

India Radio Type Approval (WPC, TEC, BIS, BEE)

India Type Approval may consist of four schemes, each applicable based on product characteristics: **WPC** (Wireless Planning and Coordination); **TEC** (Telecom Public Network); **BIS** (Bureau of Indian Standards) and **BEE** (Bureau of Energy Efficiency).



Summary of WPC certification process

Radio frequency transmitter and receiver products intended to be marketed in India that make use of the radio spectrum or connect to the public network are subject to a mandatory approval process issued by the Wireless Planning and Coordination (WPC). Moreover, an Authorized Indian Representative (AIR) must obtain the WPC Certificate of Conformity.

WPC's compliance testing activities with Type Approval requirements are based on ETSI (EU) and/or FCC test reports. Additionally, the certificate of approval, either the EU-Type Examination Certificate or the FCC Grant, must also be part of the technical documentation submitted to WPC. The WPC Certificate is indefinitely valid.

WPC Product marking

No specific product marking requirements apply for WPC approval.

Summary of TEC certification process

Telecommunication devices that connect to the Indian Public Network must apply for Telecommunication approval issued by the Telecommunication Engineering Center (TEC). There are Essential Requirements (ER) prepared by TEC with requirements for each specific equipment type.

When applying for the TEC certificate, the applicant (who must be an Authorized Indian Representative) must apply for approval at the corresponding Regional TEC Office (RTEC), which can be found in Bangalore, Delhi, Kolkata and Mumbai.

Testing for TEC compliance must be performed by local CABs or MRA accredited CABs. Applicants must upload the **required details** through the MTCTE Portal. TEC staff will then review the given details and communicate the provisional ERs to be applied when testing the equipment. The TEC Certificate has a 5-year validity period.

TEC PRODUCT MARKING

After the TEC Certificate has been granted, the product must be marked with TEC's official label, which must contain the certification approval number and the model number.

A sample of the TEC label is shown below:

Summary of BIS Certification Procedure

The BIS (Bureau of Indian Standards) is a conformity marking assessment system and it serves as an electrical and electronic safety mark. An Authorized Indian Representative (AIR) is required to hold the BIS Certificate of Conformity and must send a sample of the equipment to a BIS-approved Indian laboratory for testing. After testing, the authorized Indian representative must apply for type approval through the BIS website by uploading the required documentation.

There is a list of 61 products that are subject to the BIS approval. The BIS Certificate has a 2-year validity period.

BIS PRODUCT MARKING

Applicants must affix the BIS Certification mark after the certificate of approval has been granted. The "IS" certification number, i.e. the Certification Identification, and the registration number must appear on the label, and the font size cannot be less than Arial size 6. A sample of the BIS label is shown below:

Summary of BEE Certification Procedure

BEE (which stands for Bureau of Energy Efficiency) is a certification process focused on prescribing limits of energy consumption (or minimum levels of energy efficiency) that registers products intended to be marketed in India.

When compliance with energy efficiency has been proven, BEE grants Star Rating Labels (from 1 to 5) to appliances based on their design and performance.

Equipment such as Audio/Video, Household Appliances, LED/Luminaries and Power Transmission Devices are subject to BEE approval. The BEE Certificate has a 3-year validity period.

BEE PRODUCT MARKING

Energy efficiency labels are informative labels affixed to products in order to display energy performance. These labels give consumers the necessary information to make informed purchases by rating product efficiency from 1 to 5. An example can be found below: