



#### PROJECT: RE-CONSTRUCTION OF NORTH JETTY AT NAVAL BASE, KOCHI, ON EPC CONTRACT BASIS.

Our Ref.: 2951/AFCONS/CoPT/L/1023	Your Ref: T10/T-1910/2020-C/5213(W)
Submission Date: 19th May 2023	Received Date: 22nd October 2020

То

#### **The Chief Engineer** Cochin Port Authority,

Willingdon Island, Cochin – 682009, KERALA, India Tele: 91-0484-2666414/0484-2582400

#### Kind Attention: Shri Thuraipandian. V. Chief Mechanical Engineer (CoPA)

#### Subject : Submission of GAD and ITPs for Single Jib Crane and Double Jib Crane.

Reference: (Refer Annexure-A attached)

Dear Sir,

With reference to the meeting held between the Employer, Contractor and CoPA invited Third Party Inspection Agencies (i.e., NCGB, IR Class, BV and TUV) on 8<sup>th</sup> May 2023 for "Appointment of the Third-Party Inspection Agency by the CoPA for the inspection of 2 nos. ELL Cranes" and its discussions, Contractor herewith submits ITPs for Single Jib ELL crane MK600F and Double ELL crane K703V received from M/s. Kroll Cranes for Employer's review and approval.

And also, Contractor herewith enclosed General Alignment Drawings (GAD) for Single Jib Crane and Double Jib Crane for Employer's record.

AFCONS always assures of best attention and remains.

#### For AFCONS Infrastructure Ltd

V. V. Jaidev Project Manager

Cc: Smt. Dr. Beena, Chairperson (CoPA) Shri. Vikas Narwal, Deputy Chairperson (CoPA) Smt. Rema. E, Chief Engineer (CoPA) Capt. Anoop Kumar J, SSO (Projects)/HQSNC Capt. Manu Paliwal, DGM (TS), (NSRY),

Enclosures: As above.

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#### Annexure-A

- Ref: 1. LOA no T10/T-1910/2020-C/5213(W) dated 22-10-2020
  - 2. Agreement No. 1 of 2021-2022, dated 23rd June 2021
  - 3. 2951/AFCONS/CoPT/T/010 dated 17-02-2021
  - 4. 2951/AFCONS/CoPT/L/121 dated 26-03-2021
  - 5. 2951/AFCONS/CoPT/L/147 dated 21-04-2021
  - 6. 2951/AFCONS/CoPT/L/148 dated 21-04-2021
  - 7. 2951/AFCONS/CoPT/L/316 dated 23-09-2021
  - 8. AFCONS E-mail dated 27-10-2021
  - 9. AFCONS E-mail dated 03-11-2021
  - 10. Monthly Review Meeting dated 16-11-2021
  - 11. 2951/AFCONS/CoPT/L/413 dated 30-11-2021
  - 12. 3rd Half yearly progress review meeting dated 16-12-2021
  - 13. 2951/AFCONS/CoPT/L/444 dated 24-12-2021
  - 14. 2951/AFCONS/CoPT/L/469 dated 21-01-2022
  - 15. E-mail from CoPT on 25-01-2022
  - 16. E-Mail from AFCONS dated 01-02-2022
  - 17. E-Mail from NAVY dated 02-02-2022
  - 18. 2951/AFCONS/CoPT/L/526 dated 24-02-2022; sl. no. 19 of FDRM 13 & sl. no. 20 of FDRM 14
  - 19. 2951/AFCONS/CoPT/L/540 dated 05-03-2022; sl. no. 7 of SRM 05
  - 20. NAVY FAX ATWP/3480/21 dated 25-03-2022
  - 21. 2951/AFCONS/CoPT/L/566 dated 26-03-2022; sl. no. 13 of FDRM 15
  - 22. 2951/AFCONS/CoPT/L/601 dated 07-05-2022
  - 23. CoPT Email dated 10-05-2022
  - 24. AFCONS E-Mail dated 11-05-2022
  - 25. CoPT E-Mail dated 11-05-2022
  - 26. CoPT E-mail dated 12-05-2022
  - 27. AFCONS E-mail dated 12-05-2022
  - 28. CoPT E-mail dated 21-05-2022
  - 29. AFCONS E-Mail dated 25-05-2022
  - 30. CoPT E-Mail dated 26-05-2022
  - 31. CoPT E-mail 27-05-2022
  - 32. AFCONS E-mail dated 31-05-2022
  - 33. CoPT E-mail dated 31-05-2022
  - 34. NAVY E-mail dated 06-06-2022
  - 35. CoPT E-mail dated 08-06-2022
  - 36. 2951/AFCONS/CoPT/L/652 dated 13-06-2022
  - 37. 2951/AFCONS/CoPT/L/654 dated 15-06-2022
  - 38. CoPT's letter to NAVY (CoPA/ELL Crane/2022-M dated 17-06-2022)
  - 39. CoPT's E-mail dated 05-07-2022 with NAVY's letter PT/06/03/ATWP/NJ dated 01-07-2022
  - 40.2951/AFCONS/CoPT/L/712 dated 27-07-2022

