

QUALITY ASSURANCE DEPARTMENT

	FACTORY ACCEPTANCE TEST FOR PILLAR HOIST	
Depar	tment: Quality Assurance	FAT No.:
Title:	Factory Acceptance Test for Pillar Hoist	<b>Effective Date:</b>
Supers	sedes: Nil	Review Date:

# FACTORY ACCEPTANCE TEST FOR PILLAR HOIST

#### Vendor:

	Title	Name	Signature	Date
Prepared by	Project			
	Engineer			
Reviewed by	Quality			
	Engineer			
Approved By	Quality			
	Manager			

#### **Client Formulations Approvals:**

Title	Name	Signature	Date
Quality Assurance			
Project Engineer			
Project Consultant			



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#### 1 INTRODUCTION

The objective of this Factory Acceptance Test is to verify that the equipment has been built and engineered according to the design specification and as a result approves the equipment for Shipping to site and Handover will be following completion of successful site acceptance test.

This document will be completed as follows:

- 1. All people who enter data into this report will complete the section of this FAT titled 'FAT Personnel'. See Appendix. A, B, C, D, E, F.
- 2. Any corrections in handwriting will be made by deleting with a single pen stroke; the correction will be initialed and dated.
- 3. Entries shall be made in this document using a ballpoint pen or suitable indelible ink in Blue only.
- 4. Compliance will be indicated by a written YES or NO in the relevant boxes provided. 'Ticks' and 'crosses' must not be used.
- 5. Correction fluid is not allowed.
- 6. Each section will be signed and dated by the tester/s when it is complete.
- 7. Any non-compliance identified during the execution of the test protocols must be documented in a Deviation report. These report sheets must be attached to the appendix of this protocol. The report will describe the deviation in detail and, whenever possible, identifying the cause.

The objective of this Factory Acceptance Test is to verify that the equipment has been built and engineered according to the design specification and as a result approve the equipment for handover to the client and shipping to site.



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	Y ACCEPTANCE TEST FO	OR PILLA		
tment: Quality Assurance Factory Acceptance Test for Pillar	Hoist		FAT No.: Effective Date	<b>7•</b>
sedes: Nil	Tioist		Review Date:	•
	der for the material procurement M/s vide the			
Date				
DOCUMENT VERIFIC		1		1
Objective	Ensure that all relevant derreferenced.			
Method	Log the document title, reference number, and approval date and revision number. Any discrepancies to be noted on the review form and on the Deviation Report.			
Acceptance Criteria	All columns in the table sh should be identified, appro			cuments
<b>Document Expected</b>	Reference Number	Rev	Approval Date	Available Yes/No
Purchase Order				
G A Drawing				
URS				
FDS				
Electrical Drawings				
Heat Chart				
<b>Operating Manual</b>				
Manual for Bought out components:				

### Comments

	Signed	Date
Executed By:		
Reviewed By:		



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Objective		To verify that the Major Co	omponents are inst	alled in	
		accordance with the approv	ved GA drawings.		
Metho	od	Take a Copy of the Approv	ved GA drawing, h	ighlight the	
		components present on the	machine in the dra	awing then fill the	
		table below. Fill in the drav	wing number wher	verified. Attach	
		the Highlighted drawing w	ith this document.	Any discrepancies	
		to be noted on the review form and on the Deviation Report.			
Accep	tance Criteria	There should not be any va	riance with approv	ved GA (Drawing	
		No:to be add.			
S.No	PART	MODEL / SIZE /MOC	MAKE	VERIFIED YES / NO	
1.	Pillar				
2.	Bottom Bearing Hgs				
3.	Lifting Arm				
4.	Power Pack				
5.	Power pack motor				
6	Hydraulic Cylinder				
0.	I arran I insit Craitale				
7.	Lower Limit Switch				



Comments

### PHARMA DEVILS

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	Signed	Date
Executed By:		
Reviewed By:		



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#### **EQUIPMENT MOC VERIFICATION**

Objective	To verify that the material of construction of the machine is as per		
	approved documents.		
Method	Verify the material chart and that certificates are available with		
	respect to acceptable standards. Attach the copy of the Material chart		
	along with this document. Use a yellow highlighter pen to mark the		
	components verified. Note down any discrepancy in the discrepancy		
	report in this document.		
Acceptance Criteria	The MOC and test certificates thereof must comply with the		
	requirement of approved documents.		

Comments		
	Signed	Date
Executed By:		
Reviewed By:		
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EQUIPMENT DIMENSION VERIFICATION					
Objective:	To verify that the equipment manufactured is in accordance with				
	approved drawing.				
Procedure:	Refer the approved drawing and compare with the actual				
	dimensions on the equipment. Recheck whether the drawing				
	clearly specifies the manufacturing standards adopted. With a red				
	pen clearly strike off the incorrect dimension and put the correct				
	dimension. Correct the drawing with the proper dimensions name				
	the drawing "FACTORY ACCEPTANCE DIMENSION CHECK				
	DRG". Attach the market drawing with this Document				
Acceptance Criteria	The measured dimensions should be within the acceptable limits.				
Drawing no.:					
Comments:					
	Signed Date				
<b>Executed By:</b>					
Reviewed By:					



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CRITICAL DIMENSION VERIFICATION				
<b>Objective:</b>	To verify that the critical dimensions are met as given in the approved GA			
	drawing.			
Procedure:	Refer the approved drawing and compare with the actual dimensions on			
	the equipment. Recheck whether the drawing clearly specifies the			
	manufacturing standards adopted. With a red pen clearly strike off the			
	incorrect dimension and put the correct dimension. Document it in the			
	deviation if dimensions are out of acceptable limit.			
Acceptance	The measured dimensions should be within the acceptable limits.			
Criteria				

Drawing no.:

Critical Dimension	As mentioned in GA drawing	Actual	Accepted Yes/No
Height of the loader	2900 mm		
Distance between Column & IBC Bin centre.	1000 mm		
Height of lifting arm center from ground at lowest position.	470 mm		
Point of discharge	2074mm		
Height of lifting arm center from ground at maximum position.	2381 mm		

#### **Comments:**

	Signed	Date
Executed By:		
Reviewed By:		



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EQUIPMENT	FINISH VER	RIFICATION			
Objective:	To ensure th	nat the equipmen	t finish is as per the approv	ed drawi	ng.
Procedure:	Stainless Ste	eel Internal finisl	h:		
	➤ There sho	ould be a No. exp	posed threads.		
	➤ There sho	ould be no crevic	es or sharp corners, weld s	platters.	
	➤ Edges sho	ould be smooth a	and rounded off.		
	➤ Using an	RA meter or cor	mparative plate check the e	xternal fi	nish
	> No scratc	hes should be pr	resent on the surface.		
	➤ Mild Stee	el:			
	➤ The part s	should be proper	ly descaled, degreased and	painted.	
	Other equip	ments/Compone	nts should be properly clea	ned, deb	urred and
	should have	no sharp edges.	Any discrepancies to be no	oted on th	ne review
	form and on	the Deviation R	eport.		
Acceptance	The finish sh	hould be as per t	he approved drawing and a	s above.	
Criteria					
Part		Finish SS Surface	Internal finish as specified in the approved documents		Pass/Fail
Pillar	F	External	Ra-0.6(180 Grit Ma	itt)	
Arm	F	External	Ra-0.6(180 Grit Matt)		
Comments:					
		Signed		Date	
<b>Executed By:</b>	Executed By:				
Reviewed By:					



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Objective		To ensure that the Nar	meplate is provided o	on the machine and is ea	sily visible.
		It should clearly ment	ion the name, referen	ace no. of the machine a	nd the date
		of manufacture.			
Procedure	:	Visually inspect the m	nachine for the Name	plate and check whether	r it contains
		the date, reference no.	And date of manufa	cture. Mark /highlight t	the Location
		on the drawing. Any	discrepancies to be n	oted on the review form	n and on the
Deviation Report.					
Acceptanc	ee	The Nameplate has all the above data inscribed on it.			
Criteria					
DESCRIPTIONS			VERIFIED (YES/NO)		
Name Plat	e Loca	tion is Acceptable and	d marked on the		
drawing?					
Model: GN		P	Capacity:		Pass/Fail
Type:	LOA	ADER CUM TIPPER	Date of Mfg.:		
MOG	SS3	16	Inspection By:	CLIENT	
MOC:	555	-	•		



