MARK	AUG-18-83	H. MIYAHARA	H. KUNIKIDA				
D AS MARK	MAY-05-83	H. MIYAHARA	H. KUNIKIDA				
D AS MARK	MAR. 19-83	H. MIYAHARA	H. KUNIKIDA	387303	A	32126	
REVISIONS	DATE	DWN.	CHKD.	APPD.	WORK No.	FAB No.	TOTAL WT.

BOLT HOLES TO STRADDLE
CENTER LINES (C.L.).

3 NO WELDING IS PERMITTED AFTER PWHT OF THE VESSEL.

4 INSULATED AREAS ARE PAINTED PRIMER ONLY. NOTE

4 INSULATED AREAS ARE PAINTED PRIMER ONLY.

5 A CORROSION ALLOWANCE SHALL BE ADDED TO ALL SURFACES TO BE EXPOSED TO PROCESS

NOTE

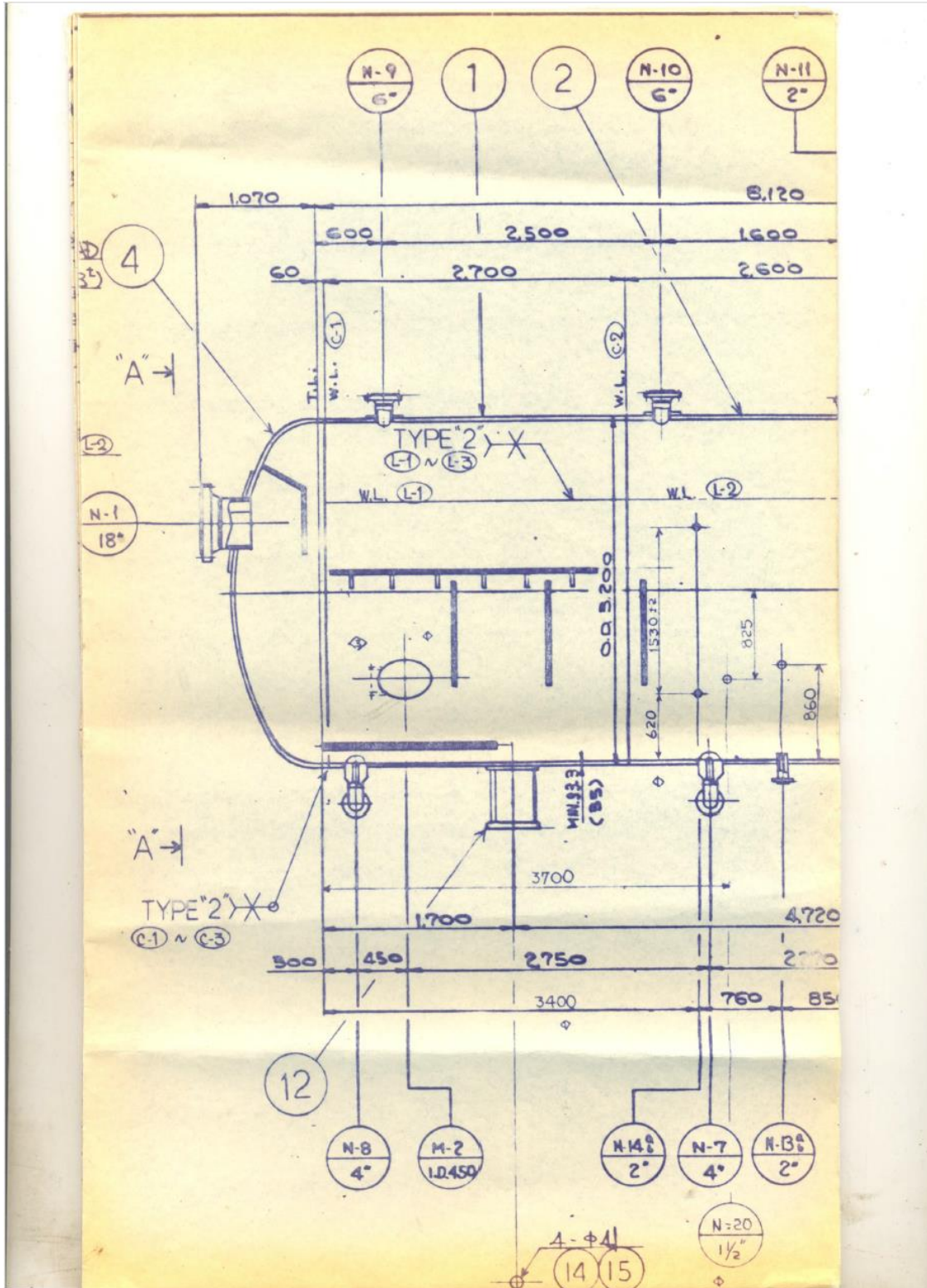
1. CODE SHALL BE ASME CODE SEC. VIII DIV. 1, 1980 EDITION INCLUDING UP TO 1982 SUMMER ADDENDA.

2. VENT HOLE OF SADDLE PAD SHALL BE PLUGGED WITH HEAVY GREASE AFTER THE HYDROSTATIC TEST.

DESIGN DATA			
CODE	ASME SEC III DIV.1	WIND LOAD	45.9 m/sec.
CODE STAMP	QES	SEISMIC COEFF.	0.12
APPLICABLE SPEC.	1922-S-C-S-328 REV D	LETHAL SERVICE	QD
FLUID NAME	CRUDE OIL	EXPLOSIVE SERVICE	QES
OPERATING PRESS./TEMP.	45.3 kg/cm ² 40°C	CORROSIVE SERVICE	QES
DESIGN PRESS./TEMP.	21.1 kg/cm ² 104°C	LOW TEMP. SERVICE	QD
HAZP (NEW & OLD) LIMITED BY HEAD	26.35 kg/cm ² G		
HYDROSTATIC TEST PRESS.	(3100) 31.5 kg/cm ² G	CAPACITY	APP. 71 m ³
PNEUMATIC TEST PRESS.	- kg/cm ² G	EMPTY	37300 kg
STRESS RELIEF AFTER FORM.	QES	WEIGHT	79500 kg
RADIOGRAPHY	QES 100 %	FULL OF WATER	108300 kg
JOINT EFFICIENCY	1.0	QUANTITIES	1 set
CORROSION ALLOWANCE	5.0 mm		
SURFACE PREPARATION	SSPC-SP-5		
PAINTING	TOTAL PAINT THK MIN. 12 - MAX. 15 MILS (DRY)	POUTAWIDE 5-8 MILS (DRY)	POUTAWIDE
INSULATION (HOT, COLD)	QES	100% HIGH - BUILD EPOXY (2M) - CURED HIGH - BUILD EPOXY (3M)	



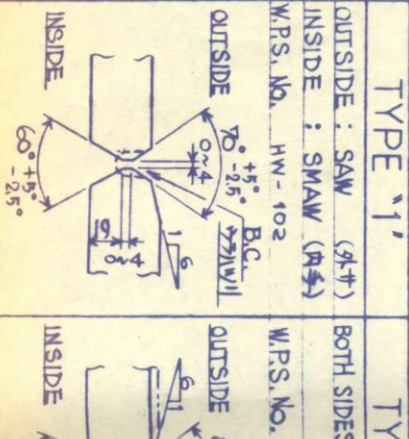
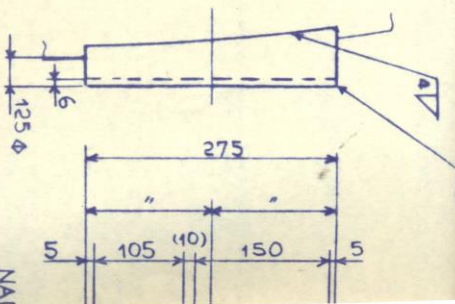
V-400 (snap-3)



[illegible]

MARK	NO.	SIZE	RATING	TYPE & FACE	SCH.	SERVICE	REMARKS
N-2	1	ID 450	ANSI 300	WN-RF	R 15	MANHOLE	1900 W/HINGE
M-1	1	ID 450		WN-RF	R 15	MANHOLE	SEE TAG W DAVIT
N-20	1	1 1/2"		LVN-RF	-	T.I.	1571
N-19	2	1 1/2"		LVN-RF 0V WN-RF	XX-S7B	L.S.L.	1750
N-18	2	2"				L.T.	
N-17	2	2"		LVN-RF 0V WN-RF	XX-S7B	I.L.S.L.	
N-16	2	1 1/2"		LVN-RF	-	L.S.H.	
N-15	1	1 1/2"		LVN-RF	-	P.S.H.L.	
N-14	2	2"		LVN-RF 0V WN-RF	XX-S7B	L.G.	
N-13	2	2"				I.L.G.	
N-12	2	2"		LVN-RF 0V WN-RF	XX-S7B	I.L.T.	
N-11	1	2"		LVN-RF	-	P.I.	1750
N-10	1	6"		WN-RF	Sch. 160	P.S.V.	1800
N-9	1	6"			Sch. 160	P.S.V.	1800
N-8	1	4"			Sch. 160	DRAIN	SEE TAG
N-7	1	4"			Sch. 160	DRAIN	
N-6	1	4"			Sch. 160	DRAIN	
N-5	1	16"			R 15	GAS OUTLET	EL 60W. S45 80
N-4	1	8"			Sch. 160	OIL OUTLET	
N-3	1	6"		WN-RF	Sch. 160	WATER OUTLET	
N-2	1	2"		LVN-RF	-	SAND SET	
N-1	1	18"	ANSI 300	WN-RF	R 15	FEED	SEE TAG

