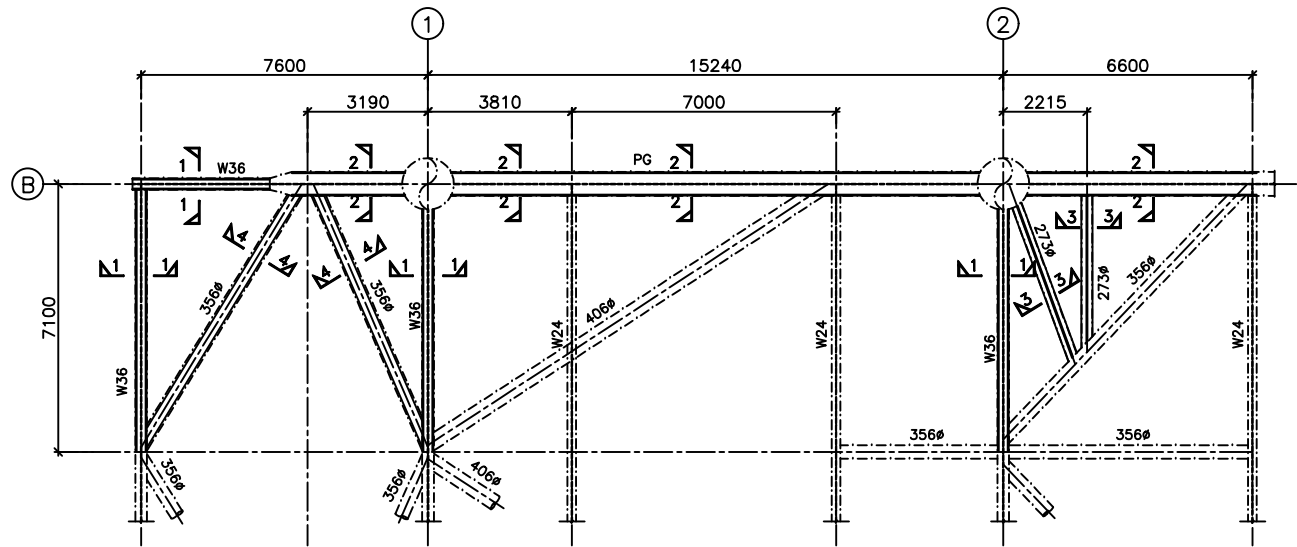


MTO for B774: Replacement / Refurbishment of Bridges											
Sr. No	BRIDGE / PLATFORM	Location	New / Replace / Strenthening	New Bridge, MT	Strenthening of existing bridge, MT	New Landing / Strenthening of Existing Deck, MT	Strenthening of Existing landing / Deck, MT	Demolition including hadrail, grating, MT	HANDRAIL, m	GRATING, m2	GI SHEETING, m2
1	ICW-ICG UD	Upper	Strenthening	0	19	0	30	25	110	58	273
2	ICW-ICG LD	Lower	New	57	0	65	0	1	118	88	0
3	ICG-ICP UD	Upper	Strenthening	0	86	0	30	25	93	49	419
4	ICG-ICP LD	Lower	New	115	0	45	0	1	176	132	0
5	BHS-SLQ	Lower	Replacement	195	0	87	0	210	88	82	332
6	SLQ-WIS	Lower	Strenthening	0	61	0	30	15	98	51	0
7	NQO-NQD		Strenthening	0	63	0	30	25	93	58	250
8	WIN-NC		Strenthening	0	6	0	40	10	45	29	0
9	SCA-SC1		Strenthening	0	35	0	28	15	88	55	0
10	SCA-SCF		Strenthening	0	91	0	28	30	257	116	0
TOTAL				367	361	197	217	357	1168	719	1274

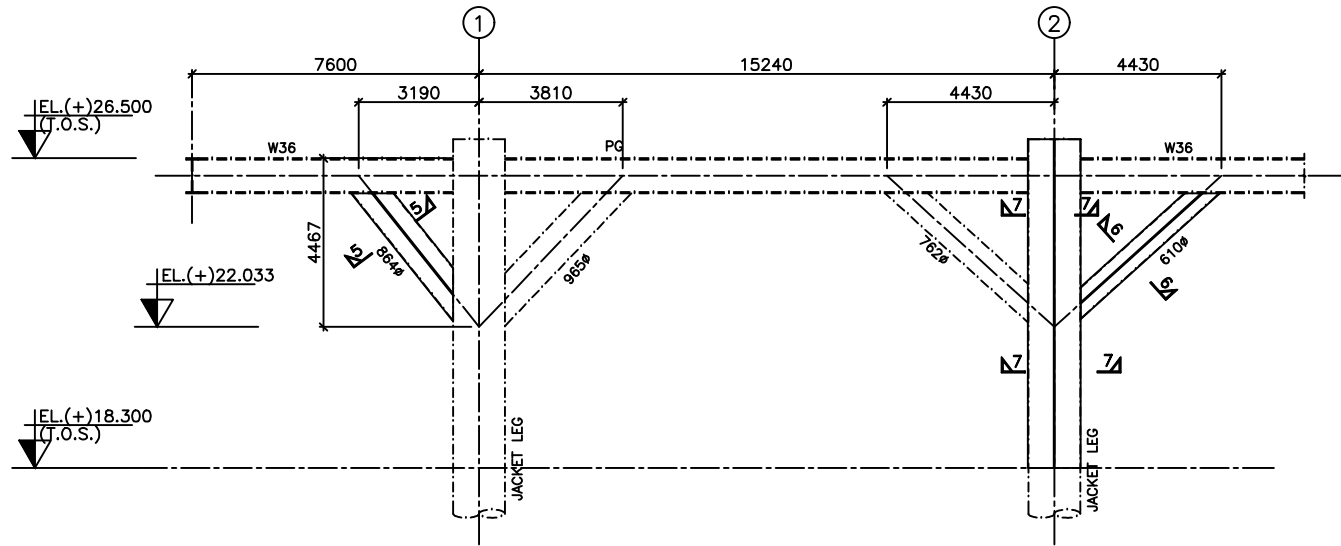


प्रस्तावित आरंभ एवं इसमें निहित डिजाइन इंजीनियर्स इंडिया लिमिटेड के अधिकार हैं। ये मात्र उधार दिए गए हैं और उधारकर्ता ने यह स्पष्ट समझौता किया है कि न तो उन्हें पुनः प्रेषित किया जाएगा, न मूल को वापसी, न उधार दिए जाएंगे, न प्रदर्शित किए जाएंगे और न ही सीमित और निजी प्रयोग के अलावा इनका कोई अन्य प्रयोग होगा और यह प्रयोग उधार देने वाले द्वारा उधारकर्ता को लिखित रूप में दी गई सहमति से होगा ।  
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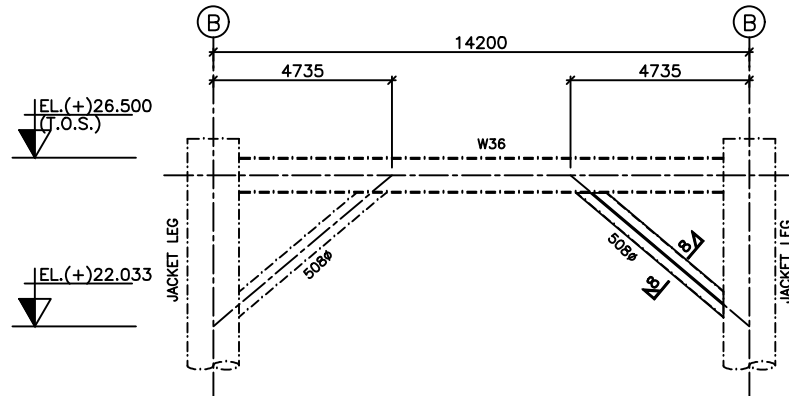
B774-101-83-43-0003



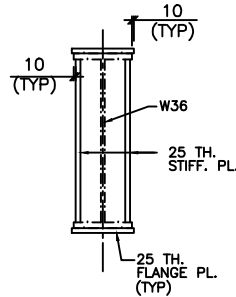
PART PLAN OF MAIN DECK AT EL(+26.500 (T.O.S.))



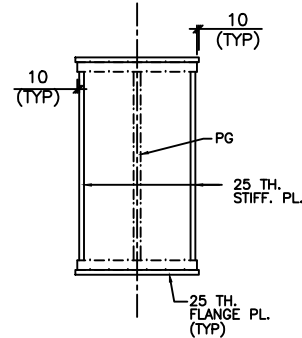
PART ELEVATION OF ROW B



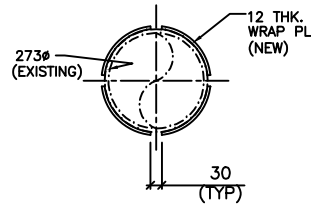
PART ELEVATION OF ROW 2



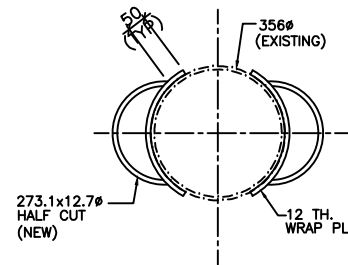
SECTION 1-1



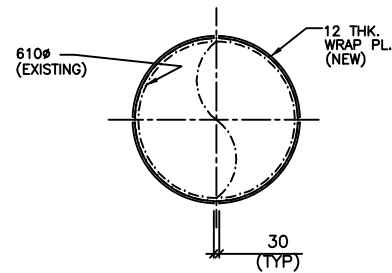
SECTION 2-2



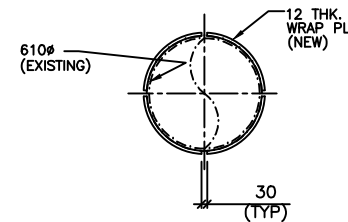
SECTION 3-3



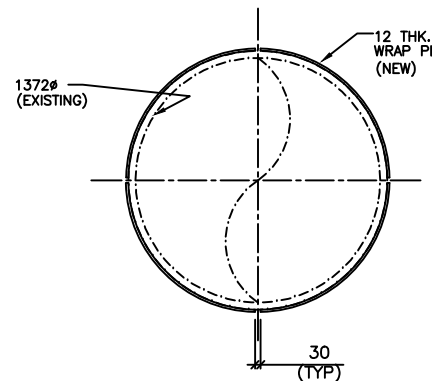
SECTION 4-4



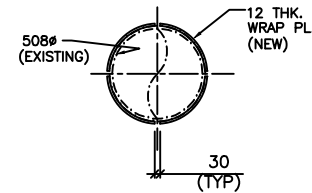
SECTION 5-5



SECTION 6-6



SECTION 7-7



SECTION 8-8

REF. DWG. NO.	REFERENCE DRAWING TITLE
ICW-70-050 TO ICW-70-059	ICW PLATFORM DECK DRAWINGS

NOTES :-

- DO NOT SCALE THE DRAWING, WORK TO DIMENSIONS ONLY.
- ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M U.N.O.
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- MATERIAL SPECIFICATIONS
  - ALL STIFFENERS, FLANGE EXTENSION PLATES ETC. SHALL BE OF SAME / HIGHER GRADE AS ELEMENT TO WHICH THEY ARE CONNECTED U.N.O.
- MATERIAL TYPES LISTED IN SC NOS SHALL CONFORM TO ONGC SPEC 6001 F.
- FABRICATOR TO ENSURE MIN 75MM CLEAR GAP B/W HE WELDS FOR CROSS BRACES AND CROSS JOINTS.
- ALL WELDS SHALL BE FULL PENETRATION WELDS.
- FOR GRATING REFER EIL STD. 7-60-0802.
- FOR HANDRAIL REFER EIL STD. 7-60-0801.