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- 41. CoPT's Email dated 05-08-2022 with CoPT letter CoPA/ELL Crane/2022 dated 04/08/2022 and NAVY's Fax Massage ATWP/3480/21 dated 13-May-22 and ATWP/3480/21(i) dated 01-Aug-2022.
- 42. 2951/AFCONS/CoPT/L/721 dated 05-08-2022
- 43. CoPT's E-mail dated 12-08-2022
- 44. 2951/AFCONS/CoPT/L/734 dated 17-08-2022
- 45. 2951/AFCONS/CoPT/L/766 dated 20-09-2022
- 46. 2951/AFCONS/CoPT/L/780 dated 30-09-2022
- 47. CoPT's email dated 3rd October 2022
- 48. 2951/AFCONS/CoPT/L/786 dated 06-10-2022
- 49. CoPT's email dated 12th October 2022
- 50. Employer's email dated 19th October 2022
- 51. 2951/AFCONS/CoPT/L/805 dated 21-10-2022
- 52. 2951/AFCONS/CoPT/L/817 dated 02-11-2022
- 53. Employer's email dated 7th November 2022
- 54. Employer's email dated 10th November 2022
- 55. 2951/AFCONS/CoPT/L/831 dated 12-11-2022
- 56. Employer's email dated 14th November 2022
- 57. 2951/AFCONS/CoPT/L/839 dated 18-11-2022
- 58. 2951/AFCONS/CoPT/L/854 dated 29-11-2022
- 59. 2951/AFCONS/CoPT/L/862 dated 02-12-2022
- 60. Employer E-mail dated 06-12-2022
- 61. Contractor E-mail dated 06-12-2022
- 62. 2951/AFCONS/CoPT/L/865 dated 07-12-2022
- 63. Employer's letter No. EE(Ele)P/North Jetty-Navy-ELL Crane/2022-variation-M/7909(W), date 23<sup>rd</sup> December 2022.
- 64. 2951/AFCONS/CoPT/L/895 dated 04-01-2023.
- 65. Employer's email dated 10th January 2023
- 66. 2951/AFCONS/CoPT/L/904 dated 13-01-2023
- 67. 2951/AFCONS/CoPT/L/913 dated 24-01-2023
- 68. Employer E-mail dated 24-01-2023
- 69. CoPT/AECOM/AFCONS meeting dated 25-01-2023
- 70. Contractor E-mail dated 27-01-2023 regarding meeting dated 25-01-2023
- 71. 2951/AFCONS/CoPT/L/917 dated 27-01-2023
- 72. Contractor E-mail dated 25-01-2023
- 73. 2951/AFCONS/CoPT/L/931 dated 09-02-2023
- 74. Employer's letter EE(Ele)P/North Jetty Navy-ELL Crane/2022-variation-M dated 10-02-2023
- 75. 2951/AFCONS/CoPT/L/938 dated 15-02-2023
- 76. 2951/AFCONS/CoPT/L/946 dated 20-02-2023
- 76. A Employer's email dated  $24^{\rm th}$  February 2023
- 77. 2951/AFCONS/CoPT/L/953 dated 22-02-2023
- 78. 2951/AFCONS/CoPT/L/965 dated 10-03-2023

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- 79. Indian Navy letter Ref. DY/8163/North Jetty, dated 20th March 2023 MoM dated 17th March 2023 at Sena Bhavan ACOM(MOD)
- 80. 2951/AFCONS/CoPT/L/974 dated 22-03-2023
- 81. 2951/AFCONS/CoPT/L/975 dated 23-03-2023
- 82. Employer's email dated 1st April 2023
- 83. Employer's letter EE(Ele)P/North Jetty Navy-ELL Crane/2022-M dated 05-04-2023
- 84. Employer's email dated 13th April 2023
- 85. 2951/AFCONS/CoPT/L/999 dated 17-04-2023
- 86. EE-P/Reconstruction of North Jetty-Navy/ELL crane/Variation2022, dated 19-04-2023
- 87. Employer's email dated 21st April 2023
- 88. 2951/AFCONS/CoPT/L/1010 dated 04-05-2023
- 89. 2951/AFCONS/CoPT/L/1014 dated 09-05-2023
- 90. 2951/AFCONS/CoPT/L/1021 dated 18-05-2023
- 91. 2951/AFCONS/CoPT/L/1022 dated 18-05-2023



