

# Type Approval for Telecom equipment in Egypt

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# Legal Framework

## - **Type Approval concern:**

Compliance of the equipment with applicable RF, EMC, Safety, SAR and Telecom standards.

## - **According to Egypt Telecom. Law 2003,** it's prohibited to import or manufacture or assemble a communication equipment not complying with NTRA type approval standards.

## - **What equipment requires NTRA Type Approval?**

Almost all Indoor/Outdoor, Wired/Wireless Telecommunication equipment excluding Radio & TV Broadcast equipment

Ex.: Phones, Routers, switches, phones, GPS navigators, Portable Radios, RFID readers and tags,.....)

## - **Who is Type Approval applied on?**

1) Any local manufacturer who makes or assembles telecommunications products or its authorized agent or

2) Any overseas principal (Manufacturer, Representative, Agent, Type approving agency,...etc.); or

3) Any locally registered agency acting on behalf of any overseas principal.

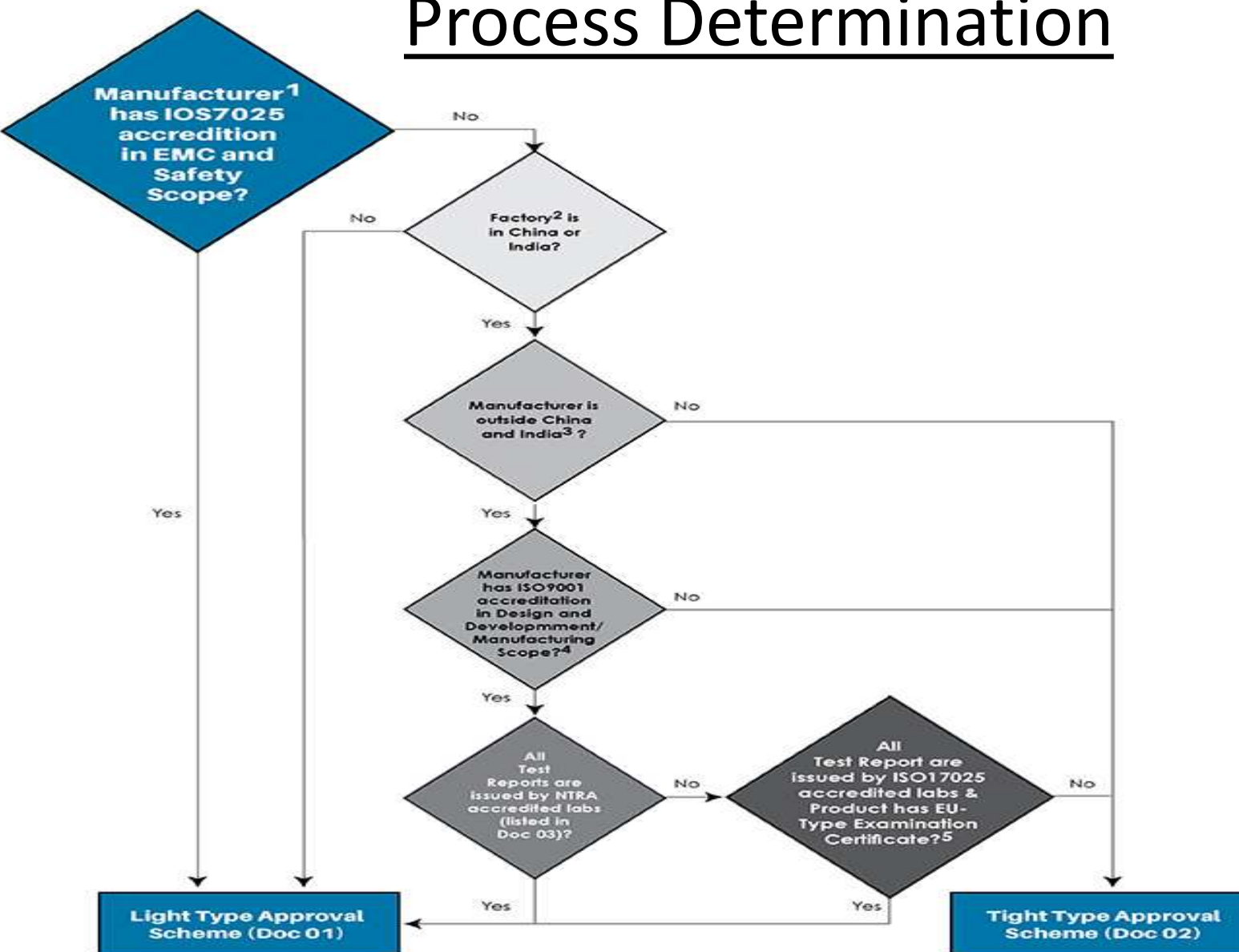


# Market Compliance Problems

- Health problems from illegal mobile phones not complying with SAR requirements (usually complain of headache when making calls).
- EMC problems in many equipment affect the performance of electrical home devices
- RF Interference problems due to wireless devices bought from overseas for personal use:  
EX: DECT 6.0
- Safety problem of mobile phones non-compliant Batteries (leads to mobile explosion in many cases)



# Process Determination



## Notes :

1. Manufacturer is the brand owner
2. Factory is the place where manufacturing process takes place.
3. NTRA may add other countries in the future.
4. ISO9001 certificate is only accepted from accreditation bodies accredited to Product Certification ISO/IEC17065 Standard.
5. EU-Type Examination Certificate is only accepted from Notified Bodies accredited by European Union Notification Authorities.



# Procedure Types

	Light Scheme	Tight Scheme
Compliance Testing	Yes	Yes
Notified Body Certificate (EU-Type Examination Certificate)	<b>Only in case of not accredited labs</b>	Yes
Verification of Compliance (VoC) from an accredited lab.	No	Yes
Pre-Shipment Verification of Compliance (PVoC) from an accredited lab.	No	Yes



# ICT Reference Standards

	CE	IEC	FCC	UL
Radio Frequency (RF)	Yes	----	Only in common frequencies.	---
Electromagnetic Compatibility (EMC)	Yes	Yes	For wired equipment: Yes  For wireless equipment: Only in common frequencies.	---
Safety	Yes	Yes	----	Yes
SAR	Yes	Yes	Yes	---
Telecom	Yes	---	Yes	--



# Responsible Institutions

## 1) Egyptian Customs:

- stops communication
- approval and draw

## 2) National T...

- Puts
- Accred
- check pr
- local tests, i
- Approves eac
- receives non-co
- performs Market

## 3) NTRA Accredited Labs

- Performs complete comp
- China and India accredited



NTRA.

double check

components inspection.



# China and India Accredited Labs (involved in Tight Scheme)







# Future Vision

- To facilitates Type Approval Lab to be able to perform all compliance tests (Safety tests are in priority)
- To lead an awareness campaign on the harms of non-compliant products.
- To participate effectively in international standardization activities.
- To make more special agreements with labs in other countries (Asian Developing Countries are in priority).
- To make mutual-recognition agreements with other regulators (Middle East Countries are in priority)