- ALL DETAILS, DIMENSIONS, LEVELS & MEMBER SIZES IN THE DRAWING ARE INDICATIVE AND ARE PROVIDED FOR BIDDERS UNDERSTANDING OF SCOPE OF WORK ONLY. ALL DETAILS SHOWN IN THE DRAWING SHALL BE VERIFIED BY CONTRACTOR DURING PRE-ENGINEERING SURVEY & DETAIL ENGINEERING SHALL BE CARRIED OUT BY CONTRACTOR FOR EXECUTION OF WORKS.
- ALL THE DIMENSIONS ARE IN MM AND LEVELS ARE IN METER (U.N.O.)

ISSUED FOR TENDER

REV.	DATE	REVISIONS	BY	CHKD	APPD	PEMPC
A	01.12.25	ISSUED FOR TENDER				

**ENGINEERS INDIA LIMITED**  
(A Govt. of India Undertaking)

**ऑयल एण्ड नेचुरल गैस कारपोरेशन लिमिटेड**  
OIL AND NATURAL GAS CORPORATION LIMITED

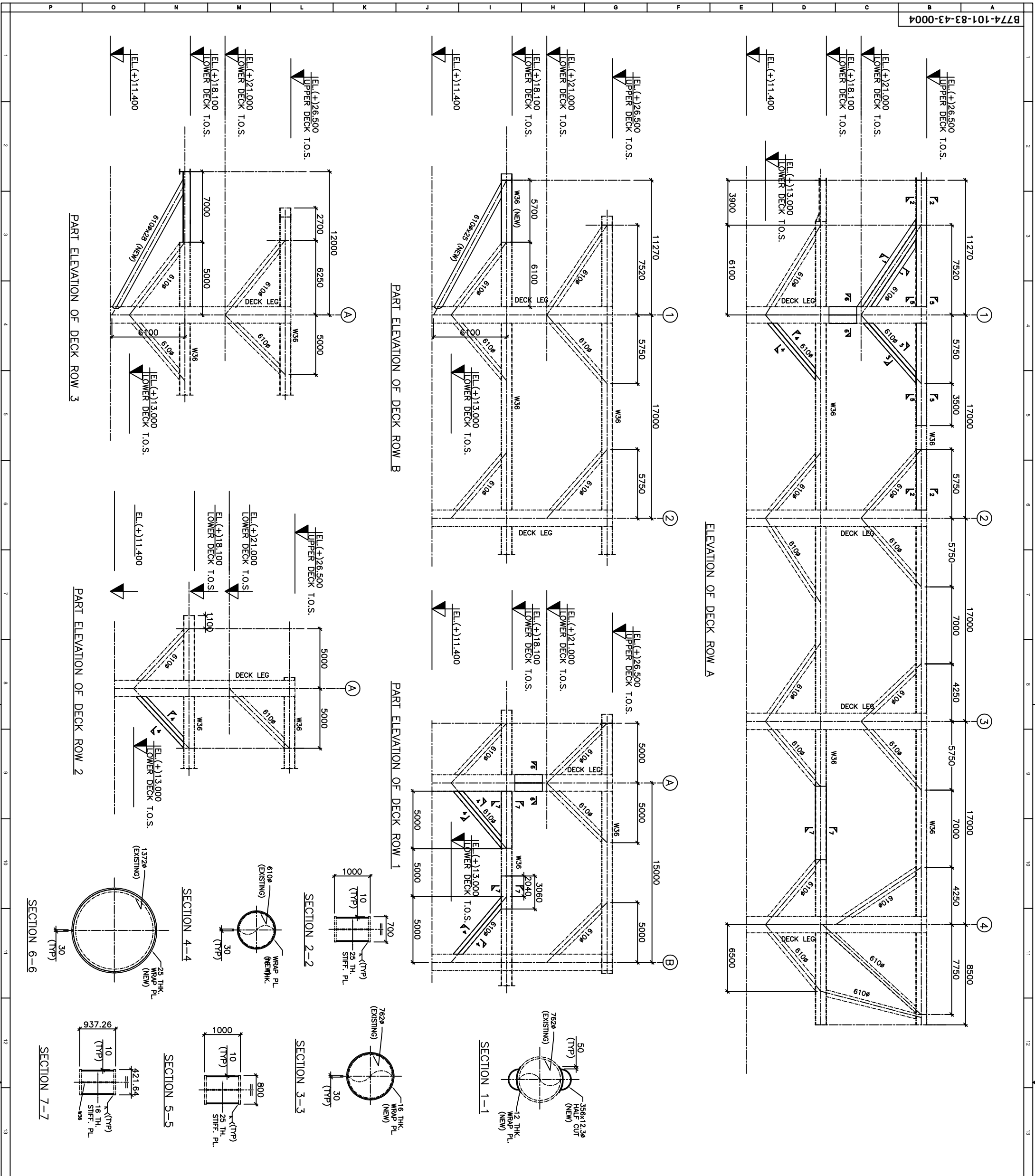
REFURBISHMENT/REPLACEMENT OF BRIDGES  
IN MH ASSET

STRENGTHENING OF ICW UPPER DECK

SCALE	JOB NO.	UNIT	DIVN.	DEPT.	DWG. NO.	REV.
1:100	B774	101	83	43	0003	A

प्रस्तुत आरेख एवं इसमें निहित विवरण इंजीनियर्स इंडिया लिमिटेड की संपत्ति हैं। ये मात्र उधार दिए गए हैं और उधारकर्ता ने यह स्पष्ट समझौता किया है कि न तो उन्हें पुनः मुद्रित किया जाएगा, न नकल की जाएगी, न उधार दिए जाएंगे, न प्रसारित किए जाएंगे और न ही सीमित और निजी प्रयोग के अलावा उनका कोई अन्य प्रयोग होगा और यह प्रयोग उधार देने वाले द्वारा उधारकर्ता को लिखित रूप में दी गई सहमति से होगा ।

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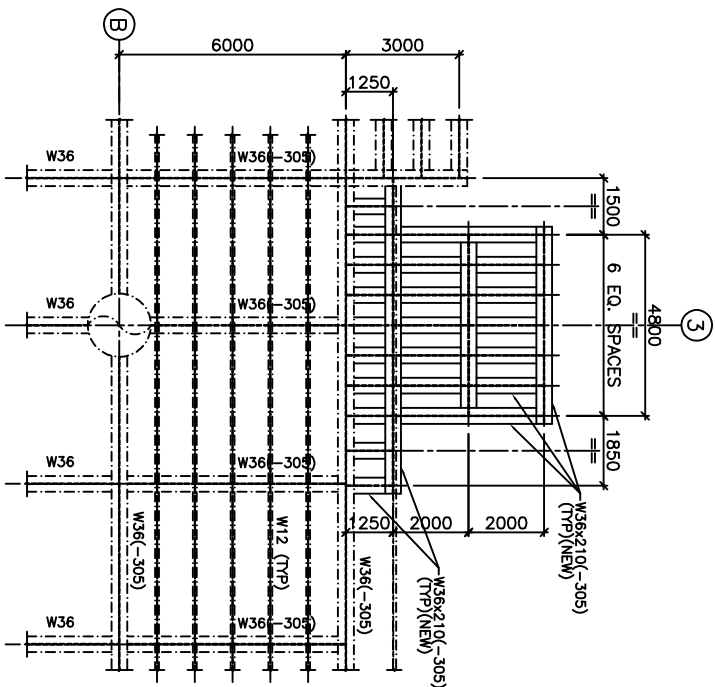


REF. DWG. NO.		REFERENCE DRAWING TITLE	
ICG-02-00-103 TO 106		DO NOT SCALE	
SCALE		JOB NO.	
1:100		B774	
UNIT		DIVN.	
101		83	
DEPT.		43	
DWG. NO.		0004	
REV.		A	
NOTES:-		1. DO NOT SCALE THE DRAWING. WORK TO DIMENSIONS ONLY.	
2. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN M U.N.O.		3. ALL ELEVATIONS ARE W.R.T. CHART DATUM (CD) 0.0M CHART DATUM FOR INDIAN WATERS SHALL BE 2.5M BELOW MEAN SEA LEVEL (MSL).	
4. MATERIAL SPECIFICATIONS		a) ALL STIFFENERS, FLANGE EXTENSION PLATES ETC. SHALL BE OF SAME / HIGHER GRADE AS ELEMENT TO WHICH THEY ARE CONNECTED U.N.O.	
5. MATERIAL TYPES LISTED IN SC NOS SHALL CONFORM TO ONCG SPEC 6001 F.		6. FABRICATOR TO ENSURE MIN 75MM CLEAR GAP B/W HE WELDS FOR CROSS BRACES AND CROSS JOINTS.	
7. ALL WELDS SHALL BE FULL PENETRATION WELDS.		8. FOR GRATING REFER EIL STD. 7-60-0802.	
9. FOR HANDRAIL REFER EIL STD. 7-60-0801.		* ALL DETAILS, DIMENSIONS, LEVELS & MEMBER SIZES IN THE DRAWING ARE INDICATIVE AND ARE PROVIDED FOR BIDDERS UNDERSTANDING OF SCOPE OF WORK ONLY. ALL DETAILS SHOWN PRE-ENGINEERING SKETCH & DETAIL ENGINEERING SHALL BE CARRIED OUT BY CONTRACTOR FOR EXECUTION OF WORKS. ALL THE DIMENSIONS ARE IN MM AND LEVELS ARE IN METER (U.N.O.)	
ISSUED FOR TENDER		* ALL DETAILS, DIMENSIONS, LEVELS & MEMBER SIZES IN THE DRAWING ARE INDICATIVE AND ARE PROVIDED FOR BIDDERS UNDERSTANDING OF SCOPE OF WORK ONLY. ALL DETAILS SHOWN PRE-ENGINEERING SKETCH & DETAIL ENGINEERING SHALL BE CARRIED OUT BY CONTRACTOR FOR EXECUTION OF WORKS. ALL THE DIMENSIONS ARE IN MM AND LEVELS ARE IN METER (U.N.O.)	
REV.		DATE	
A		09/12/28	
ISSUED FOR TENDER		BY	
MUNSHI AP		DP	
REVISIONS		BY	
CHND/APPD		P/AMC	
OIL AND NATURAL GAS CORPORATION LIMITED		REFURBISHMENT/REPLACEMENT OF BRIDGES	
IN MH ASSET		ICG LANDING AREA-MODIFICATIONS	
ENGINEERS INDIA LIMITED		A	
3-1641-0-001 REV.2 A1-041x584		18	

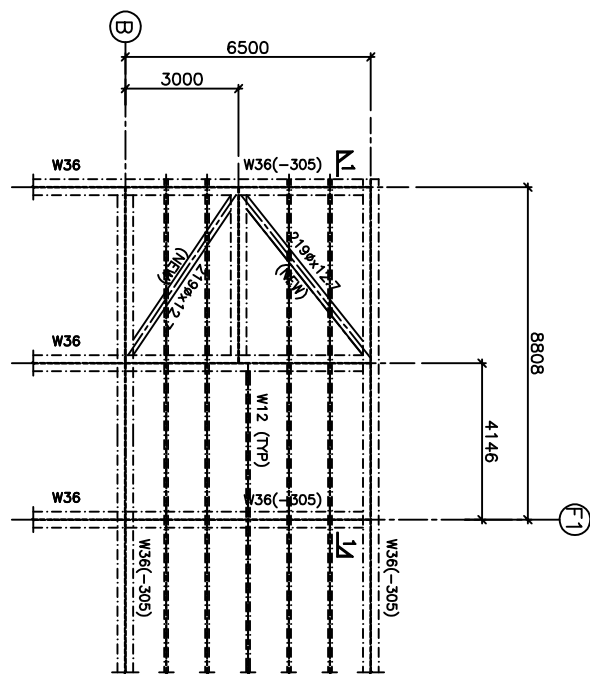


प्रस्तुत आरेख एवं इसमें निहित डिजाइन इंजीनियर्स इंडिया लिमिटेड की संपत्ति है। ये मान आधार दिए गए हैं और व्यापारकों में यह स्पष्ट समझौता किया है कि न तो उन्हें पुनः मुद्रित किया जाएगा, न नकल की जाएगी। न आधार दिए जाएंगे, न प्रदर्शित किए जाएंगे और न ही सीमित और निजी प्रयोग के अलावा इन्फार्म कोई अन्य प्रयोग होगा और यह प्रयोग उधार देने वाले द्वारा व्यापारकों को सितित्व रूप में दी गई समझौते से होगा।

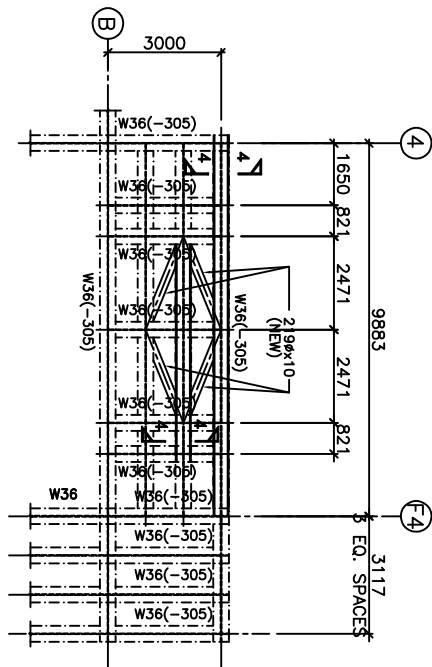
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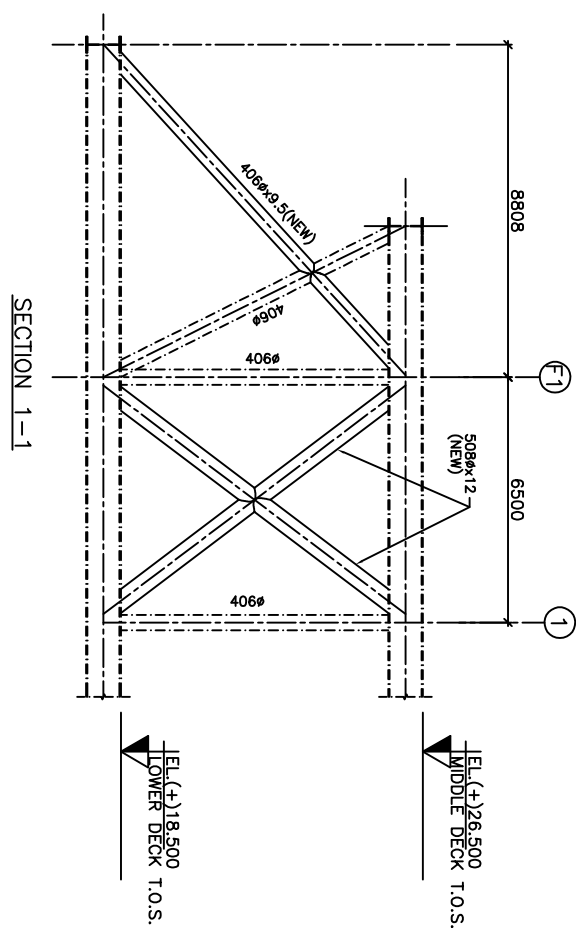
PART PLAN AT EL(+)<sup>18.500</sup> (T.O.S.)



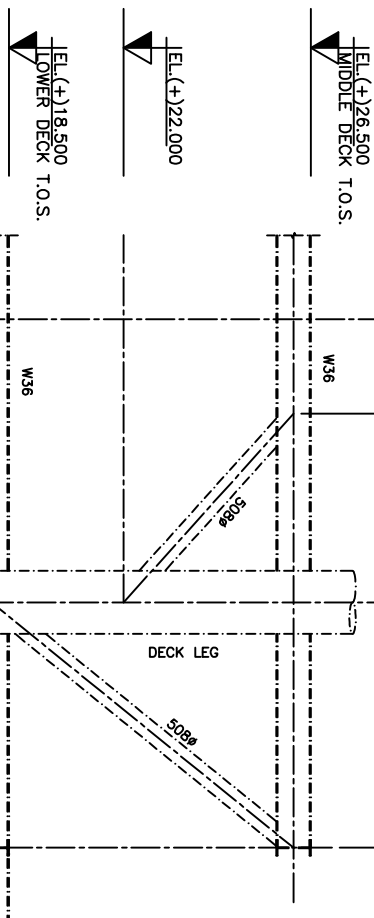
PART PLAN AT EL(+)<sup>18.500</sup> (T.O.S.)



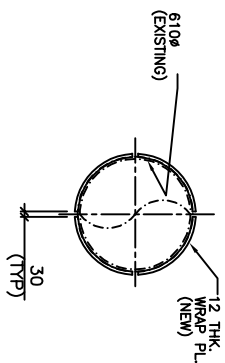
PART PLAN AT EL(+)26.500 (T.O.S.)



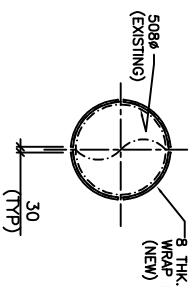
## SECTION 1-1



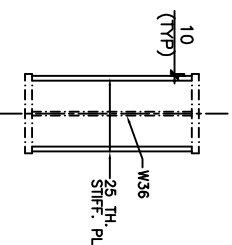
PART ELEVATION OF DECK ROW 1



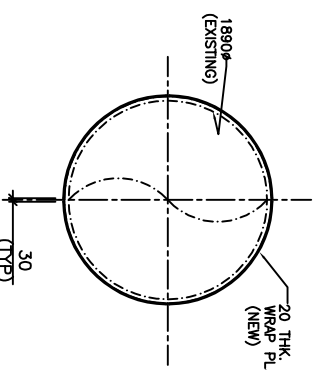
SECTION 2-2



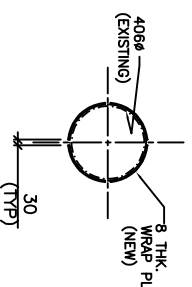
## SECTION 3-3



## SECTION 4-4



## SECTION 5-5



## SECTION 6-6

REF. DWG. NO.	REFERENCE DRAWING TITLE
14	15
	16

- NOTES :-
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  7. ALL WELDS SHALL BE FULL PENETRATION WELDS.
  8. FOR GRATING REFER ILS STD. 7-60-0802.
  9. FOR HANDRAIL REFER ILS STD. 7-60-0801.

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- \* ALL THE DIMENSIONS ARE IN MM AND LEVELS ARE IN METER (U.M.O.)

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[illegible]

**इंजीनियर्स  
इंडिया लिमिटेड**  
(A Govt. of India Undertaking)

**ऑयल एण्ड नेचुरल गैस कारपोरेशन लिमिटेड**  
**OIL AND NATURAL GAS CORPORATION LIMITED**

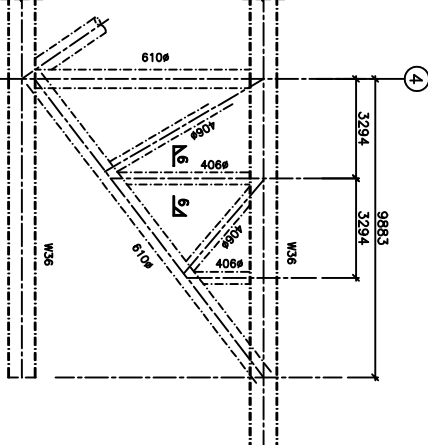
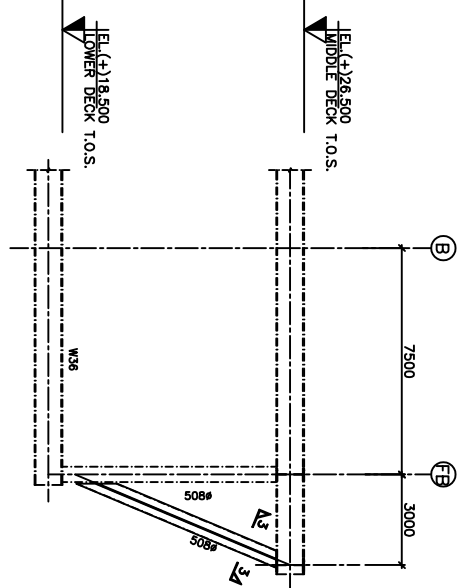
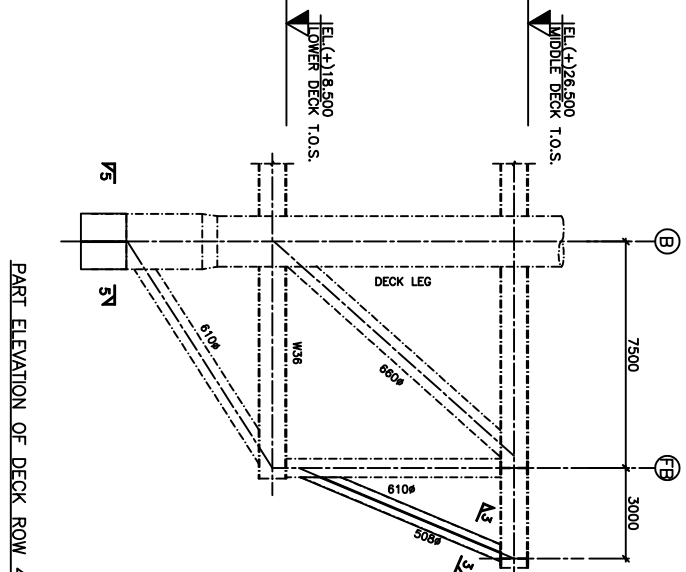
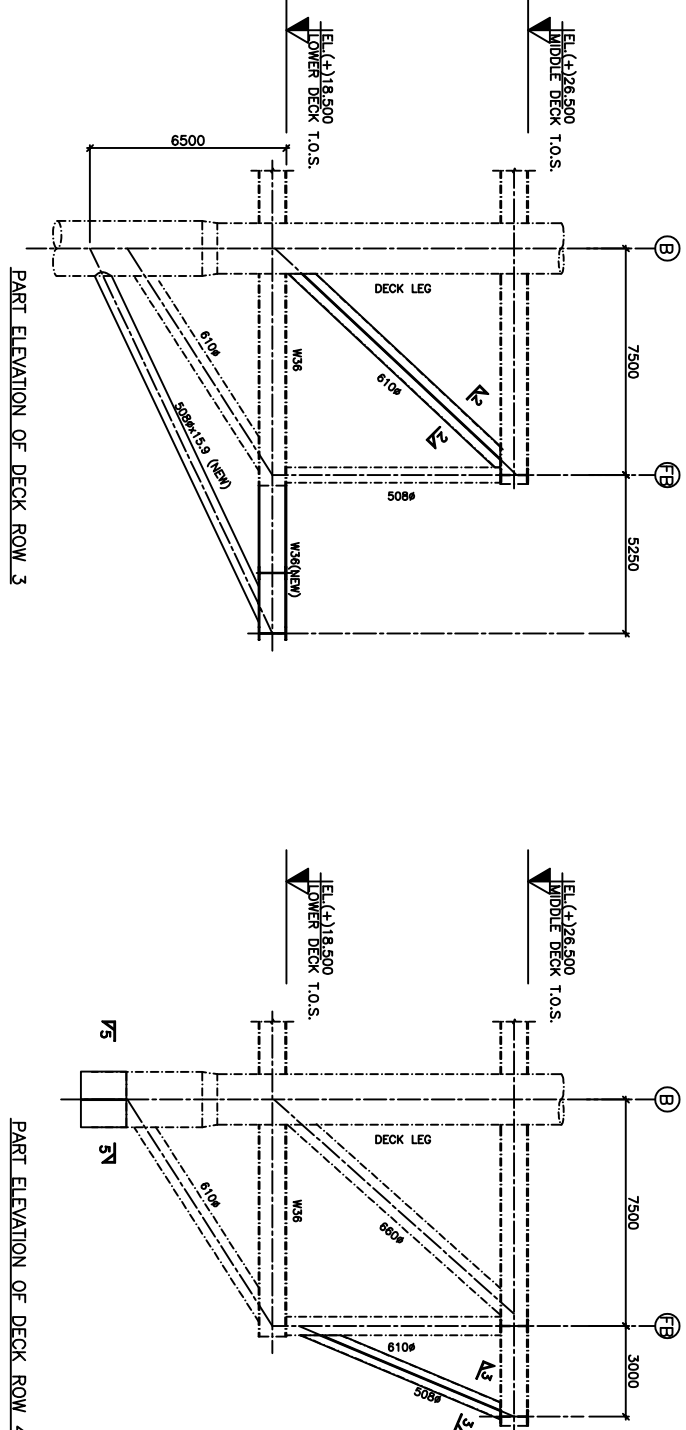
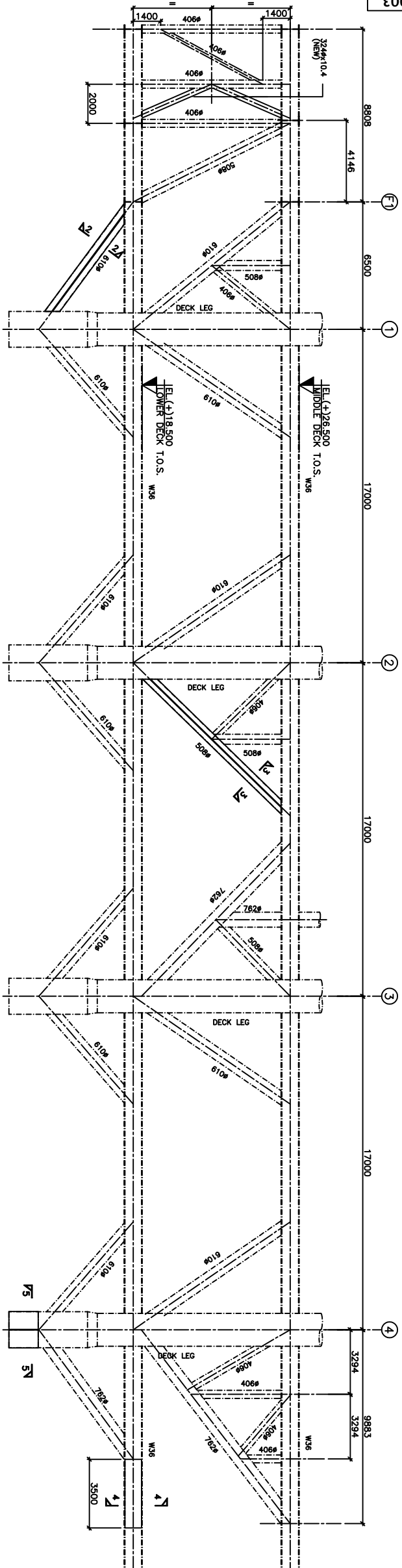
## REFURBISHMENT/REPLACEMENT OF BRIDGES IN MH ASSET

