

Project:- TUIRIAL HEP (2X30 MW)  
Name of Equipment :-ELEVATOR

Client:-  
Vendor:-  
P.O. No/reference:-

SL. No.	Item / Components & Characteristics	Nature of Check	Quantum of Check	Ref. Document/Acceptance Norms	Inspection Agency		Remarks
					Perform	Witness	
1.1	Raw Material & Bought Out Items Plates, Flats, Channels, Guide Rail Section Car a) Mechanical Properties b) Chemical Properties c) Dimensional Checks	Test: -do- Measurement	Sample -do- -do-	Tech. Spec. Approved Drg./ IS 2062 Spec / IEC -do- -do-	2/3	-	TC
					2/3	-	TC
					2/3	-	TC
1.2	Rolled Bar of Shaft a) Sub surface Defec:(Ultrasonic test)	Test	-do-	-do-	2/3	-	TC
1.3	Casting (Pully, Traction, Sheave, Gear housing) a) Surface Finish & Blow Holes b) Mechanical Properties c) Chemical Properties d) Dimensional Checks e) NDT test(DP test only)	Visual test -do- measurement test	100% Sample -do- 100%	Tech. Spec:Approved Drg./IS 2'0-09:FG 150 or FG 300/IEC -do- -do- -do-	2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC
1.4	3 Phase, 50 Hz, 415V, Sq.Cage AC Induction Motor a) Make & Rating b) Routine Test c) Type Test	Visual electrical Test	100% -do- Sample	Tech. Spec:Appd. Drg/datasheet/ IS 325 -do- -do-	2/3	-	TC
					2/3	-	TC
					2/3	-	TC
1.5	Worm Geared Machine (Winding Gear Assembly) a) Make a Rating b) Backlash of Gear c) Running Test d) Reduction Ratio e) Oil Leakage Test f) No Load Running in Either Direction g) Vibration Check(at site) h) Noise Level with Motor Assembly	Visual Test -do- -do- test electrical measurement -do-	100% 100% -do- -do- -do- -do- -do-	Tech. Spec: Approved Drg./ IS/IEC -do- -do- -do- -do- -do-	2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC
					2/3	-	TC

Note:-a. In inspection agency column figure 1,2 or 3 to be filled. Indicate NEEPCO ,2 will indicate supplier & 3 will indicate sub-supplier  
b. In remarks column following abbreviations shall be used-RR-review of record; TC-test certificate Submission & C-IP-Customer Hold point  
c. Test certificates shall be submitted at the time of final inspection

*[Signature]*  
05/09/15

Signature & Seal  
NEEPCO(CA & T Dept.)

Signature & seal  
(Vendor/ O.C. DEPT OR REPRESENTIVE)