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1.	APPROVAL OF DESIGN CALCULATIONS	CALCULA	TIONS	F.E.M. 3 <sup>RD</sup> ED. EN 14439+A2	CALCULATIONS	-					R		R		R*		
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3.	MOTORS & UNITS	MANUFACT DOCUME	JRERS NTS	SPECIFICATION / APPR. VENDOR	NAMEPLATES	YES	Н		R		R		R		R		
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ACT				CERTIFY. /	DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	End	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
		STEE		PRIOR TO, AND		IG FA	BRIC		N – AL	LELE		<u>rs</u>				
5.	APPROVAL OF WPS, WPQR	WPS'es WPQR's	EN ISO 15609-1 EN ISO 15614-1 OR SIMILAR	WPS'es WPQR's	-	н		н		R		R		R		
6.	APPROVAL OF WELDERS QUALIFICATION	WELDERS CERTIFICATES	EN ISO 9606-1 OR SIMILAR	WELDERS CERTIFICATES	-	н		Н		R		R		R		
7.	APPROVAL OF NDT PERSONNEL QUALIFICATIONS	NDT CERTIFICATES	EN 473 / ISO 9712 EWI / IWI OR SIMILAR	NDT CERTIFICATES	-	н		Н		R		R		R		
8.	MATERIAL RECEIVING	MATERIAL CERTIFICATES	PRIMARY STEEL: ISO 10204 3.1	LIST OF CERTS. MATERIAL CETIFICATES	-	н		Н		R		R		R		
9.	GEARS	MANUFACTURERS DOCUMENTS	SPECIFICATION / APPR. VENDOR	NAMEPLATES	YES	н		Н		R		R		R		
	STEEL WORKSHOP DURING FABRICATION															
10.	10.       VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS       WELD PREP. PROCEDURE       ACC. TO DRAWINGS       -       -       H       R       R       R       R       R       Image: R															
11.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
12.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		м		R		R		R		
13.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			н		R		R		R		
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16.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
17.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			н		R		R		R		
	MASTHEAD / SLEWING TOP TOWER															
18.																
19.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
20.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
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No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
			STEEL WO	ORKSHOP DUR	ING FA	BRIC	ATION	I (CO	NINUE	<u>D)</u>						
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22.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
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24.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
25.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			Н		R		R		R		
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26.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
27.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
28.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
29.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			н		R		R		R		
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A.O.T	DECODIDITION OF		1005574N05		DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	End	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
				NDT	INSPEC	TION										
				CRANE BASE	E / UNDE	RCA	RRIAG	θE								
30.	100% VT. ALL WELD SEAMS	VT PROCEDURE	EN ISO 5817 LEVEL <b>C</b>	VT REPORTS	MECH. FAT			н		R		R		R		
31.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			Н		R		R		R		
32.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			Н		R		R		R		
33.	<sup>33.</sup> 100% VT. ALL WELD VT PROCEDURE EN ISO 5817 LEVEL C VT REPORTS MECH. FAT H R R R R															
34.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
35.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
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ACT	DESCRIPTION OF	CONTROL	ACCEPTANCE	CERTIFY. /	DOCS.	PR	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	End	luser	REMARKS
ACT No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
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				MASTHEAD / S		G / TC	ρτον	VER								
36.	100% VT. ALL WELD SEAMS	VT PROCEDURE	EN ISO 5817 LEVEL <b>C</b>	VT REPORTS	MECH. FAT			Н		R		R		R		
37.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
38.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
MACHINERY DECK																
<sup>39.</sup> 100% VT. ALL WELD VT PROCEDURE EN ISO 5817 LEVEL C VT REPORTS MECH. FAT H R R R R																
40.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
41.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
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					DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	End	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	АСТ	SIGN	ACT	SIGN	
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42.	100% VT. ALL WELD SEAMS	VT PROCEDURE	EN ISO 5817 LEVEL <b>C</b>	VT REPORTS	MECH. FAT			н		R		R		R		
43.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			Н		R		R		R		
44.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			Н		R		R		R		
	TEST ASSEMBLIES – STEEL CONSTRUCTION															
45.	<sup>45.</sup> UNDERCARRIAGE / PORTAL ASSEMBLY PORTAL PORTA															
46.	SLEWING / TOPTOWER / MACHINERY DECK ASSEMBLY			PHOTOS TEST ASSY. REPORT	MECH. FAT	н		н		R		R		R		
47.	BOOM ASSEMBLY			PHOTOS TEST ASSY. REPORT	MECH. FAT	н		Н		R		R		R		
			PAINT WOR	KSHOP – ALL I		NTS E	XTER		SURFA	CES						
48.	SANDBLASTING	SURFACE TREATMENT PROCEDURE	ISO 8501-1 SA 2½	-	-	н		н		R		R		R		
49.	METALLISATION	SURFACE TREATMENT PROCEDURE	1 X 60 µm	MESUREMENT REPORT	MECH. FAT	н		Н		R		R		R		
50.	PAINT	SURFACE TREATMENT PROCEDURE	1 X 60 µm	MEASEUREMENT REPORT	MECH. FAT	н		Н		R		R		R		
	TP K703V									Y.	ll				Page 7 (	of 9



ACT	DESCRIPTION OF	CONTROL	ACCEPTANCE	CERTIFY. /	DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	Enc	luser	REMARKS
No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
			SUR	FACE TREATM		<b>FERIC</b>	DR SUI	RFAC	ES							
51.	PRIMER COAT, ALKYD PRIMER	-	1 X 40 µm	MEASUREMENT REPORT	-			Н		R		R		R		
52.	FINISH COAT, ALKYD FINISH PAINT	-	1 X 40 µm	MEASUREMENT REPORT	-			н		R		R		R		
53.	TOTAL DRY FILM THICKNESS	-	80 µm	MEASUREMENT REPORT	-			н		R		R		R		
				ELECTRIC	CAL WC	RKS	HOP									
54.	MANUFACTURING OF POWER SYSTEM	ELECTRICAL DRAWINGS	EN 60204-1 / EN 60204-32	-	-	н		М		R		R		R		
55.	MANUFACTURING OF CONTROL- AND ALARM SYSTEM	ELECTRICAL DRAWINGS	EN 60204-1 / EN 60204-32 / EN 62061	-	-	н		м		R		R		R		
56.	PROGRAMMING	-	-	-	-	н		м		R		R		R		
57.	TEST ASSEMBLY OF SYSTEMS AND MOTORS / SAFETY DEVICES	ELECTRICAL DRAWINGS	EN 60204-1 / EN 60204-32 / EN 62061	-	-	н		М		R		R		R		
58.	EL – FAT	INF. REF 4752	EN 60204-1 / EN 60204-32	ELECTRICAL FAT REPORT	EL FAT	н		w		w		w		R		
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ITP K703V