## ICP LANDING AREA -MODIFICATIONS

SCALE	JOB NO.	UNIT	DIVN.	DEPT.	DWG. NO.	REV.
1:100	B774	102	83	43	0002	A

प्रस्तुत आरेख एवं इसमें निहित विवरण इंजीनियर्स इंडिया लिमिटेड की संपत्ति है। ये मात्र उधार दिए गए हैं और उधारकर्ता ने यह स्पष्ट समझौता किया है कि न तो उन्हें पुनः मुद्रित किया जाएगा, न नकल की जाएगी, न उधार दिए जाएंगे, न प्रतिलिपि किए जाएंगे और न ही सीमित और निजी प्रयोग के अलावा इनका कोई अन्य प्रयोग होगा और यह प्रयोग उधार देने वाले द्वारा उधारकर्ता को लिखित रूप में दी गई सहमति से होगा ।

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ISSUED FOR TENDER

REV. DATE				BY				CHKD				APD				PRJ/MNC			
A 01/12/26				MUNSHI				AP				DP				PRJ/MNC			
REVISIONS																			
ISSUED FOR TENDER																			

**ENGINEERS INDIA LIMITED**  
(A Govt. of India Undertaking)  
ऑयल एंड नेचुरल गैस कारपोरेशन लिमिटेड  
OIL AND NATURAL GAS CORPORATION LIMITED

REFURBISHMENT/REPLACEMENT OF BRIDGES  
IN MH ASSET

ICP LANDING AREA- MODIFICATIONS

SCALE	JOB NO.	UNIT	DIVN	DEPT	DWG. NO.	REV.
1:125	B774	102	83	43	0003	A

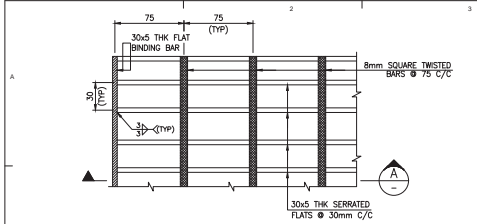
B774-102-83-43-0003

### **Annexure-1**

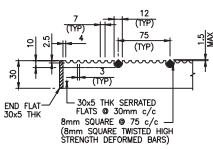
#### **DRAWINGS (attached)**

- a) Drawing no. 7111-OD-STR-5001-Standard Details-Grating
- b) Drawing no. 7111-OD-STR-5002-Standard Details-Handrails
- c) Drawing no. 7111-OD-STR-5003-Standard Details-Stairways
- d) Drawing no. 7111-OD-STR-5004-Jumping Rope Arrangement
- e) Drawing no. 7111-OD-STR-5005-D-Shackle
- f) Drawing no. 7111-OD-STR-5006-Tie-Up Chain

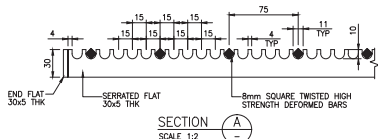




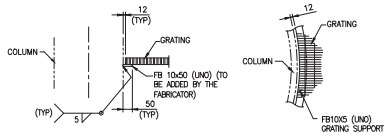
TYPICAL ELECTROFORGED GRATING DETAIL  
SCALE 1:2



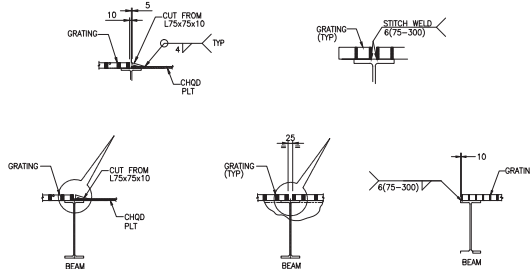
SECTION A-A  
SCALE 1:2  
SERRATION DETAILS FOR CS



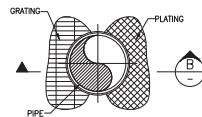
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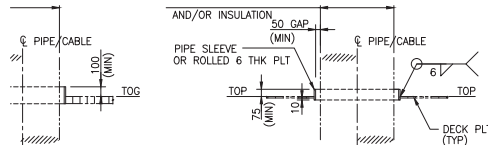
TYPICAL GRATING SUPPORT DETAIL AT  
TUBULAR COLUMNS OR DIAGONALS  
SCALE 1:10



TYPICAL GRATING CONNECTION DETAILS  
SCALE 1:10

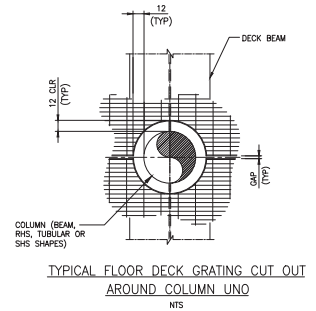


TYPICAL PIPE  
PENETRATION IN DECK  
SCALE 1:25



SECTION B-B  
SCALE 1:25  
PIPE PENETRATION

SECTION B-B  
SCALE 1:25  
PIPE PENETRATION



TYPICAL FLOOR DECK GRATING CUT OUT  
AROUND COLUMN UNO  
SCALE 1:10

REV	DATE	ISSUED FOR NO	REV	AS/BS	AMS
0	21.11.2014	ISSUED FOR NO	REV	AS/BS	AMS
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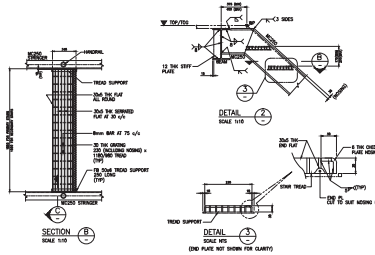
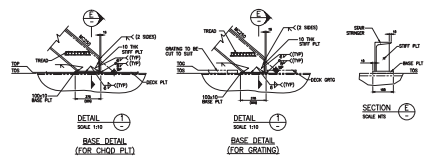
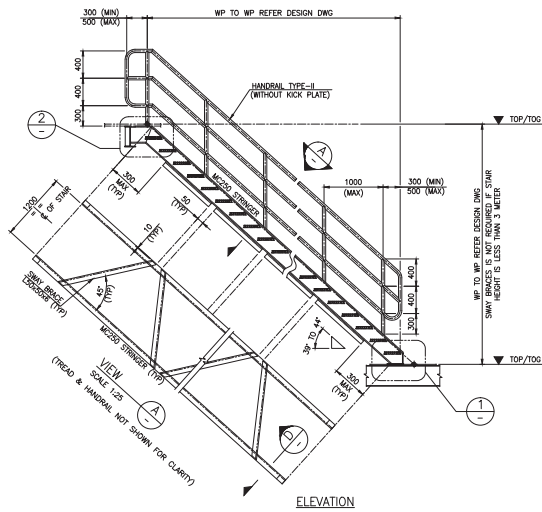
OIL AND NATURAL GAS CORPORATION LTD.  
DESIGN DIVISION, ES  
MR, MUMBAI

BRRP

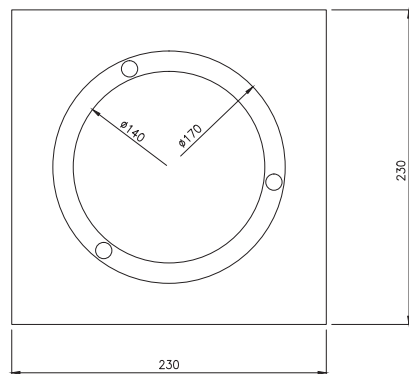
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DRAWING NO. 7111-OD-STR-5001 REV. NO. 1

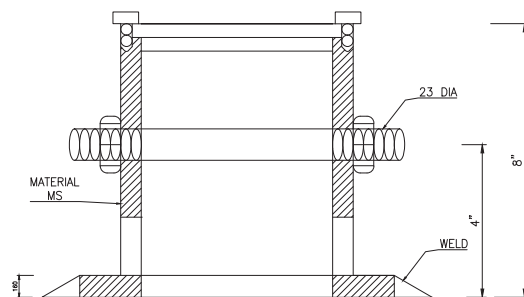




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BRRP					
TITLE					
STANDARD DETAILS-STAIRWAYS					
DRAWING NO. 7111-OD-SIR-5003					
REV. 0					

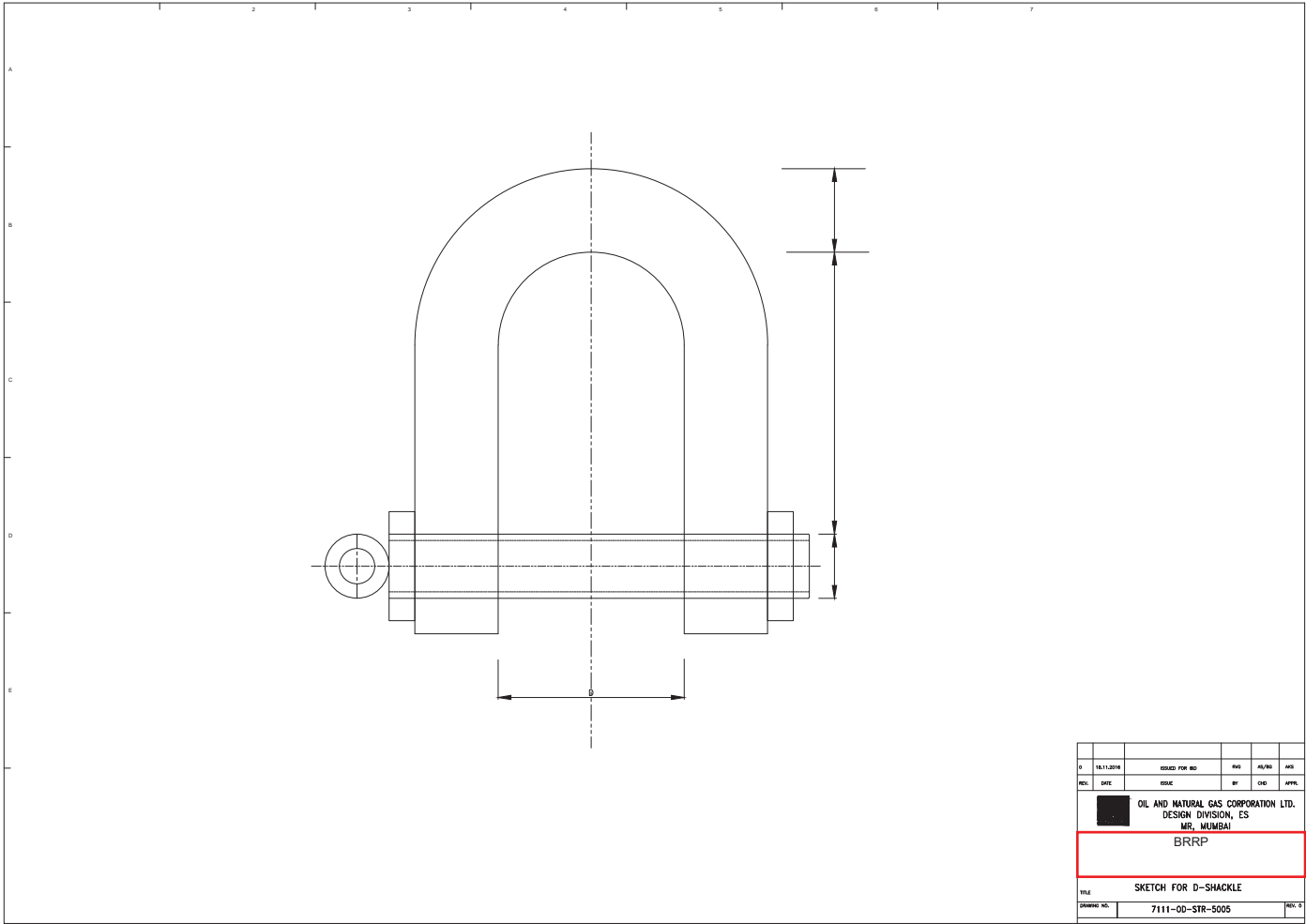


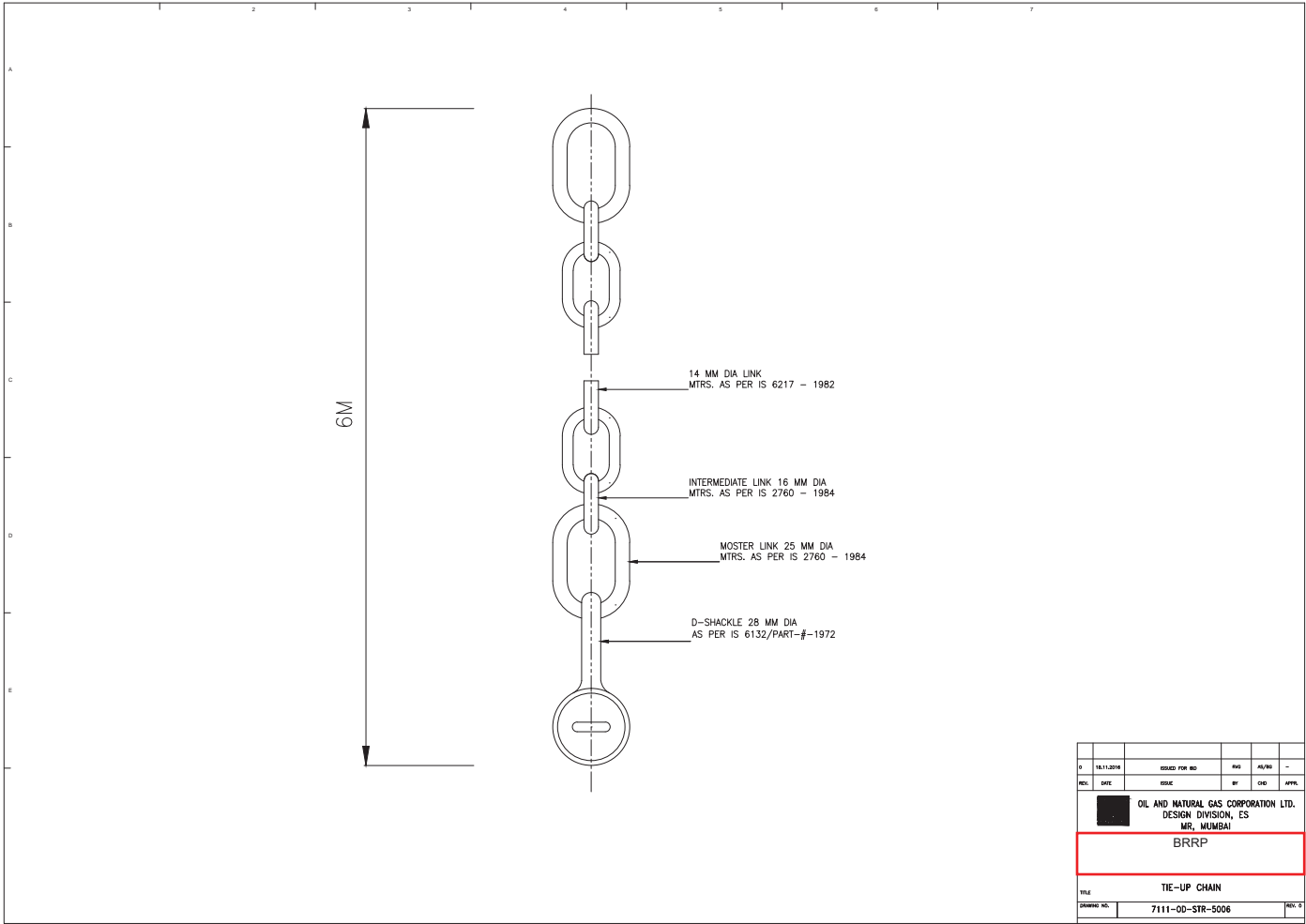
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OIL AND NATURAL GAS CORPORATION LTD.					
DESIGN DIVISION, ES					
MR, MUMBAI					
BRRP					
JUMPING ROPE ARRANGEMENT					
7111-OD-STR-5004					





18.11.2016		ISSUED FOR BID	BY	CHKD	APPR.
REV.	DATE	ISSUE	BY	CHKD	APPR.
OIL AND NATURAL GAS CORPORATION LTD. DESIGN DIVISION, ES MR, MUMBAI					
BRRP					
TIE-UP CHAIN					
DRAWING NO.		7111-OD-STR-5006			
REV. 0					

**Annexure-2**

**INSPECTION REQUIREMENT TABLE**


	<b>Offshore Design Section Engineering Services ISO – 9001:2008</b>	<b>LIST OF IRTs ( INSPECTION REQUIREMENT TABLE) &amp; APPROVAL</b>	<b>Date</b>	<b>18.11.2016</b>
			<b>Discipline</b>	<b>STRUCTURE</b>
			<b>Revision</b>	<b>1</b>
			<b>Page:</b>	<b>1 OF 1</b>


Sr. no.	Item Description	IRT No.	Inspection Category	Rev. No.	Rev. Date
1	Steel material plate	ODS/STR/IRT/01	Bulk	01	18.11.2016
2	Steel material pipe	ODS/STR/IRT/02	Bulk	01	18.11.2016
3	Steel material - rolled section	ODS/STR/IRT/03	Bulk	01	18.11.2016
4	Aluminum Heli deck	ODS/STR/IRT/04	C	01	18.11.2016
5	Electro forged grating & treads from cellar deck & above (CS)	ODS/STR/IRT/05	Bulk	01	18.11.2016
6	Electro forged grating & treads below cellar deck (SS)	ODS/STR/IRT/06	Bulk	01	18.11.2016
7	CS Handrail from cellar Deck & above	ODS/STR/IRT/07	Bulk	01	18.11.2016
8	Stainless Steel Handrail below cellar Deck	ODS/STR/IRT/08	Bulk	01	18.11.2016
10	Rubber product - 1.Shock cell & Shear fender, 2. Rub-strips & 3. Rotating bumper ring	ODS/STR/IRT/09	B	01	18.11.2016
9	Rubber product - 1. Grout seal, 2. Diaphragm closure	ODS/STR/IRT/09A	C	01	18.11.2016
11	Architectural material (spec. 6011) - 14 numbers	ODS/STR/IRT/10	C	01	18.11.2016
12	Marine growth preventer (MGP)	ODS/STR/IRT/11	Bulk	01	18.11.2016
13	Marine Paints (Protective coating) for offshore structure	ODS/STR/IRT/12	Bulk	01	18.11.2016
14	Maintenance Marine Paint (Protective Coating)	ODS/STR/IRT/12A	Bulk	01	18.11.2016


Prepared / Revised By	Reviewed By	Approved By
G.Jana/M.R. Shete	M.R. Shete	R.K..Jain


FORMAT No.	Ref. PROCEDURE No.	ISSUE No.	REV. No.	REV. DATE:
ODS/SOF/047A	ODS/SOP/023	02	00	08.03.2016





<div>ओएनजीसी</div> <div></div> <div>ONGC</div>		Offshore Design Section Engineering Services ISO – 9001:2008		INSPECTION REQUIREMENT TABLE				IRT No.		ODS/STR/IRT/01	
								Rev. No.		1	
								Discipline		STRUCTURE	
ITEM : STEEL MATERIAL - PLATE								INSPECTION CATEGORY :BULK			
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)										
	2. Inspection by ONGC / Third Party Inspection(TPI)										
	3.Inspection by EPC / EPC's Inspection Agency (IA)										
	4. Inspection by Vendor/ Sub Vendor (MILL)										
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval										
	6.Stage of Inspection Involved										
	General & documents- For Review/Approval /Information										
	1	A	-	-	H	X	Inspection & Test Plan.				
	2	R	-	-	R	X	Mill Test Certificate & Steel Material Manufacturing Process shall comply to Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1 of ONGC Spec 6001F.				
	Inspection & Testing- For Witness/ Random Witness										
3	-	-	RW one sample per Heat/cast	W	-	Plate mateial identification with respect to Mill test Certificate, marking on plate in compliance to ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1.					
IRN For issue by CA/TPI/Contractor IA/Vender QA											
4	-	-	Is	H	X	Issue & Documentation					
IMIR/GIIR at Yard											
5	W	W	-	H	X	Verification of items as per IRN at Yard: Plate mateial identification at Fabrication Yard with respect to Mill test Certificate, marking on plate in compliance to ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1.					
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN					
LEGENDS & NOTES : Explained seperatetely											
FORMAT No.		Ref. PROCEDURE No.			ISSUE No.		REV. No.		REV. DATE:		
ODS/SOF/004A		ODS/SOP/023			02		00		08.03.2016		


 <div>ओएनजीसी Offshore Design Section Engineering Services ISO – 9001:2008</div>	INSPECTION REQUIREMENT TABLE				IRT No.	ODS/STR/IRT/02	
					Rev. No.	1	
					Discipline	STRUCTURE	
ITEM : STEEL MATERIAL - PIPE					INSPECTION CATEGORY :BULK		
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)						
	2. Inspection by ONGC / Third Party Inspection(TPI)						
	3.Inspection by EPC / EPC's Inspection Agency (IA)						
	4. Inspection by Vendor/ Sub Vendor (MILL)						
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval						
	6.Stage of Inspection Involved						
	General & documents- For Review/Approval /Information						
	1	A	-	-	H	X	Inspection & Test Plan.
	2	R	-	-	R	X	PQR, WPS,NDT Reports, Inspection reports, Mill Test Certificate, Steel Material Manufacturing Process shall comply to Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1 & sub clauses of ONGC Spec 6001F.
							Pipe Rolling (as per API 2B or API 5L) in API Lisenced Mill & Inspection & Testing- For Witness/ Random Witness
3	-	-	RW one sample per Heat/Cast	W	H	Inspection of Steel Plate Material at Pipe rolling Mill with respect to Mill test Certificate and acceptance of material	
4	-	-	-	W	H	Rolling of Plate for manufacturing single seam pipe and welding	
5	-	-	-	W	H	Welding shall be carried out as per ONGC Spec 2009 with Inspection duly witness by Mill appointed CA / TPI.	
6	-	-	RW	W	H	Dimention control Inspection as per ONGC Spec 6001F & Respective Code duly witness by Mill appointed CA / TPI.	
7	-	-	-	W	H	Inspection of Steel Pipe with respect to marking on Pipe with Rolling Mill Inspection Report, Test Results and Steel Plate Material Mill Test Certificate, Dimention check in compliance to ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no 1.1.	
8	-	-	Is	H	X	IRN For issue by CA/TPI/Contractor IA/Vender QA Issue & Documentation	
						IMIR/GIIR at Yard	
9	W	W	-	H	X	Verification of items as per IRN at Yard: Inspection of Steel Pipe with respect to marking on Pipe with Rolling Mill Inspection Report, Test Results and Steel Plate Material Mill Test Certificate, Dimention check in compliance to ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1.	
10	Is	R	-	H	X	Issue & Documentation on the basis of IRN	
LEGENDS & NOTES : Explained seperately							
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.	
ODS/SOF/004A		ODS/SOP/023		02		00	
						REV. DATE:	
						08.03.2016	


<div>ओएनजीसी</div> <div></div> <div>ONGC</div>	Offshore Design Section Engineering Services ISO – 9001:2008		INSPECTION REQUIREMENT TABLE				IRT No.	ODS/STR/IRT/03
							Rev. No.	1
							Discipline	STRUCTURE
ITEM : STEEL MATERIAL - ROLLED SECTION							INSPECTION CATEGORY :BULK	
Activity	1. Inspection by ONGC / Certification Agency.(CA)							
	2. Inspection by ONGC / Third Party Inspection(TPI)							
	3.Inspection by EPC / EPC's Inspection Agency (IA)							
	4. Inspection by Vendor/ Sub Vendor (MILL)							
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval							
	6.Stage of Inspection Involved							
	General & documents- For Review/Approval /Information							
	1	A	-	-	H	X	Inspection & Test Plan.	
	2	R	-	-	H	X	Steel Material Manufacturing Process shall comply to ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1. MILL TEST CERTIFICATE shall report with all required Test results as indicated under relevant Sub Clauses under Clause No. 1.1.	
	Inspection & Testing- For Witness/ Random Witness							
3	-	-	RW one sample per heat/cast	W	H	Inspection of Steel Rolled Section Material (Marking provided & colour code) at Fabrication Yard with respect to Mill test Certificate, dimension check shall be carried out as per ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1.		
IRN For issue by CA/TPI/Contractor IA/Vender QA								
4	-	-	Is	H	X	Issue & Documentation		
IMIR/GIIR at Yard								
5	W	W	-	H	X	Verification of items as per IRN at Yard: Inspection of Steel Rolled Section Material (Marking provided & colour code) at Fabrication Yard with respect to Mill test Certificate, dimension check shall be carried out as per ONGC Spec 6001F. Clause No. 1.1 & all relevant sub Clauses under Clause no. 1.1.		
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN		
LEGENDS & NOTES : Expalined seperatetely								
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.		
ODS/SOF/004A		ODS/SOP/023		02		00		
						REV. DATE:		
						08.03.2016		

 <div>Offshore Design Section Engineering Services ISO – 9001:2008</div>		INSPECTION REQUIREMENT TABLE		IRT No.		ODS/STR/IRT/04
				Rev. No.		1
				Discipline		STRUCTURE
ITEM : Alluminium Helideck						INSPECTION CATEGORY : C
A c t i v i t y	1. Inspection by ONGC / Certification Agency.(CA)					
	2. Inspection by ONGC / Third Party Inspection(TPI)					
	3. Inspection by EPC / EPC's Inspection Agency (IA)					
	4. Inspection by Vendor/ Sub Vendor (MILL)					
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval					
	6. Stage of Inspection Involved					
	General & documents- For Review/Approval /Information					
1	A	-		H	X	Inspection & Test Plan.
2	R	-	-	H	X	Structural Design Report of Aluminum Helideck, Helicopter landing net, Alluminium Material MILL TEST CERTIFICATE, NDT, welding Inspection reports shall be provided in compliance to ONGC Spec 6001F Clause No. 1.2.0 & all relevant sub Clauses under Clause no. 1.2.0 with Design certification.
Inspection & Testing- For Witness/ Random Witness						
3	-	-	W at yard	W	H	Inspection of HeliDeck along with Alluminium Material Mill Test Certificate, Helicopter landing net, Design Certification and all Welding & Dimension control Inspection Report. Refer Clause No. 1.2.0 & Sub clauses and Approved PS.
IRN For issue by CA/TPI/Contractor IA/Vender QA						
4	-	-	Is	H	X	Issue & Documentation
IMIR/GIIR at Yard						
5	W	W	-	H	X	Verification of items as per IRN at Yard: Inspection of HeliDeck at Fabrication Yard along with Alluminium Material Mill Test Certificate, Design Certification and all Welding & Dimension control Inspection Report. Refer Clause No. 1.2.0 & Sub clauses and Approved PS.
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN
LEGENDS & NOTES : Explained seperately						
FORMAT No. ODS/SOF/004A		Ref. PROCEDURE No. ODS/SOP/023		ISSUE No. 02		REV. No. 00
						REV. DATE: 08.03.2016


	Offshore Design Section Engineering Services ISO – 9001:2008		<b>INSPECTION REQUIREMENT TABLE</b>		<b>IRT No.</b>		<b>ODS/STR/IRT/05</b>		
					<b>Rev. No.</b>		<b>1</b>		
					<b>Discipline</b>		<b>STRUCTURE</b>		
<b>ITEM : ELECTRO FORGED GRATING &amp; TREAD FROM CELLAR DECK &amp; ABOVE (CS)</b>							<b>INSPECTION CATEGORY : BULK</b>		
A c t i v i t y	<b>1. Inspection by ONGC / Certification Agency.(CA)</b>								
	<b>2. Inspection by ONGC / Third Party Inspection(TPI)</b>								
	<b>3. Inspection by EPC / EPC's Inspection Agency (IA)</b>								
	<b>4. Inspection by Vendor/ Sub Vendor (MILL)</b>								
	<b>5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval</b>								
	<b>6.Stage of Inspection Involved</b>								
	<b>General &amp; documents- For Review/Approval /Information</b>								
	1	A	-	W	H	X	Inspection & Test Plan & SAMPLE approval		
	2	R	-	R	H	X	Sample report & Procedure confirming to Grating manufactured by Electro-forged weld process. Steel sections (Mill Test Certificate) shall comply to ONGC clause no. 1.3.2.1 of Spec 6001F.		
	3	R	-	R	H	X	Test Report for Galvanization of Grating as per spec 2005.		
4	R	-	R	H	X	<b>Coating the galvanized surface with coating system no. 5 of spec 2005.</b>			
<b>Inspection &amp; Testing- For Witness/ Random Witness</b>									
5	-	-	RW	H	X	Inspection of Electro forged Grating shall be carried out as per Clause no. 1.3.2.1 & sub clauses of Spec 6001F and Spec 2005.			
<b>IRN For issue by CA/TPI/Contractor IA</b>									
6	-	-	Is	H	X	Issue & Documentation at Vendor Place (MILL)			
<b>IMIR/GIIR at Yard</b>									
7	Rw	Rw		H	X	Verification of items as per IRN at Yard: Inspection of Electro forged Grating shall be carried out as per Clause no. 1.3.2.1 & sub clauses of Spec 6001F and Spec 2005.			
8	Is	R		H	X	Issue & Documentation on the basis of IRN			
<b>LEGENDS &amp; NOTES : Explained seperately</b>									
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.		REV. DATE:	
ODS/SOF/004A		ODS/SOP/023		02		00		08.03.2016	


	Offshore Design Section Engineering Services ISO – 9001:2008		<b>INSPECTION REQUIREMENT TABLE</b>			IRT No.	ODS/STR/IRT/06
						Rev. No.	1
						Discipline	STRUCTURE
ITEM : ELECTRO FORGED GRATING & TREADS BELOW CELLAR DECK (SS)						INSPECTION CATEGORY :BULK	
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)						
	2. Inspection by ONGC / Third Party Inspection(TPI)						
	3. Inspection by EPC / EPC's Inspection Agency (IA)						
	4. Inspection by Vendor/ Sub Vendor (MILL)						
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval						
	6. Stage of Inspection Involved						
	General & documents- For Review/Approval /Information						
	1	A	-	W	H	X	Inspection & Test Plan & SAMPLE approval
	2	R	-		H	X	Sample report & Procedure confirming to Grating manufactured by Electro-forged weld process. Steel sections (Mill Test Certificate) shall comply to ONGC clause no. 1.3.2.2 of Spec 6001F.
	<b>Inspection &amp; Testing- For Witness/ Random Witness</b>						
3	-	-	RW	W	H	Inspection of Electro forged Grating shall be carried out as per Clause no. 1.3.2.2 & sub clauses of Spec 6001F and Spec 2005.	
<b>IRN For issue by CA/TPI/Contractor IA/Vender's QA</b>							
4	-	-	Is	H	X	Issue & Documentation at Vendor Place (MILL)	
<b>IMIR/GIIR at Yard</b>							
5	Rw	Rw	-	H	X	Verification of items as per IRN at Yard: Inspection of Electro forged Grating shall be carried out as per Clause no. 1.3.2.2 & sub clauses of Spec 6001F and Spec 2005.	
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN	
<b>LEGENDS &amp; NOTES : Explained seperatetely</b>							
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.	
ODS/SOF/004A		ODS/SOP/023		02		00	
						REV. DATE: 08.03.2016	