NOZZLE LIST

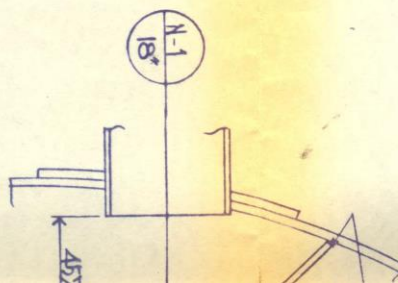
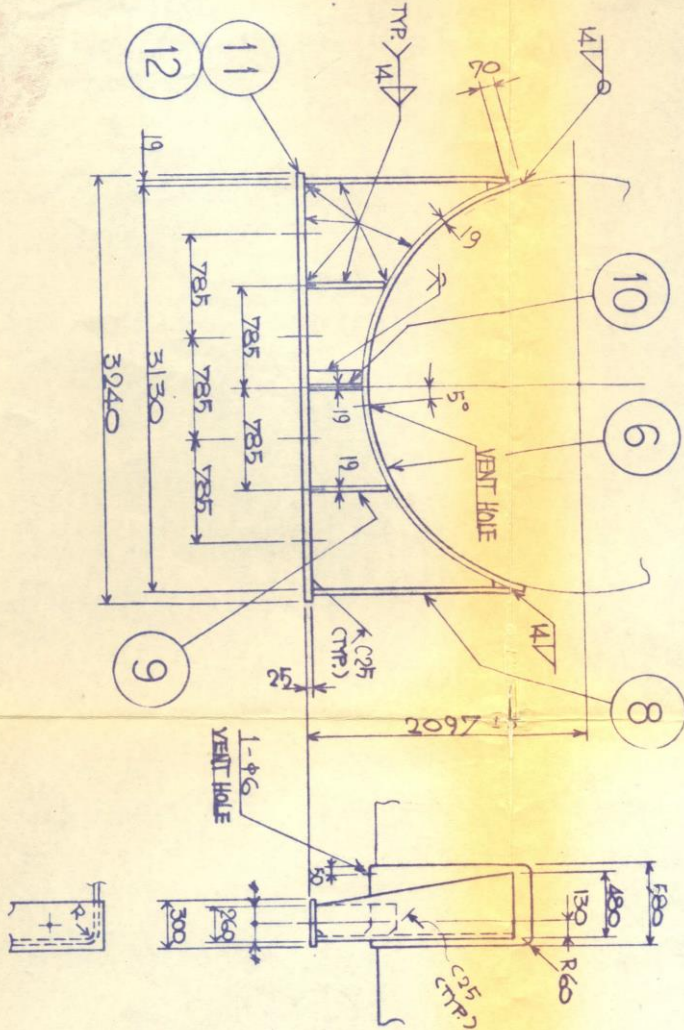


VIEW "B" - "B"

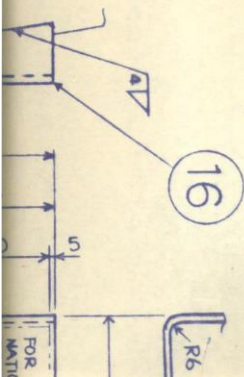
2-2

ORIENT FOR INSTRUMENT NOZZLE OF SHELL (VIEW A-A')