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Comments:		
	Signed	Date
Executed By:	_	
Reviewed By:		
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COMPROL	ANIEL BLILL DOLLA LIENZ	
	ANEL BUILD QUALITY	
<b>Objective:</b> To ensure that the electrical equipments are assembled as per electrical Ga		
	drawings.	
<b>Procedure:</b>	Check orientations, drawings, and placement of	of switchgears as per GA.
	Highlight the components on the GA, so verifie	ed. Any discrepancies to be
	noted on the review form and on the Deviation Re	port.
Acceptance	All the equipments are assembled as per GA.	
Criteria		
	Description	Verified
		Yes/No
Electrical Equi	pments orientations are as per GA Drg no	
Electrical Wiri	ng Diagram Attached?	
Panel Build Qu	nality Acceptable?	
Comments:		
	Signed	Date
<b>Executed By:</b>		
Reviewed By:		



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ELECTRIC	AL WIRING DIAGRAM				
Objective: To compare the electrical components in the panel and the wiring					
	identification with the electrical drawings.				
Procedure:  The tester will compare the installed components with those spect drawings and check the wiring identification is as shown on the dwill mark with a 'highlighter' pen each of the details on the drawing verified. A minimum of 20% of the components fitted will be che highlighted. Any correction to the drawing will be written on the the relevant item in RED ink.			awings and g which are ked and		
	When the tester has completed the check they will oup print and write the words: - 'FACTORY ACCEPTANCE TEST ELECTRICAL CHECK'				
	The tester will attach the Marked-Up print to this report as an appendix given below. All attachments to this protocol to be marked up with this protocol number including the number of pages and the appendix to which it is attached.				
Any items on the drawings in non-compliance will be detail report.			deviation		
Acceptance	The connections are as per the wiring diagrams.				
Criteria					
<b>Electrical Dra</b>	wing No.:	Rev. No.	Pass/Fail		
Comments:					
	Signed	Date			
<b>Executed By:</b>					
Reviewed By:	eviewed By:				



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ELEC	ELECTRICAL COMPONENT				
Objective		Confirm that all the electrical Components/Wires are as per			
		given Tag in the drawin	gs.		
Method	1	Verify that the tags on t	the Comp	onents and w	vires are as per the
		wiring diagrams. Fill in	the table	below. Any	discrepancies to be
		noted on the review form	n and on	the Deviation	Report.
Accepta	ance Criteria	The tag Numbers should	l tally.		
S.No.	Description Of components	Type / Specification	Qty.	Make	Verified Yes/No
Comme	Comments:				
		Signed		Dat	te
Execute	d By:				
Reviewed By:					



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edes: Nil		Review Date:
WIRING TUG TES	Γ	
Objective	Confirm that all the wires are connected	ed to the electrical
	components tightly.	
Method Lightly Pull all the wires connected to the electrical compo		to the electrical components
	one by one testing any loose connec	tions. Redo the connection if
	any is found loose. Any discrepancie	es to be noted on the review
	form and on the Deviation Report.	
Acceptance Criteria	Ensure all wires connected tightly to t	he electrical components.
Comments:		
	Signed	Date
Executed By:		
Reviewed By:		



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QUIPMENT CONTROL FUNCTIONS AND INTERLOCKS VERIFICATION					
EQUITIENT CONTROL FO	DING HUNG AND INTER	LOCKS VERII	TCATION		
Objective	To verify that the equip	oment controls and	interlocks		
	function as specified in	the manual			
Method	Run the machine. By o	perating verify and	check		
	whether the controls an	whether the controls and interlocks are in place by			
	simulating the conditio	simulating the conditions. Any discrepancies to be			
	noted on the review for	noted on the review form and on the Deviation Report.			
Acceptance Criteria	The Controls and interl	The Controls and interlocks should function as per the			
	manual				
Controls	Procedure For Simulating condition	Observation Pass/Fail			
5. General					
5.1. Overload Relay					

	Interlock on	Description	Procedure For	Observ	ation	Pass/Fail
			Simulating condition			
P	ower pack	Limit interlock	Power pack motor stops when upper or lower limit switch is pressed.			
C	omments					
			Signed		Date	
E	xecuted By:					
R	eviewed By:					



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LOAD TRIAL VERIFICA	OAD TRIAL VERIFICATION			
Objective	To verify the functionality of the tipper.			
Method	Fill the tipper cone with dummy Powder & then lift & Tilt the Tipper cone up and bring it down.  Document the results on the attachment.			
Acceptance Criteria	The lifting and Tilting operation happens gently and without jerk. There should be no abnormal sound during operation.			