	<b>Offshore Design Section Engineering Services</b> ISO – 9001:2008		<b>INSPECTION REQUIREMENT TABLE</b>		<b>IRT No.</b>		<b>ODS/STR/IRT/07</b>	
					<b>Rev. No.</b>		<b>1</b>	
					<b>Discipline</b>		<b>STRUCTURE</b>	
<b>ITEM : Carbon steel Handrail from cellar Deck &amp; above</b>						<b>INSPECTION CATEGORY : BULK</b>		
<b>A c t i v i t</b>	<b>1. Inspection by ONGC / Certification Agency.(CA)</b>							
	<b>2. Inspection by ONGC / Third Party Inspection(TPI)</b>							
	<b>3. Inspection by EPC / EPC's Inspection Agency (IA)</b>							
	<b>4. Inspection by Vendor/ Sub Vendor (MILL)</b>							
	<b>5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval</b>							
	<b>6. Stage of Inspection Involved</b>							
	<b>General &amp; documents- For Review/Approval /Information</b>							
1	A	-	W	H	X	Inspection & Test Plan & Sample approval.		
2	R	-	R	H	X	Structural Design Report of C S Material MILL TEST CERTIFICATE, NDT, welding Inspection reports shall be provided in compliance to Clause no. 1.3.3 of ONGC Spec 6001F.		
<b>Inspection &amp; Testing- For Witness/ Random Witness</b>								
3	-	-	RW	H	X	Inspection of Handrail along with C S material Mill Test Certificate, Design Certification and all Welding & Dimension control Inspection Report. Refer Clause No. 1.3.3 of Spec. 6001F and Approved PS.		
<b>IRN For issue by CA/TPI/Contractor IA</b>								
4	-	-	Is	H	X	Issue & Documentation at Vendor Place (HANDRAIL MANUFACTURING PLACE)		
<b>IMIR/GIIR at Yard</b>								
5	Rw	Rw	-	H	X	Verification of items as per IRN at Yard: Inspection of Handrail at Fabrication Yard along with C S Material Mill Test Certificate, Design Certification and all Welding & Dimension control Inspection Report. Refer Clause No. 1.3.3 of Spec. 6001F and Approved PS.		
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN		
<b>LEGENDS &amp; NOTES : Explained seperately</b>								
FORMAT No. ODS/SOF/004A		Ref. PROCEDURE No. ODS/SOP/023		ISSUE No. 02		REV. No. 00		REV. DATE: 08.03.2016


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							Rev. No.		1		
							Discipline		STRUCTURE		
ITEM : Stainless Steel Handrail below cellar Deck							INSPECTION CATEGORY : BULK				
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)										
	2. Inspection by ONGC / Third Party Inspection(TPI)										
	3.Inspection by EPC / EPC's Inspection Agency (IA)										
	4. Inspection by Vendor/ Sub Vendor (MILL)										
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval										
	6.Stage of Inspection Involved										
	General & documents- For Review/Approval /Information										
1	A	-	W	H	X	Inspection & Test Plan & Sample Approval.					
2	R	-	R	H	X	Structural Design Report of Stainless Steel Handrail, Material Mill Test Certificate, Sample report & Procedure confirming to Grating manufactured by Electro-forged weld process in compliance to Clause no. 1.3.3 of ONGC Spec 6001F.					
Inspection & Testing- For Witness/ Random Witness											
3	-	-	W	H	X	Inspection of Handrail along with Design Report, Stainless Steel Material Mill Test Certificate and all Welding & Dimension control Inspection Report. Refer Clause No. 1.3.3 of Spec. 6001F.					
IRN For issue by CA/TPI/Contractor IA											
4	-	-	Is	H	X	Issue & Documentation at Vendor Place (HANDRAIL MANUFACTURING PLACE)					
IMIR/GIIR at Yard											
5	Rw	Rw	-	H	X	Verification of items as per IRN at Yard: Inspection of Handrail at Fabrication Yard along with Design Report, Stainless Steel Material Mill Test Certificate and all Welding & Dimension control Inspection Report. Refer Clause No. 1.3.3 of Spec. 6001F.					
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN					
LEGENDS & NOTES : Explained seperately											
FORMAT No.		Ref. PROCEDURE No.			ISSUE No.		REV. No.		REV. DATE:		
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	<b>Offshore Design Section Engineering Services ISO – 9001:2008</b>		<b>INSPECTION REQUIREMENT TABLE</b>			IRT No.	ODS/STR/IRT/09
						Rev. No.	1
						Discipline	STRUCTURE
<b>ITEM : RUBBER PRODUCT - 1.Shock Cell &amp; Shear Fender, 2. Rub-Strips &amp; 3. Rotating Bumper Ring</b>						<b>INSPECTION CATEGORY : B</b>	
<b>A c t i v i t</b>	<b>1. Inspection by ONGC / Certification Agency.(CA)</b>						
	<b>2. Inspection by ONGC / Third Party Inspection(TPI)</b>						
	<b>3. Inspection by EPC / EPC's Inspection Agency (IA)</b>						
	<b>4. Inspection by Vendor/ Sub Vendor (MILL)</b>						
	<b>5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval</b>						
	<b>6. Stage of Inspection Involved</b>						
	<b>General &amp; documents- For Review/Approval /Information</b>						
1	A	-	R	H	X	Inspection & Test Plan.	
2	R	-	R	H	X	Rubber product Manufacturing Procedures shall comply to ASTM D2000 and ONGC Spec 6001F Clause No. 1.5.0 & all relevant sub Clauses. Tubulars for shock cell shall be as per API 2B/API 5L	
<b>Inspection &amp; Testing- For Witness/ Random Witness</b>							
3	W		W	H	X	Inspection of Rubber product shall comply to Clause no. 1.5.0 & sub clauses of spec, 6001F and as per recommendation of ASTM D2000. Adhesion test of neoprene with tubulars of shock cell.	
<b>IRN For issue by CA/TPI/Contractor IA</b>							
4	Is	-	R	H	X	Issue & Documentation at Vendor Place (RUBBER PRODUCT MANUFACTURING PLACE)	
<b>IMIR/GIIR at Yard</b>							
5	W	W	-	H	X	Verification of items as per IRN at Yard: Inspection of Rubber product shall be carried out with rubber product Test Certificate complying to Clause no. 1.5.0 & sub clauses of spec, 6001F and as per recommendation of ASTM D2000.	
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN	
<b>LEGENDS &amp; NOTES : Explained seperately</b>							
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.	
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						08.03.2016	

 ONGC	Offshore Design Section Engineering Services ISO – 9001:2008		INSPECTION REQUIREMENT TABLE			IRT No.	ODS/STR/IRT/09A
						Rev. No.	1
						Discipline	STRUCTURE
ITEM : RUBBER PRODUCT - 1. Grout Seal, 2. Diaphragm Closure						INSPECTION CATEGORY : C	
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)						
	2. Inspection by ONGC / Third Party Inspection(TPI)						
	3. Inspection by EPC / EPC's Inspection Agency (IA)						
	4. Inspection by Vendor/ Sub Vendor (MILL)						
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval						
	6. Stage of Inspection Involved						
	General & documents- For Review/Approval /Information						
	1	A	-	R	H	X	Inspection & Test Plan.
	2	R	-	R	H	X	Rubber product Manufacturing Procedures shall comply to ASTM D2000 and ONGC Spec 6001F Clause No. 1.5.0 & all relevant sub Clauses.
	Inspection & Testing- For Witness/ Random Witness						
3	-		W	H	X	Inspection of Rubber product shall comply to Clause no. 1.5.0 & sub clauses of spec, 6001F and as per recommendation of ASTM D2000.	
IRN For issue by CA/TPI/Contractor IA							
4	-	-	Is	H	X	Issue & Documentation at Vendor Place (RUBBER PRODUCT MANUFACTURING PLACE)	
IMIR/GIIR at Yard							
5	W	W	-	H	X	Verification of items as per IRN at Yard: Inspection of Rubber product shall be carried out with rubber product Test Certificate complying to Clause no. 1.5.0 & sub clauses of spec, 6001F and as per recommendation of ASTM D2000.	
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN	
LEGENDS & NOTES : Explained seperately							
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.	
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	Offshore Design Section Engineering Services ISO – 9001:2008		<b>INSPECTION REQUIREMENT TABLE</b>			IRT No.	ODS/STR/IRT/10
						Rev. No.	1
						Discipline	STRUCTURE
ITEM : ARCHITECTURAL MATERIAL (SPEC. 6011) - 14 Numbers as per List below						INSPECTION CATEGORY : C	
A c t i v i t y	1. Inspection by ONGC / Certification Agency.(CA)						
	2. Inspection by ONGC / Third Party Inspection(TPI)						
	3. Inspection by EPC / EPC's Inspection Agency (IA)						
	4. Inspection by Vendor/ Sub Vendor						
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval						
	6. Stage of Inspection Involved						
	General & documents- For Review/Approval /Information						
1	A	RW	W	H	X	Inspection & Test Plan. Verification of sample of material in the yard as per approved PS.	
2	R	-	R	H	X	Manufacturing Procedures- Architectural Material Manufacturing shall comply to the Specification 6011 and Architectural Design Criteria Sec. 3.10. With Certification of Fire rating of respective Architectural Item.	
						<b>Inspection &amp; Testing- For Witness/ Random Witness</b>	
3	-	-	RW	H	H	Inspection of Architectural Items at shall be carried out along with Manufacture Test Certificate, Certificate of Fire rating (as applicable) and all Welding & Dimension control Inspection Report. Refer Spec 6011, Architectural Design Criteria Sec 3.10 and Approved PS.	
						<b>IRN For issue by CA/TPI/Contractor IA</b>	
4	-	-	Is	H	X	Issue & Documentation at Vendor Place	
						<b>IMIR/GIIR at Yard</b>	
5	W	W	-	H	X	Verification of items as per IRN & Reports Inspection of Architectural Items at Fabrication Yard shall be carried out along with Manufacture Test Certificate, Certificate of Fire rating (as applicable) and all Welding & Dimension control Inspection Report. Refer Spec 6011, Architectural Design Criteria Sec 3.10 and Approved PS.	
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN	
LIST OF ARCHITECTURAL MATERIAL							
SI No	ITEM DESCRIPTION				SI No.	ITEM DESCRIPTION	
1	External Fire Proofing Wall H Rated				7	Ceramic Tiles	
2	External Fire Proofing Wall A Rated				8	Raised Access (False) Floor System	
3	Internal Fire Wall A Rated & B Rated				9	A - 60 Fire Rated Door	
4	Pe-Fabricated Toilet System				10	B-15 Fire Rated Door	
5	B-15 Suspended ceiling				11	A-60 Fire Rated Window	
6	Vinyl Sheets Flooring				12	A-0 Fire Rated Door	
LEGENDS & NOTES : Explained seperately							
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.	
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	Offshore Design Section Engineering Services ISO – 9001:2008		INSPECTION REQUIREMENT TABLE			IRT No.	ODS/STR/IRT/11
						Rev. No.	1
						Discipline	STRUCTURE
ITEM : Marine Growth Preventor						INSPECTION CATEGORY : BULK	
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)						
	2. Inspection by ONGC / Third Party Inspection(TPI)						
	3. Inspection by EPC / EPC's Inspection Agency (IA)						
	4. Inspection by Vendor/ Sub Vendor (MILL)						
	5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval						
	6. Stage of Inspection Involved						
	General & documents- For Review/Approval /Information						
	1	A	-	R	H	X	Inspection & Test Plan.
	2	R	-	R	H	X	Manufacturing Procedures as per ONGC Spec 6001F
	Inspection & Testing- For Witness/ Random Witness						
3	-	-	W	H	X	Inspection & testing as per recommendation of ASTM D2000 & as per FS 6001F.	
IRN For issue by CA/TPI/Contractor IA							
4	-	-	Is	H	X	Issue & Documentation at Vendor Place (PRODUCT MANUFACTURING PLACE)	
IMIR/GIIR at Yard							
5	W	W	-	H	X	Verification of items as per IRN at Yard:	
6	Is	R	-	H	X	Issue & Documentation on the basis of IRN	
LEGENDS & NOTES : Explained seperately							
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.	
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						REV. DATE: 08.03.2016	