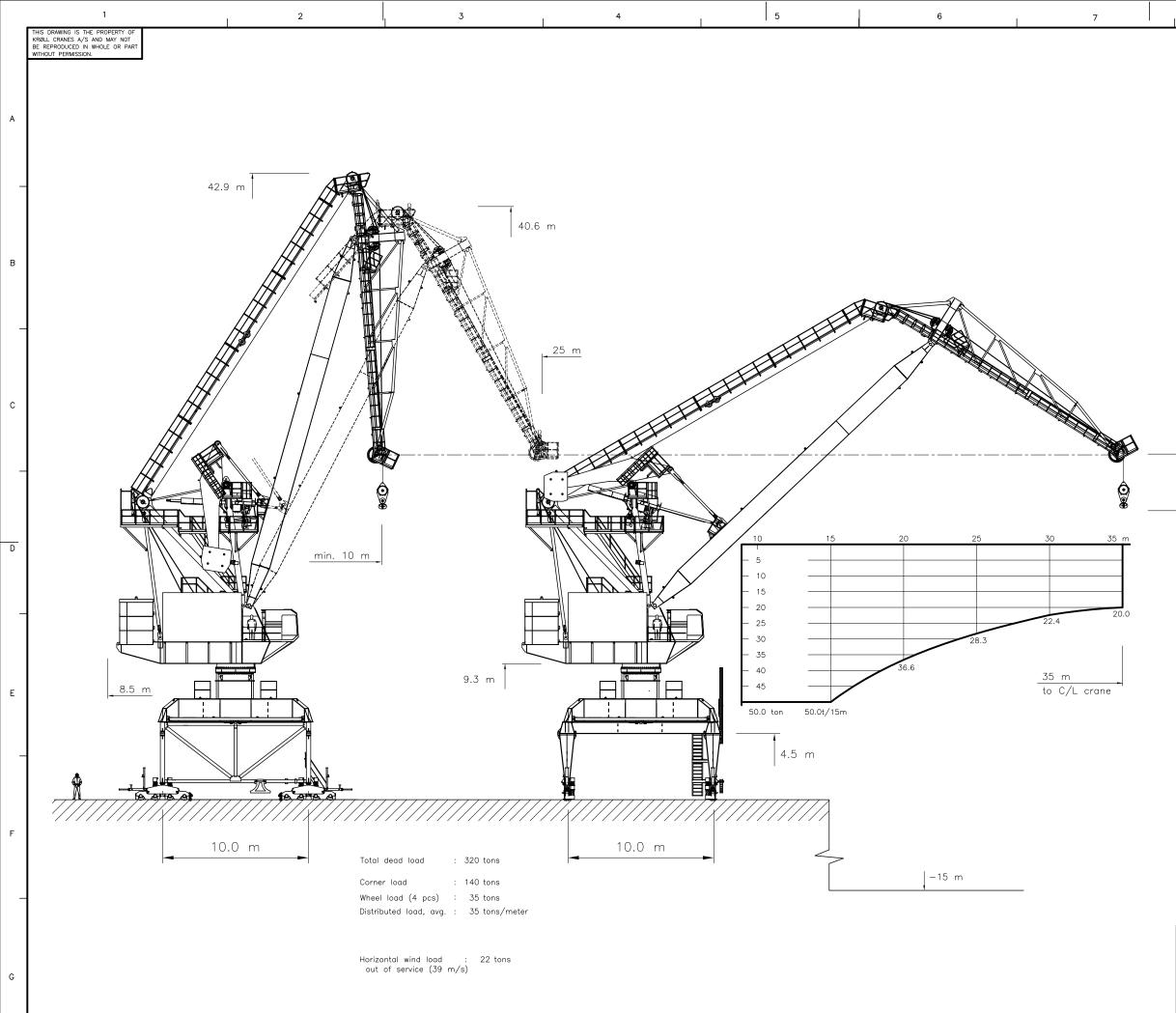
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ACT	DESCRIPTION OF	CONTROL	ACCEPTANCE	CERTIFY. /	DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	Enc	luser	REMARKS
No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
				DOCL	JMENTA		l									
59.	OPERATION AND MAINTENANCE MANUALS (PREVENTIVE AND CORRECTIVE)	-	EN 14439	MANUALS	-			н		R		R		R		
60.	MANUAL: ERECTION, ELECTRICAL, EQUIPMENTS	-	EN 14439	MANUALS	-			Н		R		R		R		
61.	JOB SAFETY ANALYSIS, ERECTION	-	CLIENT APPROVAL	ANALYSIS				н		R		R		R		
62.	COLLECTING DOCUMENTATION ACCORDING TO CONTRACT	-	CONTRACT	MDR				н		R		R		R		
63.	QUALITY AND CRANE CERTIFICATES	-	CONTRACT.	MDR				н		R		R		R		
				ON-SITE TEST	rs afte	ER EF	RECTIO	ON								
64.	FUNCTIONS TEST (NO-LOAD TEST)	SPECIFICATION REQUIREMENTS	CLIENT APPROVAL	CHECKLIST	-			н		w		w		w		
65.	LOAD TEST	SPECIFICATION REQUIREMENTS	CLIENT APPROVAL	CHECKLIST	-			Н		w		w		W		



ITP K703V



# K703V

9

26 m

22 m

8

PERFORMANCE

	HOIST	: 120 kW
MAIN		
樹	0-12 t	0-36 m/min
	12-30 t	0–18 m/min
B	30-50 t	0-12 m/min
LUFFING		
	0-50 t	0-30 m/min
SLEWING		
	0-50 t	0-0.6 rpm
TRAVELL	ING	
	0-50 t	0-20 m/min

 3 x 400-460 V
 CONTROL VOLTAGE

 50 Hz
 24 VDC - 220 VAC

#### STRUCTURAL DESIGN

Design according to F.E.M, 3rd Edition

Classification : A6, U5, Q3 Fatigue design based on 80% load and 500.000 hoisting cycles

KONST.: 221111 JL PRO	J.	KRANT	YPE	STK.	SA	ML. TEGN.			
TEGN. : 221111 JL	$\oplus$								
GODK. : 221111 JL	Ψ		_						
ERSTATTER:	SKALA	4	OVERF	. AR	EAL:	OVERFLADE-BEH	ANDLING:	MAT	र.:
	1:	100			m²			DIM.:	
ERSTATTET AF:	TOTAL	VÆGT:				ANT. TEGNING.:		ANT.	STYKL.:
					kg	TITEL			
OPRINDELSE:	TRANS	PORTM.	ÅL:						
					m³	K703V			
KRØL	. CR/	NES	A/	S					
NORDKRANVEJ					₹К	TEGN. NR.			
PHONE: +45 48	187400 ww.krollcro		⊧45 48 f	188807		C1-0	0.00	09	2189-02



END USER     MODEL     MK600F     Model to the second and the secon		KRØLL	CRAN	ES A/S	S – DENMARK										ITP	No.		
DONO.         R = REVIEW         W = WITNESS         H = HO           PREPARED BY: Tor Larsen         Ref.:         APPROVED BY: Henrik B. Nielsen         KC JOB         S = SIGNATURE         M = MONITOR		END USER		MOD	EL M	K600F	CLIENT	A	CONS		RASTR	UCI	JRE LI	IMITE			01	
PREPARED BY: Tor Larsen         Ref.:         Image: Construct of the construction of the constructinent of the construction of the construction of the construction				S/No	o.		PROJECT	Г							RE	V. 01		
APPROVED BY: Henrik B. Nielsen       KC JOB       S = SIGNATURE       M = MONITOR         ACT No.       DESCRIPTION OF EVENTS       CONTROL DOCUMENT       ACCEPTANCE CRITERIA       CERTIFY. / VERIFY. DOCS.       DOCS.       PROD.       QA /QC       3 <sup>rd</sup> Party       AFCONS       End user         IN MDR       ACT       SIGN       ACT <td></td> <td></td> <td></td> <td>PON</td> <td>lo.</td> <td></td> <td>LEGEND</td> <td>:</td> <td>R = RE</td> <td>VIEW</td> <td></td> <td></td> <td>W = W</td> <td>ITNESS</td> <td>5</td> <td></td> <td>H = H</td> <td>OLD</td>				PON	lo.		LEGEND	:	R = RE	VIEW			W = W	ITNESS	5		H = H	OLD
ACT       DESCRIPTION OF EVENTS       CONTROL DOCUMENT       ACCEPTANCE CRITERIA       CERTIFY. / VERIFY. DOCS.       DOCS.       PROD.       QA /QC       3rd Party       AFCONS       End user         IN MDR       ACT       SIGN       ACT       SIGN <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>S = SIC</td><td>SNATU</td><td>RE</td><td></td><td>M = M0</td><td></td><td>R</td><td></td><td></td><td></td></td<>									S = SIC	SNATU	RE		M = M0		R			
ACT No.       DESCRIPTION OF EVENTS       CONTROL DOCUMENT       ACCEPTANCE CRITERIA       CERTIFY./ VERIFY. DOCS.       IN MDR       ACT       SIGN				I			DOCS.	PF	ROD.	QA		3 <sup>rd</sup>	Partv	AFC	CONS	Enc	duser	REMARKS
Image: calculations       Calculations       F.E.M. 3 <sup>RD</sup> ED. EN 14439+A2       CALCULATIONS       -       R       R       R       R*         2.       APPROVAL OF DESIGN DRAWINGS       DRAWINGS       F.E.M. 3 <sup>RD</sup> ED. EN 14439+A2       DRAWINGS       -       Image: Calculation of the state							IN		1									
I.       CALCULATIONS       CALCULATIONS       I </td <td></td> <td></td> <td></td> <td></td> <td>ENGINEER</td> <td>ING PRIOR TO</td> <td>FABRIC</td> <td>CATIC</td> <td>DN – A</td> <td>LL EI</td> <td></td> <td>ITS</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>					ENGINEER	ING PRIOR TO	FABRIC	CATIC	DN – A	LL EI		ITS						
Z.       DESIGN DRAWINGS       DRAWINGS       EN 14439+A2       DRAWINGS       -       I <td>1.</td> <td></td> <td>CALCULAT</td> <td>TIONS</td> <td></td> <td>CALCULATIONS</td> <td>-</td> <td></td> <td></td> <td></td> <td></td> <td>R</td> <td></td> <td>R</td> <td></td> <td>R*</td> <td></td> <td></td>	1.		CALCULAT	TIONS		CALCULATIONS	-					R		R		R*		
3.       MOTORS & UNITS       MANUFACTURERS DOCUMENTS       SPECIFICATION       NAMEPLATES       YES       H       R       R       R       R       R         4.       ELECTRICAL PARTS       PURCHASE ORDER       SPECIFICATION       MANUFACTURERS DOCUMENTS       -       H       R       R       R       R       R       R       R       Image: R	2.		DRAWIN	NGS		DRAWINGS - R R R*												
3.       MOTORS & UNITS       DOCUMENTS       SPECIFICATION       NAMEPLATES       FES       H       R <t< td=""><td></td><td></td><td></td><td>Ī</td><td></td><td></td><td>NOR TO</td><td><u>, AN</u></td><td>DUR</td><td>ING F</td><td>ABRIC</td><td>CATIC</td><td><u> </u></td><td></td><td></td><td></td><td></td><td></td></t<>				Ī			NOR TO	<u>, AN</u>	DUR	ING F	ABRIC	CATIC	<u> </u>					
4. ELECTRICAL PARTS ORDER SPECIFICATION DOCUMENTS - H R R R R R	3.	MOTORS & UNITS	MANUFACTI DOCUME	URERS NTS	SPECIFICATION	NAMEPLATES	YES	н		R		R		R		R		
* Calculations and production drawings are sent to 3 <sup>rd</sup> Party only.	4.	ELECTRICAL PARTS			SPECIFICATION		-	н		R		R		R		R		
$\sqrt{00}$	* Ca	Iculations and pro	oductio	n drav	vings are sent	to 3 <sup>rd</sup> Party onl	<b>y</b> .							٦,	1.0		CRANCE	à)
ITP MK600F														H			20MARt	



AOT					DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	End	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
		STEE		PRIOR TO, ANI		IG FA	BRIC		N – AL	LELE	MEN	<u>rs</u>				
5.	APPROVAL OF WPS, WPQR	WPS'es WPQR's	EN ISO 15609-1 EN ISO 15614-1 OR SIMILAR	WPS'es WPQR's	-	н		н		R		R		R		
6.	APPROVAL OF WELDERS QUALIFICATION	WELDERS CERTIFICATES	EN ISO 9606-1 OR SIMILAR	WELDERS CERTIFICATES	-	н		н		R		R		R		
7.	APPROVAL OF NDT PERSONNEL QUALIFICATIONS	NDT CERTIFICATES	EN 473 / ISO 9712 EWI / IWI OR SIMILAR	NDT CERTIFICATES	-	н		н		R		R		R		
8.	MATERIAL RECEIVING	MATERIAL CERTIFICATES	PRIMARY STEEL: ISO 10204 3.1	LIST OF CERTS. MATERIAL CETIFICATES	-	н		н		R		R		R		
9.	GEARS	MANUFACTURERS DOCUMENTS	SPECIFICATION	NAMEPLATES	YES	н		н		R		R		R		
STEEL WORKSHOP DURING FABRICATION																
CRANE BASE / UNDERCARRIAGE																
10.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
11.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
12.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		м		R		R		R		
13.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			н		R		R		R		
													1			
												J.	<u>' ll</u>		ENMART	/
	ITP MK600F													I	Page 2 o	of 9



ACT					DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	Enc	luser	REMARKS
No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
			STEEL WO	RKSHOP DUR	ING FAE	BRIC	ATION	- CO	NTINU	ED						
				I	PORTAL	-										
14.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
15.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
16.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
17.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			Н		R		R		R		
				MASTHEAD / S		G / TC	OPTOV	VER								
18.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
19.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
20.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
21.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			н		R		R		R		



AOT			ACCEPTANCE		DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFG	CONS	Enc	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
			STEEL WO		NG FAE	BRIC	ATION	- CO	NTINU	ED						
				MACI	NERY D	DECK										
22.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
23.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
24.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
25.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			Н		R		R		R		
					BOOM											
26.	VISUAL CHECK OF EDGE PREPARATIONS AND DIMENSIONS	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
27.	FIT UP	WELD PREP. PROCEDURE	ACC. TO DRAWINGS	-	-	н		R		R		R		R		
28.	SPOTCHECK OF WELDING PARAMETERS	NDT GENERAL PROCEDURE	ACC. TO WPS	-	-	м		М		R		R		R		
29.	CHECK NAMEPLATES ON SECTIONS	-	-	CHECKLIST	-			Н		R		R		R		



QA

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ACT	DESCRIPTION OF	CONTROL	ACCEPTANCE	CERTIFY. /	DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFG	CONS	End	luser	REMARKS
ACT No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
				<u>NDT</u>	INSPEC	TION										
				CRANE BASE	E / UNDE	ERCA	RRIAC	θE								
30.	100% VT. ALL WELD SEAMS	VT PROCEDURE	EN ISO 5817 LEVEL <b>C</b>	VT REPORTS	MECH. FAT			н		R		R		R		
31.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
32.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
				I	PORTAL	-										
33.	***********************************															
34.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
35.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
														6	SH CRANES	R
													. 1		K	

QA

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ACT		CONTROL			DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	End	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
					TION -	CON	<b>FINUEI</b>	<u>D</u>								
			I	MASTHEAD / S		G / TC	OPTOV	VER								
36.	100% VT. ALL WELD SEAMS	VT PROCEDURE	EN ISO 5817 LEVEL <b>C</b>	VT REPORTS	MECH. FAT			н		R		R		R		
37.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
38.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
				MACH	IINERY	DEC	<b>‹</b>									
39.	<sup>39.</sup> 100% VT. ALL WELD VT PROCEDURE EN ISO 5817 LEVEL C VT REPORTS MECH. FAT H R R R R															
40.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
41.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			н		R		R		R		
												Λ	A CONTRACTOR		6 July	
L											•	J.	ll	PENMA		

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A 0 T	DECODIDITION OF		1005574N05		DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	Enc	luser	REMARKS
ACT No.	DESCRIPTION OF EVENTS	CONTROL DOCUMENT	ACCEPTANCE CRITERIA	CERTIFY. / VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
					TION -	CON	TINUE	<u>D</u>								
					BOOM											
42.	100% VT. ALL WELD SEAMS	VT PROCEDURE	EN ISO 5817 LEVEL <b>C</b>	VT REPORTS	MECH. FAT			н		R		R		R		
43.	20% MT. ALL WELD SEAMS	MT PROCEDURE	EN ISO 23278 LEVEL 2X	MT REPORTS	MECH. FAT			н		R		R		R		
44.	100% UT. ALL BUTTWELDS IF UT IS REQIURED IN THE DRAWING. EXTERNAL COMPANY	EXTERNAL PROCEDURE	AS PER DRAWING	UT REPORTS	MECH. FAT			Н		R		R		R		
			TEST	ASSEMBLIES	– STEE		<u>ONSTR</u>	UCTI	<u>ON</u>							
45.	COUNTER JIB ASSEMBLY			PHOTOS TEST ASSY. REPORT	MECH. FAT	н		н		R		R		R		
46.	SLEWING / TOPTOWER / COUNTER JIB / JIB ASSEMBLY			PHOTOS TEST ASSY. REPORT	MECH. FAT	н		н		R		R		R		
47.	JIB ASSEMBLY – FULL LENGTH			PHOTOS TEST ASSY. REPORT	MECH. FAT	н		н		R		R		R		
			PAINT WOR	KSHOP – ALL I		NTS E	XTER		SURFA	CES						
48.	SANDBLASTING	SURFACE TREATMENT PROCEDURE	ISO 8501-1 SA 2½	-	-	н		н		R		R		R		
49.	METALLISATION	SURFACE TREATMENT PROCEDURE	1 X 60 µm	MESUREMENT REPORT	MECH. FAT	н		Н		R		R		R		
50.	PAINT	SURFACE TREATMENT PROCEDURE	1 X 60 µm	MEASEUREMENT REPORT	MECH. FAT	н		н		R		R		R		
	ITP MK600F								X	1.(	le_	S K			Page 7 o	of 9



ACT	DESCRIPTION OF	CONTROL	ACCEPTANCE	CERTIFY. /	DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	Enc	d user	REMARKS
No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
			SUR	FACE TREATM	ENT IN	TERIC	OR SU	RFAC	ES							
51.	PRIMER COAT, ALKYD PRIMER	-	1 X 40 μm	MEASUREMENT REPORT	-			н		R		R		R		
52.	FINISH COAT, ALKYD FINISH PAINT	-	1 X 40 µm	MEASUREMENT REPORT	-			Н		R		R		R		
53.	TOTAL DRY FILM THICKNESS	-	80 µm	MEASUREMENT REPORT	-			Н		R		R		R		
				ELECTRI	CAL WO	<u>DRKS</u>	HOP									
54.	MANUFACTURING OF POWER SYSTEM	ELECTRICAL DRAWINGS	EN 60204-1 / EN 60204-32	-	-	н		М		R		R		R		
55.	MANUFACTURING OF CONTROL- AND ALARM SYSTEM	ELECTRICAL DRAWINGS	EN 60204-1 / EN 60204-32 / EN 62061	-	-	н		М		R		R		R		
56.	PROGRAMMING	-	-	-	-	н		М		R		R		R		
57.	TEST ASSEMBLY OF SYSTEMS AND MOTORS / SAFETY DEVICES	ELECTRICAL DRAWINGS	EN 60204-1 / EN 60204-32 / EN 62061	-	-	н		w		R		R		R		
58.	EL – FAT	INF. REF 4752	EN 60204-1 / EN 60204-32	ELECTRICAL FAT REPORT	EL FAT	н		w		w		w		R		
		1		1	1	1	1	1	1	1		1	1	1	1	

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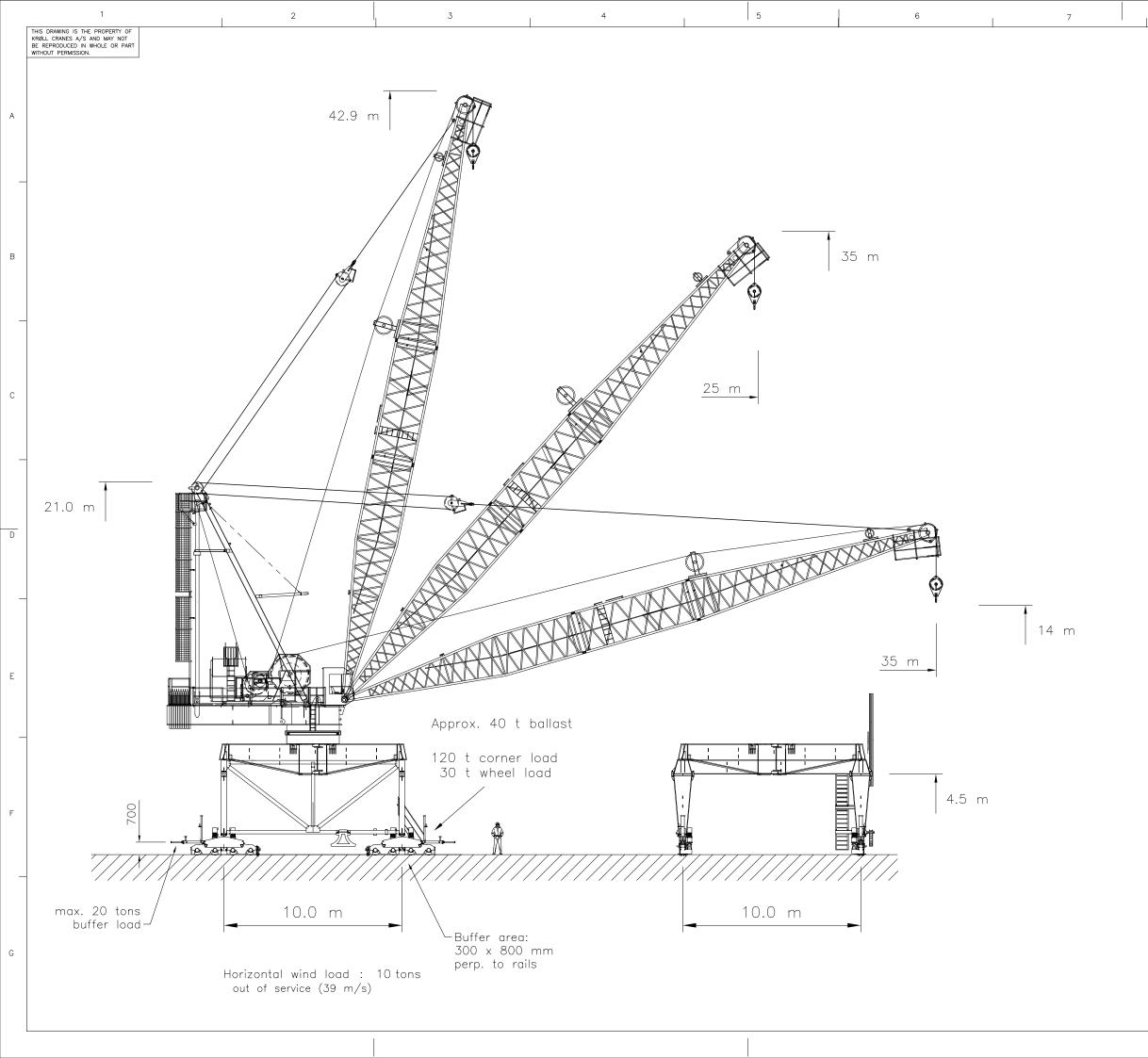


ACT	DESCRIPTION OF	CONTROL	ACCEPTANCE	CERTIFY. /	DOCS.	PF	ROD.	QA	/QC	3 <sup>rd</sup>	party	AFC	CONS	Enc	luser	REMARKS
No.	EVENTS	DOCUMENT	CRITERIA	VERIFY. DOCS.	IN MDR	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	ACT	SIGN	
				DOCL	JMENTA		l									
59.	OPERATION AND MAINTENANCE MANUALS (PREVENTIVE AND CORRECTIVE)	-	EN 14439	MANUALS	-			н		R		R		R		
60.	MANUAL: ERECTION, ELECTRICAL, EQUIPMENTS	-	EN 14439	MANUALS	-			Н		R		R		R		
61.	JOB SAFETY ANALYSIS, ERECTION	-	CLIENT APPROVAL	ANALYSIS				н		R		R		R		
62.	COLLECTING DOCUMENTATION ACCORDING TO CONTRACT	-	CONTRACT	MDR				н		R		R		R		
63.	QUALITY AND CRANE CERTIFICATES	-	CONTRACT.	MDR				н		R		R		R		
				ON-SITE TEST	rs afte	ER EF	RECTIO	ON								
64.	FUNCTIONS TEST (NO-LOAD TEST)	SPECIFICATION REQUIREMENTS	CLIENT APPROVAL	CHECKLIST	-			н		w		w		w		
65.	LOAD TEST	SPECIFICATION REQUIREMENTS	CLIENT APPROVAL	CHECKLIST	-			Н		w		w		W		



QA

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# MK600F

Radius	Boom	
(m)	Angle (°)	SWL
3,3	86,0	50,0
5,0	83,3	50,0
7,5	79,3	50,0
10,0	75,3	50,0
12,5	71,2	50,0
15,0	67,0	50,0
17,5	62,7	48,7
20,0	58,1	41,7
22,5	53,4	36,1
25,0	48,3	31,7
27,5	42,8	28,1
30,0	36,6	25,2
32,5	29,3	22,6
35,0	19,8	20,5
35,9	15,0	19,6

PERFORMANCE

	IOIST WINCH	: 120 kW
3 LINE F	PARTS	
	0-12 t 12-24 t 24-50 t	0–36 m/min 0–24 m/min 0–12 m/min
Γ	full load	2:00 min:sec
I	9-35 m	0-0.6 rpm
I	0-50 t	0-25 m/min
<b>4</b> 3	x 400-440 V 50 Hz	CONTROL VOLTAGE 24 VDC – 220 VAC

KONST.: 230314 JL	PROJ		KRAN1	YPE	STK.	SA	ML. TEGN.			
TEGN. : 230314 JL		$\oplus$								
GODK. : 230314 JL		Ψ								
ERSTATTER:		SKALA	v:	OVERF	. AR	EAL:	OVERFLADE-BEH	ANDLING:	MATR.	:
		1:	100			$m^2$			DIM.:	
ERSTATTET AF:		TOTAL	VÆGT:				ANT. TEGNING.:		ANT.	STYKL.:
						kg	TITEL			
OPRINDELSE:		TRANS	PORTM.	ÅL:						
						m <sup>3</sup>	MK600	)F		
	ØLL	CR/	ANES	A/:	S		Naval	Ship Re	epair	Yard, indien
						₹К	TEGN. NR.			
PHONE:			FAX: -	+45 48 1	88807		C1 - 0	0.00	092	2207-04

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