# QUALITY ASSURANCE PLAN

Project:- TUIRIAL HEP (2X30 MW)  
Name of Equipment :-ELEVATOR

Client:-  
Vendor:-  
P.O. No/reference.:-

SL. No.	Item / Components & Characteristics	Nature of Check	Quantum of Check	Ref. Document/Acceptance Norms	Inspection Agency			Remarks
					Perform	Witness	Verify	
1.6	Molded Rubber Item(absorber)( if applicable) (a) Dimensional check (b) Hardness	Measurement physical	-do-	Tech. Spec/Approved Drg./IS/IEC -do-	2/3 2/3	-	1 1	TC TC
1.7	Trailing Cable, Power Cable(FR ) & Control Cable(FR) a) Make, Type & Rating b)(Acceptance test(Routine Test)	Visual Electrical	100% -do-	Tech. Spec/Approved Drg./ IS 694 & IS 7098./IEC. -do-	2/3 2/3	-	1 1	TC TC
1.8	Controller Assembly a) Make & Rating c) functional Test	Visual Test	100% -do-	Tech. Spec/Approved Drg./IS/IEC -do-	2/3 2/3	-	1 1	TC TC
1.9	Rope a) Size, Make & Rating b) Routine Test c) Proof load test	Visual Electrical Test	100% -do- Sample	Tech. Spec./ Approved Drg. IS 2365 or 2266 -do- -do-	2/3 2/3 2/3	-	1 1 1	TC TC TC
1.10	Control Panel Routine Test	Electrical	100%	Tech. Spec. Approved Drg. IS/IEC	2/3	-	1	TC
1.11	Speed Governing Assembly a) Make & Rating b) Performance Test	Visual Test	1/type -do-	Tech. Spec/Approved Drg./ IS14665 -do-	2/3 2/3	-	1 1	TC TC
1.12	Telephone & Battery Charger (if applicable) a) Make & Rating b) Functional Test	Visual Test	-do- -do-	Tech. Spec./ Approved Drg. -do-	2/3 2/3	-	1 1	TC TC
1.13	Spring Buffer / Oil Buffer a) Make, Rating b) Mechanical Properties c) Chemical Properties d) Dimensional Checks e) Outside Dia. & Stroke f) Test Load (Spring Buffer) g) Spring Constant Compression h) Retardation Test ( Oil Buffer ) i) Strength Test ( Oil Buffer ) j) Plunger Return Test ( Oil Buffer ) k) Test for Lateral Movement ( Oil Buffer )	Visual test -do- Measurement Test Physical Mechanical Test Test Test	100% Sample -do- -do- 100% -do- -do- -do- -do- -do- -do-	Tech. Spec./ Approved Drg./IS 14665 Part-4 -do- -do- -do- -do- Tech. Spec./ Approved Drg./IS 7906 Tech. Spec./ Approved Drg./IS/IEC -do- -do- Tech. Spec./ Approved Drg./IS 14665 Part-4 -do- -do-	2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3 2/3	-	1 1 1 1 1 1 1 1 1 1 1	TC TC TC TC TC TC TC TC TC TC TC
1.14	Car Assembly a) Visual ( Check of bent, scratch) b) Dimensional Checks	Visual Measurement	1/type -do-	Tech. Spec./Approved Drg./IS 14665/EC -do-	2/3 2/3	-	1	TC TC

Note:- a. In inspection agency column figure 1,2 or 3 to be filled. Indicate NEEPCO .2 will indicate 'supplier' & 3 will indicate 'sub-supplier'  
b. In remarks column following abbreviations shall be used-RR-review of record, TC-test certificate Submission, WC- Warranty Card & CHP-Customer Hold Point  
c. Test certificates shall be submitted at the time of final inspection.

  
05/09/11

Signature & Seal  
NEEPCO(QA & I Dept.)

Signature & seal  
(Vendor: C.C. DEPT OR REPRESENTIVE)

# QUALITY ASSURANCE

Project:-TUIRIAL HEP (2X30 MW)  
Name of Equipment :-ELEVATOR

Client:-  
Vendor:-  
P.O. No./reference:-

SL. No.	Item / Components & Characteristics	Nature of Check	Quantum of Check	Ref. Document/Acceptance Norms	Record format	Inspection Agency			Remarks
						Perform	Witness	Verify	
2	Final Inspection-Acceptance tests at manufacturing works	Visual	100%	Tech. Spec/Approved Drg./IS/IEC	JIR	2/3	1		
2.1	BOM Check	Electrical	-do-	Tech. Spec/ Approved Drg./IS Spec	JIR	2/3	1		
2.2	Tests For Operation :								
a)	Satisfactory Operation of each controller, switch, contactor , starter, relfing cam, relay & other control devices and the correct operation of all limit switches under the most unfavourable conditions.	Electrical	-do-	-do-	JIR	2/3	1		CHP
b)	Correctness of all circuits & interlocks and sequence of operation	Electrical	-do-	-do-	JIR	2/3	1		
c)	Satisfactory Operation of all Protective Devices.	Electrical	-do-	-do-	JIR	2/3	1		
d)	IR Test of Control Panel	-do-	-do-	-do-	JIR	2/3	1		
e)	H.V. Test of Control Panel	-do-	-do-	-do-	JIR	2/3	1		
i)	Between the live parts & case or frame with all circuits completed.	-do-	-do-	-do-	JIR	2/3	1		
ii)	Between main terminals or equivalent parts with all circuits open.	-do-	-do-	-do-	JIR	2/3	1		
iii)	Between any live parts of independent circuits.	-do-	-do-	-do-	JIR	2/3	1		

Sl. no. 1.5:Vibration test done at Site.

Note:-a. In Inspection agency column: figure 1,2 or 3 to be filled , 1 indicate NEEPCO ,2 will indicate "supplier" & 3 will indicate " sub-supplier"  
b. in remarks column following abbreviations shall be used:RR-review of record,TC-test certificate Submission & CHP-Customer Hold point  
c. Test certificates shall be submitted at the time of final inspection

Signature & Seal  
NEEPCO (QA & I Dept.)

Signature & seal  
(vendar Q.C. DEPT OR REPRESENTIVE)

*[Handwritten Signature]*  
05/09/18