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					<b>Rev. No.</b>		<b>1</b>	
					<b>Discipline</b>		<b>STRUCTURE</b>	
<b>ITEM : MARINE PAINT (PROTECTIVE COATING)</b>							<b>INSPECTION CATEGORY :BULK</b>	
A c t i v i t y	<b>1. Inspection by ONGC / Certification Agency.(CA)</b>							
	<b>2. Inspection by ONGC / Third Party Inspection(TPI)</b>							
	<b>3. Inspection by EPC / EPC's Inspection Agency (IA)</b>							
	<b>4. Inspection by Vendor/ Sub Vendor (Paint Manufacturer's Inspector)</b>							
	<b>5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval</b>							
	<b>6. Stage of Inspection Involved</b>							
<b>General &amp; documents- For Review/Approval /Information</b>								
1	A	W at fabrication yard	W at fabrication yard	H	X	Inspection & Test Plan.Approval sample Coating panels		
2	A		A	A	X	Paint application & Inspection Procedure: Contractor shall prepare Painting / Coating application & Inspection Procedure based on Spec 2005 and submit Company Approval.		
<b>Inspection &amp; testing</b>								
3				W	-	Inspection & testing shall be carried out based on Spec 2005		
4				Rw	-	Inspection of salt content test		
5				Rw	-	Inspection of wet coating thickness		
6				Rw	-	Inspection of final coating thickness		
7				Rw	-	Inspection of Coating holiday Test		
<b>IRN For issue by CA/TPI/Contractor IA/Vender's QA</b>								
8	-	-	-	Is	X	Issue & Documentation at Vendor Place (MILL)		
<b>IMIR/GIIR at Yard</b>								
9	Rw	Rw	-	H	X	Verification of items as per IRN at Yard, batch no. Expiry , condtion of packing , storage condition etc.		
10	Is	R	-	H	X	Issue of IMIR/GIIR & Documentation on the basis of IRN		
<b>LEGENDS &amp; NOTES : Explained seperately</b>								
FORMAT No.		Ref. PROCEDURE No.		ISSUE No.		REV. No.		REV. DATE:
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							Rev. No.	1
							Discipline	STRUCTURE
ITEM : MAINTENANCE MARINE PAINT (PROTECTIVE COATING)						INSPECTION CATEGORY :BULK		
A c t i v i t	1. Inspection by ONGC / Certification Agency.(CA)/Third Party Inspection(TPI)							
			3.Inspection by EPC / EPC's Inspection Agency (IA)					
				4. Inspection by Vendor/ Sub Vendor (Paint Manufacturer's Inspector)				
				5. Certificates/compliance/Data/Information to be submitted by vendor for Review/ Approval				
				6.Stage of Inspection Involved				
				General & documents- For Review/Approval /Information				
1	A & W at offshore		W at offshore platform	H	X	Inspection & Test Plan.Approval sample Coating panels including salt test		
2	A		A	A	X	Paint application & Inspection Procedure: Contractor shall prepare Painting / Coating application & Inspection Procudure based on Spec 2005 and submit Company Approval.		
						Inspection & testing		
3				W	-	Inspection & testing shall be carried out based on Spec 2005		
4				Rw	-	Inspection of salt content test		
5				Rw	-	Inspection of wet coating thickness		
6				Rw	-	Inspection of final coating thickness		
7				Rw	-	Inspection of Coating holiday Test		
						IRN For issue by CA/TPI/Contractor IA/Vender's QA		
8	-	-	-	Is	X	Issue & Documentation at Vendor Place (MILL)		
						IMIR/GIIR at Offshore		
9	Rw		-	H	X	Verification of items as per IRN at Offshore, batch no. Expiry , condnion of packing , storage condition etc.		
10	Is		-	H	X	Issue of IMIR/GIIR & Documentation on the basis of IRN		
LEGENDS & NOTES : Explained seperatetely								
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Note: The CA/TPI inspector shall be NACE certified coating inspector - Level-III

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## Subject: Explanation of common Legends & Notes

### 1.0 Definition of Inspection categories A, B , C & BULK

#### 1.1 Inspection Category : "A":

##### i) At Vendor's Place:-

- a) ONGC/CA and Contractor/Contractor's IA shall carry out appropriate stage as well as Final Inspection as per approved ITP/QAP and issue IR/IRN.
- b) ONGC/CA shall either issue their separate IR/IRN or will endorse the IR/IRN issued by Contractor/Contractor's Inspection Agency.

**AND**

##### ii) At Fabrication Yard/ Offshore Installation:-

- a) Material received at Yard shall be verified by ONGC appointed TPI/CA with respect to Tag / Marking / Identification and IR/IRN etc.
- b) IR/IRN shall be submitted to ONGC's TPI & CA for IMIR /GIIR clearance.

#### 1.2 Inspection Category : "B":

##### i) At Vendor's Place :-

- a) ONGC / CA shall carry out Final Stage Inspection at Vendor's place..
- b) Contractor/Contractor's IA shall carry out Appropriate Stage as well as Final Inspection as per approved ITP/QAP.
- c) ONGC/CA shall either issue their separate IR/IRN or will endorse the IR/IRN issued by Contractor IA.

**AND**

##### ii) At Fabrication Yard/Offshore Installation :

- a) Material received at Yard shall be verified by ONGC appointed TPI/CA with respect to Tag / Marking / Identification and IR/IRN etc.
- b) IR/IRN shall be submitted to ONGC's TPI & CA for IMIR /GIIR clearance.

#### 1.3 Inspection Category : "C":

##### i) At Vendor's Place :


- a) Contractor/Contractor's IA shall carry out the Final Inspection as per the approved ITP / QAP and issue IR/IRN.

**AND**

##### ii) At Fabrication Yard /Offshore Installation :

- a) Material received at yard shall be verified by ONGC appointed TPI / CA with respect to Tag / Marking / Identification and IR/IRN etc. In case of Random Inspection , it shall be done as per guide lines of RW.
- b) IR/IRN with Backup Documents shall be submitted to ONGC's TPI & CA for IMIR /GIIR clearance.

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#### **1.4 Inspection Category : “Bulk”:**

##### **i) At Vendor's Place :**

- a) Contractor /Contractor IA shall carry out Inspection / review the manufacturer test certificate and issue IR/IRN.

**AND**

##### **ii) At Fabrication Yard/Offshore Installation :**


- a) Material received at yard shall be verified by ONGC appointed CA & TPI with respect to Tag / Marking / Identification etc. In case of Random Inspection, it shall be done as per guide lines of RW.
- b) IR/IRN with back up documents shall be submitted to ONGC's TPI & CA for IMIR /GIIR clearance.

#### **2.0 Legends:**

- a) CA- Certification Agency appointed by ONGC
- b) TPI- Third Party Agency appointed by ONGC
- c) Contractor IA- Contractor's Inspection agency, appointed by the LSTK Contractor
- d) ITP / QCP/QAP - Inspection & Test Plan / Quality Control Plan/Quality Assurance Plan
- e) IRT - Inspection Requirement Table.
- f) IR/IRN - Inspection Report/ Inspection Release Note.
- g) IMIR/GIIR-Inward Material Inspection Report/Goods Inward Material Inspection.
- h) I- information.
- i) A – Approval.
- j) R – Review.
- k) Rw or RW - Random Witness Inspection
- l) W- Witness Inspection.
- m) R/W- Review & Witness Inspection.
- n) X-Submission of Supporting Documents during review at any stage.
- o) Is- Issue of documents like Inspection Release Note (IRN)/report etc.
- p) FAT - Factory Acceptance Test
- q) SAT – Site Acceptance Test

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### 3.0 Explanation of terminology used in ITPs, viz. RANDOM WITNESS 'HOLD INSPECTION', WITNESS.

#### i) **Rw or RW: Random WITNESS ( Inspection)**

- Sampling percentage shall be specified as minimum 10% and shall do marking ( Metal/Rubber stamping ) & serial nos. or lot no. shall be logged in IR/IRN.
- Any non-conformances ( NC) or discrepancies observed during the inspection of 1<sup>st</sup> lot of 10%, then 2<sup>nd</sup> lot of next 20% shall be inspected, further if any NC observed then all the 100% shall be inspected.
- Vendor will raise notification for the timing of Inspection / Test. In case CA doesn't visit within specified time of the agreed schedule, vendor may proceed with Inspection & further work in presence of Contractor /Contractor IA. Record of inspection will be submitted to CA for review.

#### ii) **H – Hold (Inspection):**

- Vendor shall give 5 working days (as applicable) advance notification in case of Inspection in India and 10 working days in case of Inspection in abroad to Inspection agency (Contractor /Contractor IA and CA) as specified in approved ITP. Vendor shall ensure readiness of Internal 'QAD / Factory' Inspection reports.
- Vendor shall not proceed with further operation without clearance from Contractor / Contractor IA (or) waiver from the Inspection agency for whom the 'hold inspection' point is indicated i.e. Contractor / Contractor IA / Company CA as applicable. In case waiver is obtained, then IR/IRN shall be issued based on review of Inspection report of that Inspection stages.


#### iii) **W – Witness (100% inspection)**

- Vendor shall give 5 working days (as applicable) advance notification in case of Inspection in India and 10 working days in case of Inspection in foreign to Inspection agency (Contractor /Contractor IA and Company CA) as specified in approved ITP. Vendor shall ensure readiness of Internal 'QAD / Factory' Inspection reports/ Release note.
- In case Certifying agency does not visit within the specified time of the agreed schedule, vendor may proceed with the Inspection and for further operations in presence of Contractor / Contractor IA. Record of Inspection carried out by vendor and Contractor / Contractor IA shall be provided to CA for review and for obtaining the Release Note.

### 4.0 General NOTES:

- Note-1:** Contractor/Contractor IA shall carry out Inspection and/or review the Documents as per approved ITP/QAP and prepare the Final Release Note. Contractor shall opt for ONGC empanelled Inspection agency as Contractor IA , but will exclude the agencies appointed by ONGC as their CA & TPI for that particular project.

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- b) Note-2:** For ASME Coded vessel Fabrication, ASME AI (Authorized Inspector) will carry out Inspection as per code requirements. Contractor/Contractor IA shall carry out Inspection as per ITP/QAP.
- c) Note-3:** Random Inspection as per guide lines of RW may be carried out by CA for Inspection of Category C & Bulk items, if required as and when specified in IRT/QAP.
- d) Note 4:** At the time of inspection for category A, B or C, if any additional test required shall be carried out as per referred standard, mentioned in FS apart from IRT.
- e) Note 5:** This IRT is issued to provide extensive guidelines for preparation of ITP/QAP.
- f) Note 6:** This IRT is for the inspection by the above mentioned inspection agencies. Any class / statutory body inspection wherever required / applicable, shall be in addition to this.
- g) Note 7:** For all the bulk category items, the documentation (MTC, Test Certificate/ Report/ FAT, IRN, etc) shall be submitted by contractor to Company for review and record, prior to issue of IMIR/GIIR
- h) Note 8:** Material of any category shall be used by contractor only after clearance by ONGC/Certification Agency (CA) of IMIR/GIIR against complete documentation (MTC, Test Certificate/ Report/FAT, IRN, etc).

<b>Prepared / Revised By</b>	<b>Reviewed By</b>	<b>Approved By</b>
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