



## INSPECTION TEST PLAN (ITP)

Code1	<input type="checkbox"/> <b>Approved</b> No comment and the document is released for Manufacturing.
Code2	<input type="checkbox"/> <b>Approved with comment</b> Vendor shall correct, revise and resubmit the document.The document can be released for Manufacturing if changes incorporated.
Code3	<input type="checkbox"/> <b>Commented</b> Vendor shall correct revise and resubmit the document by the date specified.The document shall be revised under the Status of "R Revised Issue" All corrected documents shall be resubmitted before starting the Manufacturing.
Code4	<input type="checkbox"/> <b>Not Accepted (Rejected)</b> Vendor shall re-work/re-design/re-specify the contents of the documents according to the comments/ reasons for rejection.All corrected documents shall be resubmitted before starting the Manufacturing.
Date <hr/> Dept: <hr/> Signature: <hr/>	

Prepared By : QC manager	Verified By : QC manager	Verified By : Factory Manager	Verified By : Managing Director
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# RUNIN SANAT CO.

Doc ID: R-QC-06-08

Revision: 00

## INSPECTION TEST PLAN (ITP) FOR MV SWITCHGEAR

Page: 3 of 4

Client :

Date:

Project :

RUNIN :

Activity	Characteristic to be Verified	Reference Procedure	Acceptance Criteria	Verifying Document	Test performed by			
					S	CO	T	CL
<b>1. Incoming Inspection</b>								
<b>1.1 - Raw material</b>								
a) Steel plate	visual inspection , dimensional							
b) Copper	measurements , certificate or conformance marks analysis		Certificate	Certificate	H	WI	R	R
c) Wire	conformance marks							
d) Isolators	analysis							
<b>1.2 - Accessories</b>								
a) Mechanical and electrical parts	visual inspection and quantity check	R-QC-07-01	Certificate	Certificate	R	WI	WI	R
<b>1.3 - Electrical equipment and certificate</b>								
a) Electrical equipment	visual inspection , certificate or conformance marks analysis	R-QC-07-01	Certificate	Certificate	R	WI	WI	R
<b>2 - In-process Inspection</b>								
<b>2.1 - Pre - Inspection Meeting (PIM)</b>								
					H	H	H	H
<b>2.2 - Pre - fabrication</b>								
a) Steel components, Cutting, Punching, Bending	Visual and dimensional inspection	R-QC-07-01	Quality control form	check list	H	SW	R	R
b) Copper components, Cutting, Punching, Bending								
<b>2.3 - Soldering, Trimming Inspection</b>								
a) Soldering, Trimming Inspection	Visual and dimensional inspection	R-QC-07-01	Quality control form	check list	H	WI	SW	R
<b>2.4 - Rust prevention Painting inspection</b>								
a) Rust prevention Painting inspection	Visual and thickness inspection	R-QC-07-01	Quality control form	Test report	H	WI	WI	R
<b>2.5 - Assembly workshop</b>								
a) Structure, Withdrawable, bus bars, mounting equipment, wiring	Visual inspection , functions test, correctness and tightness of wiring connection, component assembly,	R-QC-07-01	Quality control form	Test report	H	SW	SW	R

Lettering:

CO : Contractor

R : Document Review(Visual inspection)

T : Third Party

WI: Witness Point (Notification required, Presence not mandatory, Test & inspection)

CL : Client

H : Hold Point (Notification required, Presence mandatory)

S : Supplier(Vendor)

SW : Spot Witness (Notification required, Presence not mandatory, random check)



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<b>3 - Final inspection and tests</b>								
<b>3.1- Visual inspection</b>								
a) Visual inspection	General inspection of the correct assembly	R-QC-07-01	Quality control form	Test report	H	WI	H	WI
<b>3.2- Mechanical operation test</b>								
a) Mechanical operation test	Verification of adjustments , drives and interlocks, interchangeability of breakers	R-QC-07-01	Quality control form	Test report	H	WI	H	WI
<b>3.3- Electrical operation test</b>								
a) Electrical operation test	Verification of the busbars, wiring , electrical devices and etc.	R-QC-07-01	Quality control form	Test report	H	WI	H	WI
<b>3.4- Dielectric test on the main circuit</b>								
a) Power frequency voltage test	Power frequency voltage test	R-QC-07-01	Quality control form	Test report	H	WI	H	WI
<b>3.5- Insulation resistance measurement</b>								
a) Insulation resistance measurement	Insulation resistance measurement	R-QC-07-01	Quality control form	Test report	H	WI	H	WI
<b>3.6- Current injection test</b>								
a) Current injection test	Current injection test on Relays, CTs, Transducers	IEC62271-200 IEC 298	IEC62271-200 IEC 298	Test report	H	WI	H	WI
<b>4 - Packaging and Marking (switchgears , accessories and components)</b>								
Packaging and Marking, switchgears , accessories and component	Verification of entirety, correct packing and loading documentation, Packing & marking quantity	R-QC-07-01	Packing, marking & shipping procedure	Packing list	H	R	R	R
<b>5-Final book</b>								
Final book	Certificate	Certificate	—	—	H	R	R	R

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