#### MOTOR TRAIL WITH -----KG LOAD

Mo	tor RPM	Hydraulic	Motor Temp.	Ampere	Noise	Complies
		Pr.	<80 <sup>0c</sup>	R, Y, B	Level<80db	Yes/No
				1.5 Amp		
144	0					

HYDRAULIC SYSTEM

Le	akage from hydraulic	Acceptance Criteria	Complies
	system		Yes/No
		NO LEAKAGE	



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	Signed	Date
Comments:		

	Signed	Date
Executed By:		
Reviewed By:		



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#### Post approval

Acceptance of the successful completion of the FAT, including satisfactory resolution of all discrepancies noted during execution, will be documented below, signed by the person with overall review responsibility for the protocol and by the client's authorized signatories who approved the protocol.

The FAT data for this equipment has been reviewed and found to be acceptable as per acceptance criteria.

Agreed criteria	Agreement YES / NO
1. Approval subjected to shipment as is	
2. Machine is approved with correction of all Deviation noted during FAT	
3. Machine is not approved & will require repeat FAT following correction of all	
deviation.	

Vendor			
Reviewed By	Print Name	Signature	
Reviewed By			

Client				
	Print Name	Signature	Date	
Consultant				
Engineering				
<b>Quality Assurance</b>				



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#### APPENDIX A - FACTORY ACCEPTANCE TEST (FAT) PERSONNEL

Print Name	Signature	Date	Company



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Number	Description	Attachec Yes/No
		L
	Comments	
	1 1 / C 1	
ested By: (Vendor)	Approved By (Client)	
ate .	Date	

Tested By: (Vendor)	Approved By (Client)
Date	Date



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#### APPENDIX C - DEVIATION REPORTS PROCEDURE

During FAT testing, a Deviation Report must be raised when there is a failure to meet acceptance criteria.

#### The aim is to:

- Clearly describe the deviation.
- To document and approve the evaluation of the impact of the deviation.
- To document and approve the corrective action required to resolve it.
- To document the closing out of the deviation with the appropriate approvals.

#### **Procedure**

- a. If a test step fails to meet test acceptance criteria/method then a Deviation Report must be raised. See Appendix.
- All Deviation Reports must be logged by completing the Deviation Report Register. See Appendix
- c. Each Deviation Report must reference the following identification numbers:
  - a. `Protocol document reference number.
  - b. The applicable test reference number (XX) as defined in the protocol.
  - c. A unique deviation reference number, which comprises the specific test number and a sequential deviation number (YY) for that test in the format XX/YY. Subsequent deviations on the same
- d. The person raising the deviation must clearly describe the exact nature of the deviation (why acceptance criteria/method has not been met) using the 'details of deviation noted' box provided.
- e. The deviation must be fully evaluated and the necessary corrective action formulated and must be pre-approved by Vendor & the Client. The findings of this evaluation together with details of corrective action required to resolve the deviation should be clearly documented by completing the 'evaluation of deviation/corrective actions to be taken' box.
- f. Once the proposed corrective action has been pre-approved, the tester will execute the corrective work and verify implementation of corrective action by completing the 'Results of Corrective Action' box. The tester will then sign and date the Deviation report.
- g. The completed Deviation Report will require approval by the appropriate personnel on the Deviation Report.
- h. Completed Deviation Reports must be attached to the Appendix of this FAT protocol.



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#### APPENDIX D - FAT DEVIATION REGISTER

<b>Deviation Report</b>	Brief Description	Date	Date	Checked By
No.		Raised	Closed	



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ent: Quality Assurance	e Dill III		FAT No.:	
actory Acceptance Test for Pillar Hoist des: Nil			Effective Date: Review Date:	
	DDIWARYON -	PODE CITE	Actes Dans	
APPENDIX E  Deviation No:	E - DEVIATION RE	Test Reference:		
Details Of Deviation	Noted:			
Completed By:			Date:	
	tion / Corrective Acti	ions To Be Taken:	l	
Completed By:		Date:		
	- EVALUATION / C	Date: ORRECTIVE ACTIONS		
PRE-APPROVALS			he necessary corrective act	tions t
PRE-APPROVALS The following signature		ORRECTIVE ACTIONS	he necessary corrective act Signature	tions t
PRE-APPROVALS The following signatutaken.	Pre- Approval Required	ORRECTIVE ACTIONS content of the evaluation and the		tions t
PRE-APPROVALS The following signate taken. Function	Pre- Approval Required	ORRECTIVE ACTIONS content of the evaluation and the		
PRE-APPROVALS The following signaturation  Function  Vendor  Client	Pre- Approval Required (Yes / No)	ORRECTIVE ACTIONS content of the evaluation and the		tions to
PRE-APPROVALS The following signaturates. Function Vendor	Pre- Approval Required (Yes / No)	ORRECTIVE ACTIONS content of the evaluation and the		tions t
PRE-APPROVALS The following signaturation  Function  Vendor  Client	Pre- Approval Required (Yes / No)	ORRECTIVE ACTIONS content of the evaluation and the		tions to
PRE-APPROVALS The following signaturation  Function  Vendor  Client	Pre- Approval Required (Yes / No)	ORRECTIVE ACTIONS content of the evaluation and the		
PRE-APPROVALS The following signaturation  Function  Vendor  Client	Pre- Approval Required (Yes / No)	ORRECTIVE ACTIONS content of the evaluation and the		tions to
PRE-APPROVALS The following signaturation  Function  Vendor  Client	Pre- Approval Required (Yes / No)	ORRECTIVE ACTIONS content of the evaluation and the		

APPROVALS - RESULTS OF CORRECTIVE ACTIONS/ DEVIATION CLOSE OUT



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The following signatures approve the results corrective actions taken and the closure of the deviation.				
Approvals	Name (Print)	Signature	Date	
Vendor				
Client				



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	Description	Number/Revision
	Comments	
( 1D (W 1 )	12.00	0
sted By: (Vendor)	Approved By (Cli	ent)
nte	Date	



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CLEANLINESS AND API	PEAR	ANCE		
Objective		Equipment a	and parts thereof properl	y cleaned after the
		Factory acce	eptance tests	
Method		Physically 6	examine the internal we	etted part of equipment.
		Ensure there is no material retention, all surfaces are		
		properly washed and fit for client use fill out the table below.		
		External Sur	rface:	
		All surfaces	s should be cleaned for	stains or marks if any.
		Visually in	spect the cleaning after	er it is complete. Any
		discrepancie	es to be noted on the	review form and on the
		Deviation Report.		
Acceptance Criteria		Machine sho	ould be thoroughly clean	ned
Part	D. 4		Part (	Cleaned
Tart			Ye	es/No
Pillar	Exte	rnal		
Lifting Arm	External			
Control panel	External			
Tipper cone	inter	nal		
Tipper cone	Exte	rnal		
Comments:				
		Signed		Date
Executed By:				
Reviewed By:				



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POST FAT DOCUMENT				
Objective	The machine has been dismantled and packed in accordance			
	with PO and site conditions			
Method	Machine should be dismantled, marked and matched to			
	facilitate ease of Installation	on. Individual Sub-		
	assemblies/components so dismant	led should be wrapped in		
	plastic and packed in accordance with the Shipment			
	protocol. In case of over seas assignments painted pats			
	should be greased and labeled" DE-GREASE BEFORE			
	USE". Sub-assemblies/components should be properly			
	secured to packing to prevent transit damage A detailed packing list will be filled as per format and signed out.			
Acceptance Criteria	Packing list should be complete and no. of components must			
	tally with list. Packing sizes should be in accordance with			
	commercial documentation.			
Comments:	1			
	Signed	Date		
<b>Executed By:</b>				
Reviewed By:				