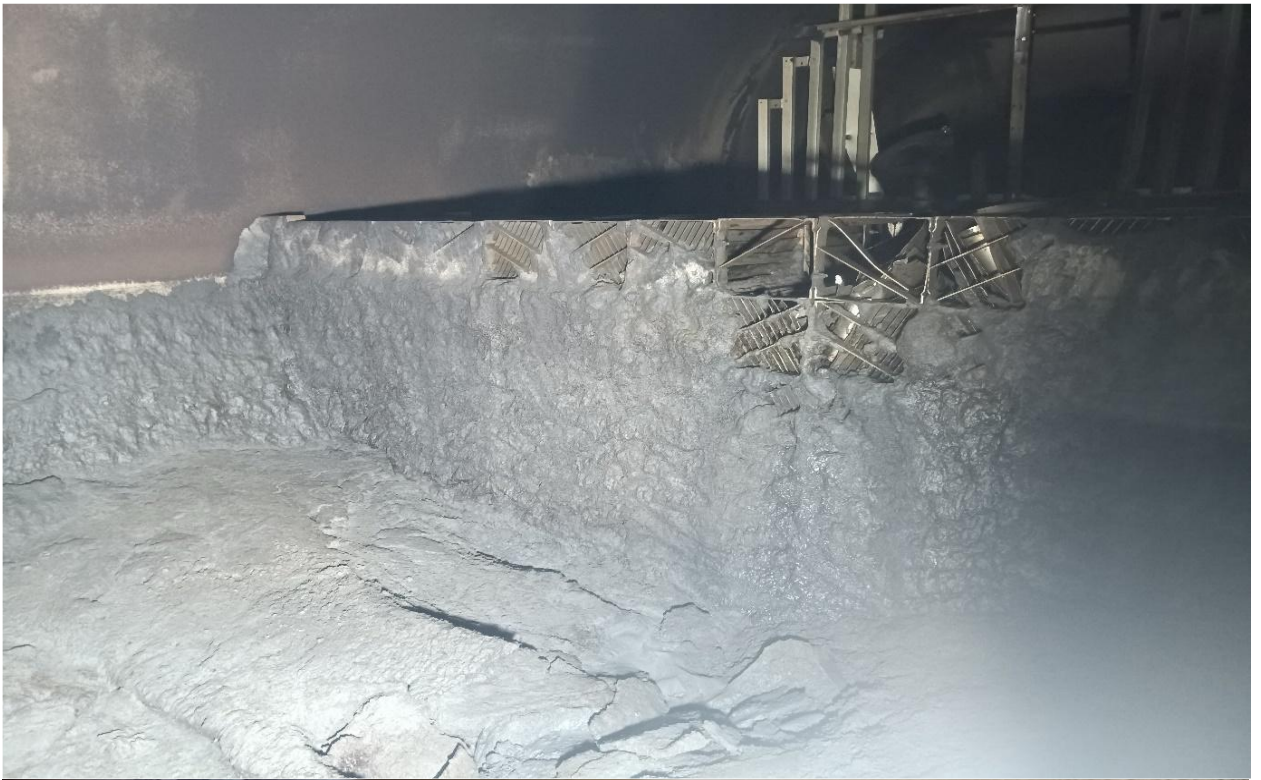
VIEW A-A'



M-2	1	ID 450	ANSI 300	WN-RF	R 15	MANHOLE	1900	W/HINGE
M-1	1	ID 450		WN-RF	R 15	MANHOLE	SEE Dwg	W/DAVIT
N-20	1	1 1/2"		WN-RF	-	T.I.	1571	
N-19	2	1 1/2"		WN-RF	XX-SNB	L.S.L.	1750	



ANNEXURE-2: SAMPLE PHOTOS





NOTICE INVITING EXPRESSION OF INTEREST FROM VESSEL CLEANING CONTRACTORS FOR ADVANCE CLEANING OF PRESSURE VESSELS AT OFFSHORE PRODUCTION PLATFORM IN MUMBAI HIGH FIELD.

Participants are requested to make presentation based on the information sought in EOI. This document defines the presentation outline purely as a pointer and the participants are free to amend and add information as they deem necessary, keeping in view the presentation time window.

Salient Points to be covered in presentation by EOI Participants

1. Company Introduction
 2. Mode of participation: Sole or in JV. In case of JV, details of all participants
 3. Experience Details:
 - A. Projects completed / ongoing wrt advance cleaning of similar pressure vessels offshore with same metallurgy, with chemistry used and completion timeline
 - B. Part of present scope coverage including:
 - Cleaning method statement & Cleaning Schematic
 - Associated Risks & Execution Schedule
 - The footprint of the Contractor equipment / skid, which needs to be installed on the deck
 - Proposed tie-in points, temporary piping & utility requirements
 - C. Specific skill sets requirement for the present scope
 - D. Potential benefits and challenges of proposed method
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Expression Of Interest

ONGC seeks an Expression of Interest (EOI) from reputed Pressure vessel cleaning Contractors either individually, or in joint venture / consortium arrangements, who have the requisite experience, technical and financial capabilities to provide the services broadly outlined in the table hereunder.

1	Services for Presser vessel cleaning: Pilot project is to supply cleaning equipment / skid and consumables / chemicals and to perform advance cleaning operation
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Proposed Contracting Strategy

SI No	Description	Mode of Contract (<i>To be deliberated</i>)
1		
2		

Bidder's views on proposed contracting strategy for the options under consideration: