

## प्रमाणन प्रक्रिया

सं: टीईसी/एमपी/डीडी/टीएपी-701/01/नवंबर-15

(पुरानी सं: टीईसी/सीपी-001/01/ नवंबर-2015)

## CERTIFICATION PROCEDURE

No. TEC/MP/DD/TAP-701/01/NOV-15

(Old No. TEC/CP-001/01/Nov-2015)

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### दूरसंचार अभियांत्रिकी केंद्र

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This procedure is subject to modifications/amendments from time to time without any prior notice.

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**TELECOMMUNICATION ENGINEERING CENTRE  
DEPARTMENT OF TELECOMMUNICATIONS**

**CERTIFICATION PROCEDURE**

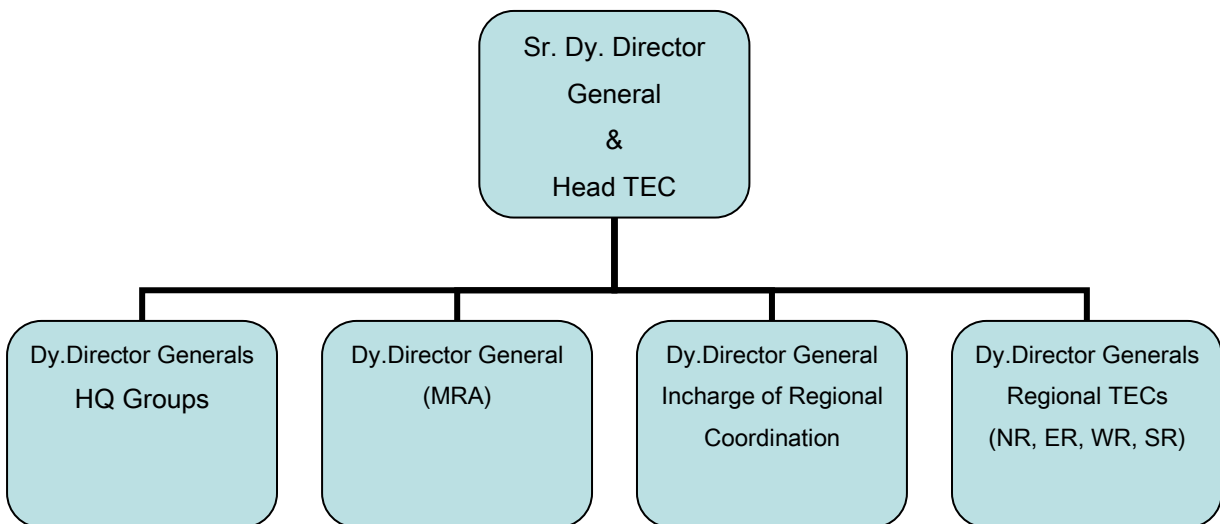
**1. Introduction**

This document describes the certification procedure adopted by Telecommunication Engineering Centre (TEC) for Products/Systems related to Telecommunication against specifications as mentioned in para 2 of this document.

This document supersedes the earlier document No. 005 TAP TEC/ MAY 96 as reprinted in the year 2000 and orders/instructions issued thereafter regarding testing and certification procedure.

**1.1 Telecommunication Engineering Centre**

The Telecommunication Engineering Centre (TEC), is a wing of Department of Telecommunications, Government of India. The brief organizational setup of TEC with regard to testing and certification process is as follows:



1.1.1 The Role of Head Quarter (HQ) Groups is inter-alia to formulate the following technical Specifications besides Standard (SD):

- (i) Interface Requirement (IR)
- (ii) Generic Requirement (GR)
- (iii) Service Requirement (SR)

1.1.2 The HQ Groups also prepare the Test Schedule & Test Procedure (TSTP) for specifications issued by them. Each HQ group is headed by a Dy. Director General.

1.1.3 TEC has four Regional Centres called RTECs. These are RTEC(NR) for Northern region, RTEC(ER) for Eastern region, RTEC(WR) for Western region and RTEC(SR) for Southern region, located at New Delhi, Kolkata, Mumbai and Bangalore respectively. The RTECs are responsible for testing of products, equipments and systems. Each of the RTEC is headed by a Dy. Director General. The coordination of activities of RTECs and issue of certificate is vested with Regional Coordination (RC) Unit at TEC New Delhi headed by a DDG.

1.1.4 MRA Group is responsible for designating domestic Conformance Assessment Bodies (CABs). It is also responsible for recognizing foreign CABs and Certification Bodies under Mutual Recognition Arrangement (MRA).

## **2. Types of specifications**

TEC issues following types of specifications:

### **2.1 Interface Requirement (IR)**

Interface Requirement of a telecom equipment issued by TEC implies a minimum set of requirements in respect of inter-operability, safety and security that the equipment should conform to in order to connect and operate in the Indian Telecom Network. It may also include certain features of the product/system to meet the above objective. Interface Requirement of a product/system is aimed to primarily ensure that the product:

- inter-works properly with the other products/networks of the Indian Telecom Network.
- meets the EMI/EMC standards as specified by TEC.
- meets the safety standards as specified by TEC.
- meets the minimum standard requirements for electrical interconnect/compatibility as specified by TEC.
- is compliant to the regulations of the Telecom Regulatory Authority of India and meets the requirements arising out of relevant orders/instructions of the Government .

## 2.2 Generic Requirement (GR)

Generic Requirement of telecom product refers to a set of requirements pertaining to performance and features besides Interface Requirement (IR) of the product.

## 2.3 Service Requirement (SR)

Service Requirement of a telecom service refers to a set of requirements/specifications issued by TEC pertaining to Roll-out obligations, Service quality etc. as prescribed by the Licensor in the relevant License.

## 3. Standard (SD)

A Standard (SD) refers to a set of standard/common requirements or specifications inter-alia, in respect of protocols, numbering, routing, switching, interfaces, safety, security, system etc. issued by TEC. It can be used either independently or can be referred to in Generic Requirements/Interface Requirements/Service Requirements of the telecom products/services.

TEC also adopts various international standards incorporating the needs of the Indian Telecom network wherever required. *For example: EMC/EMI standard and CCS7 standard.*

## 4. Types of certification

### 4.1 Type Approval

Type Approval is the process of testing and certification of telecom product, in accordance with Test Schedule & Test Procedure (TSTP) of TEC, for conformance with the Generic Requirement (GR) of the product issued by TEC.

### 4.2 Interface Approval

Interface Approval is the process of testing and certification of telecom product, in accordance with Test Schedule & Test Procedure (TSTP) of TEC, for conformance with the Interface Requirement (IR) of the product issued by TEC.

### 4.3 Certificate of Approval

Certificate of Approval(CoA) is the process of testing and certification of telecom product as per Manufacturer's specifications. This certificate is granted only when TEC does not have a Generic or Interface Requirement of the product. The testing

shall be conducted in accordance with the Test Schedule & Test Procedure (TSTP) approved by TEC.

*Note: A draft TSTP shall have to be submitted by the applicant of CoA. The concerned HQ group shall examine and approve a TSTP and also specify the product category for the purpose of fee.*

#### 4.4 Technology Approval

Technology Approval is a process of testing and certification of prototype of a telecom product developed by C-DoT. Technology Approval is given against the Generic Requirement (GR) issued by TEC for the product.

### 5. Eligibility criteria for applicants

The following are eligible to apply for Type Approval, Interface Approval and Certificate of Approval:

- (i) An Indian OEM who is manufacturing the product in India either itself or through contract manufacturing in part or in full under whose brand name the product is being sold or is proposed to be sold.
- (ii) An authorised Indian dealer/distributor/representative/channel partner/branch office of a foreign OEM which is authorized by the foreign OEM to trade as well as to apply to TEC for certification of the product manufactured outside India, herein after referred to as 'Trader'.

*Note: A manufacturer (Indian or foreign) who offers a solution by adding unit(s) from other Indian or foreign manufacturer(s) to its own unit(s) and the solution consists of more than one non-integrated units and the GR/IR permits the product to be offered in such a manner, such a manufacturer shall also be treated as an OEM, Indian as in para 5(i) or foreign for the purpose of para 5(ii), provided that for each such added unit this OEM should have separate authorised dealership/distributorship agreement/MoU document with the manufactures of the other units mentioning the period of validity. The applicant that is an Indian OEM or an Indian Trader of foreign OEM as the case may be is required to submit a copy of each of such authorised dealership/distributorship agreement/MoU document. However, in all such cases requiring authorized dealership/distributorship/channel partnership/MoU document the validity of the certificate if issued shall be as per clause 12 of this document.*



## 6. Jurisdiction for testing

6.1 The jurisdiction and contact details of RTECs for the purpose of testing are as follows:

<i>Address of Regional TEC</i>	<i>Jurisdiction</i>	<i>Contact</i>
<b>Dy. Director General (NR),</b> Regional Telecom Engineering Centre(North), Gate No. 5, Khurshid Lal Bhawan, Janpath, New Delhi-110001	Delhi, Rajasthan, Punjab, Haryana, Chandigarh, J&K, Himachal Pradesh, Uttarakhand and Uttar Pradesh	<a href="mailto:ddgnr.tec@gov.in">ddgnr.tec@gov.in</a> Tel : +91-11-23325118 FAX: +91-11-23358276
<b>Dy. Director General (ER)</b> Regional Telecom Engineering Centre (East), Q/A Bldg., EP&GP Block, Bidhan Nagar, Sector V, Kolkata-700091	West Bengal, Bihar, Jharkhand, Odisha, Assam, Tripura, Meghalaya, Sikkim, Arunachal Pradesh, Manipur, Mizoram, Nagaland, Andaman & Nicobar.	<a href="mailto:ddger.tec@gov.in">ddger.tec@gov.in</a> Tel : +91-33-23570003 FAX: +91-33-23570004
<b>Dy. Director General (WR),</b> Regional Telecom Engineering Centre (West), 2nd floor, D-Wing, BSNL Admin. Block, Juhu Danda Road, Santa Cruz (West), Mumbai-400054	Maharashtra, Gujarat, Daman and Diu, Madhya Pradesh & Chattisgarh, Dadara & Nagar Haveli and Goa	<a href="mailto:ddgwr.tec@gov.in">ddgwr.tec@gov.in</a> Tel : +91-22-26613215 FAX: +91-22-26610920
<b>Dy. Director General (SR)</b> Regional Telecom Engineering Centre(South), Jaya Nagar Telephone Exchange, 2nd Floor, 9th Main, 4 <sup>th</sup> Block, Jaya Nagar, Bangalore -560011	Karnataka, Kerala, Tamilnadu, Puducherry, Lakshadweep and Minicoy, Andhra Pradesh, Telangana, Mahe and Yanam.	<a href="mailto:ddgsr.tec@gov.in">ddgsr.tec@gov.in</a> Tel : +91-80-26646222 FAX: +91-80-26654111

6.2 In case of Type Approval, Interface Approval and Certificate of Approval, the applicant is required to apply to the respective Regional TEC (RTEC) within whose jurisdiction their manufacturing plant or Registered Office is located.

6.3 In case of Technology Approval the C-DOT is required to approach the HQ Group of TEC which has issued/is associated with the GR of the product.

## 7.0 Certification procedure

### 7.1 Type Approval, Interface Approval & Certificate of Approval

7.1.1 Applicant has to fill form 'A' as given in Annexure 'A' and submit it along with requisite documents to the RTEC concerned. The documents to be submitted are as follows:

#### *(A) In case the applicant is an Indian OEM*

- i. Copy of Industrial License, SSI registration, Copy of Certificate of Incorporation as applicable.
- ii. Quality Manual being followed for manufacturing.
- iii. In case the manufacturing is carried out through contract manufacturing, copy of Agreement/MoU between the applicant also called the principal manufacturer and the Contract manufacturer(s) who is/are actually manufacturing the product thereof. Further, a copy of the manufacturing license(s) of the Contract manufacturer(s) shall also be provided.
- iv. If the offered product is manufactured under Transfer of Technology (ToT) from C-DOT, copy of ToT agreement as well as the relevant Quality Manual of C-DoT.
- v. Documents as per (C) below.

#### *(B) In case the applicant is an Indian Trader of foreign manufactured equipment*

- i. Copy of Registration/Certificate of Incorporation of trader in India, as applicable.
- ii. Authorisation from the foreign OEM that the trader is authorised for applying to TEC/RTEC for getting Certification for the specific product.

- iii. Authorization by foreign OEM declaring the applicant as their authorised Indian trader/ dealer/ distributor/ representative/ Channel partner/ Branch office for the product clearly indicating the after sale support and the validity period.
- iv. RBI permission to open branch office by a foreign OEM, if the applicant is a Branch office.
- v. Documents as per (C) below.

*(C) In both (A) and (B) above the following documents are also required to be submitted:*

- i. Copy of the Income tax return filed by the applicant for the last financial year.
- ii. Copy of the Balance sheet of the applicant for the last financial year.
- iii. Authorization letter for the authorized signatory for signing form 'A'.
- iv. Import Export code as applicable to the product or part thereof.
- v. Specifications of the equipment containing features, facilities and physical description.
- vi. Installation/ System/ Operation & Maintenance/User manual of the equipment (preferably in CD/DVD). In case of ToT from C-DOT, the relevant manuals of C-DOT are acceptable.
- vii. An affidavit attested by notary public for each equipment/model as per proforma given in Annexure 'A'.
- viii. Clause-wise compliance and test results in-house or from any lab as per relevant Test Schedule & Test Procedure (TSTP) are required to be submitted. However, for EMI/EMC and Safety clauses, the test results from accredited labs along with copy of accreditation certificate and scope of accreditation of respective labs are required to be submitted.
- ix. Test results as per the draft Test Schedule & Test Procedure against Manufacturer's specifications as proposed by the applicant and carried out at any lab or in-house and at accredited labs in case of EMC/EMI and

safety related specifications, in case of application for Certificate of Approval.

- x. Documentary proof of carrying out modifications in the product to overcome the short comings communicated to the applicant in case of Resubmission of application.
- xi. Copy of earlier valid Certificate in case of Renewal or testing of additional optional interfaces of a product.
- xii. Copy of Technology Approval certificate issued by TEC to C-DOT in case of products which are manufactured under ToT from C-DOT.
- xiii. Any other document, if required as per GR/IR.

*Note:*

*(a) A manufacturer (Indian or foreign) who offers a solution by adding unit(s) from other Indian or foreign manufacturer(s) to its own unit(s) and the solution consists of more than one non-integrated units and the GR/IR permits the product to be offered in such a manner, such a manufacturer shall also be treated as an OEM, Indian as in para 5(i) or foreign for the purpose of para 5(ii), provided that for each such added unit this OEM should have separate authorised dealership/distributorship agreement/MoU document with the manufactures of the other units mentioning the period of validity. The applicant that is an Indian OEM or an Indian Trader of foreign OEM as the case may be is required to submit a copy of each of such authorised dealership/distributorship agreement/MoU document. However, in all such cases requiring authorized dealership/distributorship/channel partnership/MoU document the validity of the certificate if issued shall be as per clause 12 of this document.*

*(b) In respect of application for certification by Indian manufacturers for the product manufactured under MoU/ToT from the Original Equipment Manufacturer(OEM) which may be Foreign or Indian, the test results to be submitted along with the application form 'A' as a pre-requisite for registration of the case for certification, namely test results of accredited lab and in-house test results as required for the product model , the test results of the original product with model number of the OEM shall also be*

*acceptable if both the OEM and the applicant Indian manufacturer submit an affidavit ( undertaking in case of foreign OEM) that both the models are same in hardware, software, features and specifications, and the brand/logo of the product model of Indian manufacturer is same as that of the OEM(foreign or Indian).*

- (c) *EMC/EMI and Safety related test results as per relevant TSTP are not required in case of products which are manufactured under ToT from C-DOT consequent to Technology Approval of C-DOT model by TEC. But in-house test results for the applied model number as per relevant TSTP except for environment related clauses are required to be submitted in such cases by the applicant.*

7.1.2 The application submitted as above shall be scrutinized by the RTEC. If the application form and the documents are found satisfactory, the applicant shall be intimated to submit an undertaking as per Annexure 'A1' regarding proposal for location(s) of test lab/CAB/RTEC within a month from date of issue of the letter of intimation.

In case of preference given by the applicant for testing at a CAB the following checks shall be made by concerned RTEC before giving the approval of test location(s):

- (i) In case of application for Interface approval and Type Approval, the eligibility of the CAB for testing against respective IR/GR.
- (ii) In case of application for Certificate of Approval, RTEC shall verify the capability of the CAB to conduct the test as per the TSTP approved by the respective HQ group of TEC.

Consequent to the approval of test location(s) by RTEC, the applicant shall be intimated to deposit the applicable test fee/ administrative charge in the form of bank draft payable to A.O.(Cash) TEC payable at New Delhi or any other mode prescribed by TEC, along with dully filled-in form 'B' at respective RTEC within 15 days from issue of such intimation letter. This date can be extended by another 15 days on applicant's request.

In case of testing at CAB, no test fee is payable and only administrative charge as applicable is payable to TEC.

In case of testing by RTEC whether at RTEC or at any location other than RTEC / CAB, the test fee as applicable is payable to TEC and the testing shall be done by

RTEC. In case of test location other than RTEC/CAB, the test facilities/lab shall be arranged by the applicant at its own cost.

If the form 'B' and the test fee / administrative charge are found in order, RTEC shall register the application and allot a registration number on the form 'B'. One copy of the form 'B' with the registration number shall be returned to the applicant.

7.1.3 In case of testing by RTEC, the date of start of testing shall be intimated by RTEC to the applicant. If the applicant is not ready to start the test on the date fixed by RTEC for any reason, a request for extension of test date may be made to head of RTEC by the applicant before the date of start of test. The head of RTEC can give extension for maximum period of 30 days. If the tests could not be started or the tests could not be completed due to reasons attributable to the applicant, the application is liable to be closed by the RTEC.

7.1.4 In case of testing by CAB, the RTEC will register the case and intimate the applicant to get the testing done at the designated CAB(s) (as per clause 7.1.2 above) and submit the test results duly signed by representatives of the CAB and the applicant to RTEC concerned. In case the applicant fails to submit the test results within three months from the date of registration, RTEC may give an extension of one month on request by the applicant. In case the applicant fails to submit the test results from the CAB within the stipulated period, the application is liable to be closed.

#### 7.1.5 Force majeure

In case of an event of Force Majeure e.g. war, terrorist activity, earthquake, flood or any other natural or man-made calamity:

- (i) The applicant can seek extension of the last date of submission of form 'B' and the fee.
- (ii) Both the RTEC and the applicant have right to get the test postponed at any stage before the start of test as well as during the test.
- (iii) In case of testing by CAB the applicant have the right to get the submission of test results postponed.

(iv) The applicant invoking this clause has to submit to RTEC sufficient proof of occurrence of the event justifying the force majeure. If the applicant gives sufficient proof that the fee could not be submitted or the test could not be conducted, due to reasons attributed to Force Majeure, RTEC may extend the time of submission of fee or may extend the date of start/conduct of test/ the time of submission of test results in case of testing by CAB, by a reasonable time or refund the fee on applicant's request after deducting applicable withdrawal charges for such case.

#### 7. 1.6 Review of test results by RTEC and issue of certificate

- i) The test results shall be jointly signed by the officer(s) of RTEC/TEC involved in testing and the authorised representative of the applicant.
- ii) Activity Report & Draft Certificate (ARDC) as prescribed by the Regional Coordination Unit and the test report jointly signed by applicant's representative and Testing Officer of RTEC or CAB as applicable, shall be submitted to the head of RTEC for review and approval.
- iii) The approved ARDC shall be sent to Regional Coordination unit of TEC HQ and the certificate will be issued by Director(TA) TEC HQ or any other officer designated for the purpose. The Regional Coordination unit may seek any clarifications/corrections in the ARDC from the concerned RTEC.
- iv) The information regarding the certificate so issued shall be put on the TEC website.
- v) Procedure in (ii) and (iii) above, being office procedure can be changed by TEC at any time without prior notice.

#### 7.2 Technology approval

7.2.1 The C-DOT has to submit duly filled form 'T' as given in Annexure 'C' for the prototype of telecom product developed by it, along with following documents to the TEC HQ Group concerned:

- i) System specifications of the equipment containing features, facilities and physical description.
- ii) Installation, System and Operation & Maintenance manual of the equipment.
- iii) Hardware, Software and firmware details of the equipment.
- iv) Block schematic diagram and physical configuration of the equipment.
- v) Test results as per the Test Schedule & Test Procedure (TSTP) issued by TEC for the relevant GR
- vi) Test results against EMI/EMC clauses of the relevant GR from an accredited lab along with copy of valid accreditation certificate and scope of accreditation.
- vii) Test results against safety clauses of the relevant GR from an accredited lab along with copy of valid accreditation certificate and scope of accreditation.

7.2.2 The case will be processed by HQ Group concerned and if the product/technology found compliant to the respective GR the case shall be put up to Sr. DDG for approval.

## **8.0 Renewal of certificate**

8.1 Renewal of a certificate implies further certification without any break against the same specification that is IR/GR/manufacturer's specifications as in the existing certificate. The procedure for renewal of a certificate shall be as follows:

- (i) Application for renewal should be submitted before the expiry of the certificate but not earlier than one month before expiry of the certificate.
- (ii) If specification is revised/amended during the validity period of a certificate the application for renewal against the old specification shall be accepted only if the specification mentioned in the existing certificate



is valid on the date following the 'valid upto' date in the existing certificate.

- (iii) The applicant has to submit in the affidavit ( as available in Form A at Annexure A to this document) that there is no change in the hardware of the product.
- (iv) If there is any change in software version of the product at the time of submission of application for renewal of a certificate the applicant shall give a declaration that "TEC has been informed that despite this software version change the product is in compliance to the IR/GR/manufacturer's specification against which the product has been certified and that TEC has acknowledged the information ( Copy of information to TEC and acknowledgement of TEC as per para 12.3.2 to be attached with form A) ”.
- (v) If the criteria mentioned in subparas 8.1 |(i) to 8.1 (iv) mentioned above are fulfilled, no test needs to be conducted for renewal and documents like in-house test results, test results from accredited labs against EMC/EMI and safety clauses are not required.
- (vi) In case of renewal of a "Certificate of Approval (CoA), the criteria that "No GR/IR is issued for the product after the issue of the earlier CoA shall also be required to be fulfilled in addition to the sub-clauses (i) to (iv) above.

8.2 TEC reserves the right to conduct any or all the tests after recording the reasons thereof. Renewal, if issued, shall be valid for 5 years with effect from the date following the 'valid up to' date of the last certificate.

#### **9.0 Amendment in TSTP during first case of testing against any specification**

In the first case of testing and certification against new/revised IR/GR/TSTP during examination of the test results submitted by the applicant along with form-A or during the testing by RTEC if it is found that there is difficulty in testing certain specification(s) as per the TSTP due to the test setup provided in the TSTP or the

requisite test setup/facility not being available, the case shall be referred to concerned HQ group of TEC with the comments of RTEC. The HQ group on examination of the matter may recommend suitable amendment(s) to the TSTP. The amendment will be conveyed to all the RTECs through Regional Coordination unit at TEC HQ. Thereafter, the testing will be carried out against the revised TSTP. Amendment to the TSTP may also be carried out at a later date if the product in the first case did not cover all the requirements of the IR/GR either due to some specifications being optional or the TEC specification covers more than one product types/categories.

## **10.0 Withdrawal / Closure of application**

### **10.1 In case of testing by TEC:-**

10.1.1 If the application for certification is withdrawn by the applicant or is required to be closed by RTEC due to reasons attributable to the applicant, **before the prescribed date of start of test**, then RTEC shall close the case under intimation to the applicant. In such cases the fee is refundable, after deduction of applicable Closure Charge as in force. In such a case the fee is not adjustable against any other application by the applicant.

10.1.2 If the **testing could not be started on the prescribed date of start of test** or could not be completed as per clauses 7.1.3, due to reasons attributable to the applicant, then RTEC shall close the case under intimation to the applicant. In such cases the fee is refundable after deduction of Withdrawal/Closure Charge as in force. In such a case the fee is not adjustable against any other application by the applicant.

### **10.2 In case of testing by CAB**

10.2.1 If the applicant fails to submit the test results to RTEC within stipulated time as per clause 7.1.4, the case is liable to be closed by the RTEC under intimation to the applicant giving reasons of closure. In such a case the administrative charge is neither refundable nor adjustable against any other application by the applicant.

10.2.2 If any of the **test results submitted by the applicant is not compliant to the specification/TSTP against which the product is tested**, then RTEC shall close the case under intimation to the applicant giving reasons of closure. In such a case the

administrative charge is neither refundable nor adjustable against any other application by the applicant.

*Note: All the cases mentioned in para 10 above for withdrawal/closure shall result in automatic cancellation of form 'B'/registration.*

## **11.0 Resubmission of application**

If the application/case is closed by RTEC as per clauses 10.1.3 and 10.2.2, then fresh registration can be done by submitting the following:

- (i) Resubmission of duly filled form 'A'.
- (ii) Documentary proof of carrying out modifications in the product to overcome the shortcomings communicated to the applicant.
- (iii) Resubmission of applicable fee as per the procedure already prescribed.

## **12.0 Validity of certificate**

12.1 In general the certificate issued against a GR/IR/Manufacturer's specifications will be valid for a period of 5 years.

12.1.1 If the product consists of more than one non-integrated parts manufactured by different OEMs and the product has been accepted for testing as per provisions of Note (a) and (b) to clause 5 of this document, then the period of validity of the certificate shall be limited to the lowest period of validity of above said agreements/MoUs in case it is less than 5 years.

12.1.2 In case of trader authorised by a foreign OEM, the period of validity of the certificate shall be limited to the period of validity of the authorization / MoUs in case it is less than 5 years.

12.1.3 In case of Indian manufacturer manufacturing the product with ToT/MoU from the OEM/owner of technology, the period of validity of the certificate shall be limited to the period of validity of the ToT/MoU/agreement MoUs in case it is less than 5 years.

### **12.2 Extension of certificate**

In case of certificate with limited validity period as in clauses 12.1.1 to 12.1.3 the validity is extendable to full 5 years from the date of issue of the original certificate on request of the holder of the certificate along with the copy of the relevant extended

Agreement/MoU/Authorisation and an affidavit that there is no change in Hardware / software of the product. The extended certificate shall be against old specification only. The applicable administrative charges will be taken for such an extension of certificate.

### 12.3 Modifications in the certified product

12.3.1 The certificate issued by TEC shall not be valid for any hardware variant of the product. In such a case a fresh certificate shall be required.

12.3.2 If the software version of the product is changed as compared to the version mentioned in the certificate issued by TEC during its validity period, the certificate holder shall inform the certificate issuing authority in TEC about the change in the software version along with a declaration that “Despite this software version change the product is in compliance to the IR/GR/manufacture’s specification against which the product has been certified”. On submission of this information and declaration, TEC will issue an acknowledgement of the same with a copy to the concerned RTEC.

12.3.3 Any modification in the certified product in violation of 12.3.1 and 12.3.2 shall render the certificate invalid.

## 13.0 Formats for certificates

### 13.1 Interface Approval Certificate/Type Approval Certificate/Certificate of Approval

The format of certificates in these cases shall be as per Annexure D-1 to Annexure D-3 respectively. The terms and conditions of the certificate are mentioned on the back of the certificate.

Note:

- (i) If the product consists of more than one non-integrated parts and there is no single model number is assigned to the product then the Model numbers of each part forming the product shall be mentioned in the certificate.*
- (ii) TEC may incorporate conditions while issuing the certificate in view of Government orders and rules, if any, made under the Indian Telegraph Act, or any other relevant Act, from time to time.*

*(iii) TEC may amend the already issued certificate in view of Government orders and rules, if any, made under the Indian Telegraph Act, or any other relevant Act, from time to time.*

### **13.2 Technology Approval Certificate**

The format of the Technology Approval Certificate shall be as per annexure D-4.

Note: *(i) TEC may incorporate conditions while issuing the certificate in view of Government orders and rules, if any, made under the Indian Telegraph Act, or any other relevant Act, from time to time.*

*(ii) TEC may amend the already issued certificate in view of Government orders and rules, if any, made under the Indian Telegraph Act, or any other relevant Act, from time to time.*

### **14.0 Change of name / address of the applicant/OEM**

Request application for change of name/address of applicant / OEM may be made to concerned RTEC within two months of such a change along with following documents:

- (i) Duly notarized Affidavit on stamp paper of Rs. 50/- stating that the name/address of the applicant/OEM has changed giving new Name/Address and that there is no change in hardware, software, functions, features or interface(s) of the product.
- (ii) The certificate in original
- (iii) Documents containing proof of change in name and address.
- (iv) Modification fee in form of demand draft to A.O.(cash) TEC payable at New Delhi or any other mode prescribed by TEC.

The Modification fee as in force may be levied for incorporating modifications in already issued certificate and for issue of revised certificate, on the request of the applicant provided reasons of modification are not attributable to TEC.

The RTEC after scrutinizing the documents as above shall convey its approval along with revised draft certificate to the Regional Coordination unit in TEC HQ for issue of revised certificate. The validity of revised certificate shall remain same as that of earlier certificate.

In case the applicant informs about change in its Name/Address after Registration of Application and before the issue of certificate, no modification fee will be levied; however the applicant shall have to submit documents as above.

If it comes to the notice of TEC that holder of the certificate has failed to inform about change in Name/Address of the applicant/OEM within two months of such a change, TEC may temporarily suspend the corresponding certificate(s) till the revised certificate is issued.

#### **15.0 Change of address of manufacturing site**

Whenever there is change in address of the manufacturing site or the activity of manufacturing has been shifted to a contract manufacturer, the applicant shall intimate the RTEC regarding such a change along with address of the new manufacturing site, copy of agreement/Order with the Contract Manufacture as the case may be within two months. In this case no change in certificate is required.

In case the holder of the certificate/applicant fails to inform about change in Name/ address of the applicant/OEM/Manufacturing site, within two months of such a change, TEC may cancel the corresponding certificate(s) / temporarily suspended such certificate(s) till the revised certificate is issued on application for change of address of manufacturing site.

#### **16.0 Certification against GR when certificate against IR exists**

For products in respect of which TEC has issued a GR as well as an IR and an applicant is already holds a certificate against the IR and an application is submitted for Type Approval of the product, TEC need not conduct Interface Requirement related tests which are part of the GR, provided the said IR is still valid at the time of Application. The applicant would have to pay the fee as applicable for the product category.

#### **17.0 Certification against optional interfaces and features in GR/IR**

If there are optional interfaces/features as mentioned in GR/IR and a certificate is issued against test of selected optional interfaces/features (as applied by the applicant), any of all of the remaining optional interfaces/features can be applied for the same model subsequently if there is no change in Hardware/Software of the

product and there is no change in GR/IR (i.e. GR/IR number remains the same) within the validity period of the already issued certificate. If such an application for certification is made, the new certificate shall include all mandatory and optional interfaces/features that have been tested and shall supersede the earlier issued certificate. The certificate shall be valid till the validity period of the original issued certificate. If test is to be conducted by TEC, fee pertaining to additional optional interfaces shall be chargeable. If the test is to be conducted by CAB, administrative charge as applicable for the category shall be payable by the applicant to TEC alongwith form 'B'.

#### **18.0 Certification against GR/IR which is revised or amended**

18.1 If during the validity period of a certificate the relevant IR/GR is revised/amended, the holder of the certificate has an option to get the product certified against the amended / revised IR/GR ('valid upto' date remaining unchanged) provided:-

- (i) There is no change in Hardware or software since the issue of last certificate, which may affect compliance to any clause of the old IR/GR/TSTP.
- (ii) The applicant gets done the incremental tests against the same mandatory and optional interfaces as in the existing certificate conducted by RTEC. Association of concerned HQ Group of TEC is required in first such case after amendment/revision in IR/GR.
- (iii) The applicant deposits 10% of the fee for the product category for the same interfaces as in the existing certificate, the category being as per new IR/GR as fee for certification against amended/revised IR/GR .

18.2 For a product certified against an IR/GR and further certified against the amended IR/GR as per clause 18.1 above, a situation may arise when the IR/GR is revised (with new number) within the validity period of the certificate. In this case if the certificate holder applies for certification against the revised IR/GR, the same will be treated as a fresh case, no test shall normally be conducted and validity of the certificate shall remain same. In this case no test fee shall be payable, however, only the administrative charges as applicable shall be payable by the applicant.

## **19.0 Surveillance**

19.1 TEC reserves the right to inspect and/or test the product during validity period of the certificate at any time and at any premises including sites where it is in use or at the place of manufacturing. Such inspection and/or testing may arise either at discretion of TEC or due to any complaint received by TEC regarding use of the certified product. No test fee is chargeable in such cases. However, test facilities / lab shall have to be arranged by applicant to whom the certificate was issued at its own cost, if test facility is not available with TEC.

19.2 TEC reserves the right to suspend/cancel the certificate after giving notice during its validity period if:

- (i) the holder of the certificate does not observe the terms and conditions of the certificate.
- (ii) the holder of the certificate does not submit the equipment for retesting if requested by TEC or does not make retesting possible within a prescribed timeframe.
- (iii) the holder of the certificate makes any hardware/software change from the original equipment against which the certificate was issued in violation to clause 12.3 or that the declaration given therein is false.
- (iv) the holder of the certificate no longer exist or is not traceable.
- (v) it is found that the applicant to whom the certificate is issued is not having suitable repair and servicing facilities.

19.3 If the holder of the certificate is a trader, it shall be responsible for violation indicated in 19.2 by the OEM.

19.4 TEC reserves the right to advertise the suspension/cancellation through any suitable medium.

## **20. Disclaimer**

This procedure is subject to modifications/amendments from time to time without any prior notice.



## GLOSSARY OF TERMS USED

### **APPLICANT**

Any Indian manufacturer or authorised trader/ dealer / channel partner of a foreign OEM or branch office of a foreign OEM who applies for certification of a telecom product

Any organization having ownership of a Technology of Telecom product through its own R&D who applies for Technology approval.

### **ACCREDITED LABORATORY**

A testing laboratory accredited for conducting specified tests by a national Accreditation Body in any country or an international accreditation body.

### **AMENDED GR/IR**

A GR/IR which is amended by TEC without a new GR/IR Number.

### **CAB**

Conformance Assessment Body is a test laboratory designated by TEC for testing of telecom products against specified GR/IR.

### **C-DOT**

The term is used for the Centre for Development of Telematics which is the Telecom Technology development centre of the Department of Telecommunication, Government of India.

### **CERTIFICATE OF APPROVAL**

Certificate of Approval is a process of testing and certification of telecom equipment as per Manufacturer's specifications.

### **DOT**

The term implies any appropriate authority of the Department of Telecommunications, Government of India.

### **EMI/EMC**

Electromagnetic Interference/ Electromagnetic Compatibility

### **FIPB**

Foreign Investment Promotion Board is a wing of Ministry of Commerce, Government of India.

## **GENERIC REQUIREMENT (GR)**

Generic Requirement of a telecom equipment issued by TEC implies a set of generic requirements pertaining to performance, features, quality etc. besides Interface Requirement (IR) of the equipment.

## **HQ Group**

Head Quarter Groups are groups in TEC HQ, each entrusted in general with certain segments of telecom technologies.

## **INTERFACE REQUIREMENT (IR)**

Interface Requirement of telecom equipment implies a minimum set of requirements issued by TEC primarily in respect of inter-operability, safety and security that the equipment should conform to in order to connect and operate in the Indian Telecom Network.

## **INTERFACE APPROVAL**

Interface Approval is a process of testing and certification of telecom equipment, in accordance with Test Schedule & Test Procedure (TSTP) issued by TEC, for conformance with the Interface Requirement (IR).

## **LICENSED SERVICE PROVIDER**

Any Organization licensed by DoT to provide a public telecom service.

## **OEM**

The term OEM implies an Original Equipment Manufacturer which means a manufacturer of telegraph/telecom equipment or a person/firm/company under whose brand the telegraph/telecom equipment is sold or proposed to be sold.

## **MRA**

Mutual Recognition Arrangement by which two countries give recognition to Certifying Bodies and CABs in respective countries.

## **PRINCIPAL MANUFACTURER**

The manufacturer whose registered address is mentioned against 'Manufacturer' in Form 'A' and the product bear the model number owned by it but the manufacturing of the product is done through a contract agreement.

## **PRODUCT SPECIFICATION**

Product Specification defines the full technical details of a particular model of product along with its features and functions. A number of products with diverse product specs, and technology could comply with the same IR/GR.

**REVISED GR/IR**

A GR/IR which is revised by TEC with a new GR/IR Number.

**RTEC**

Regional Telecom Engineering Centre is branch office of TEC responsible for testing of telecom equipments generally in its jurisdiction.

**RBI**

Reserve Bank of India

**RENEWAL**

Renewal of an existing certificate implies extending its validity for next term.

**STANDARD (SD)**

A Standard (SD) refers to a set of standard/common requirements or specifications inter-alia, in respect of protocols, numbering, routing, switching, interfaces, safety, security, system etc. issued by TEC. It can be used either independently or can be referred to in Generic Requirements/Interface Requirements/Service Requirements of the telecom products/services.

**SERVICE REQUIREMENT (SR)**

Service Requirement for the purpose of this document implies to a set of requirements/ specifications issued by TEC pertaining to Roll-out obligations, Service quality etc. as prescribed by the Licensor in the relevant License.

**TEC**

TEC means Telecom Engineering Centre under the Department of Telecommunications.

**TRADER**

The term implies a trader/dealer/channel partner/ branch office of a foreign OEM.

**TSTP**

Test Schedule and Test Procedure is a document issued by TEC to carry testing of telecom equipment against IR/GR/manufacturer's specifications.

**TYPE APPROVAL**

Type Approval is a process of testing and certification of telecom product, in accordance with Test Schedule & Test Procedure (TSTP) of TEC, for conformance with the Generic Requirement (GR) of the product issued by TEC.

## **TECHNOLOGY APPROVAL**

Technology Approval is a process of testing and certification of prototype of a telecom product developed by C-DoT. Technology Approval is given against the Generic Requirement (GR) issued by TEC for the product.

DEPARTMENT OF TELECOMMUNICATIONS  
TELECOMMUNICATION ENGINEERING CENTRE

FORM A

RTEC <Delhi/Kolkata/Mumbai/Bangalore>

*Application for Product Certification*

A. Details of the applicant

Registered Name & Address: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

Mobile: \_\_\_\_\_ e-mail: \_\_\_\_\_ website: \_\_\_\_\_

Address for correspondence: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

Mobile: \_\_\_\_\_ e-mail: \_\_\_\_\_ website: \_\_\_\_\_

B. Details of the Product to be certified:

Product Name: \_\_\_\_\_

Model No.: \_\_\_\_\_

Year of manufacture: \_\_\_\_\_

Registered Name & Address of the Manufacturer/OEM: \_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

Mobile: \_\_\_\_\_ e-mail: \_\_\_\_\_ website: \_\_\_\_\_

C. Please tick (✓) the type of certificate required:

Type Approval:

Interface Approval:

Certificate of Approval:

D. Specification No. against which the certification is sought: < TEC GR/IR No./Attached\* >

Title of the TEC specification\*: \_\_\_\_\_

( \* In case of application for Certificate of Approval, Manufacturer's specifications and draft TSTP proposed by the applicant should be attached)

E. Please tick (✓) whether the application is for:

- (i) New certificate
- (ii) Renewal of certificate
- (iii) Additional Optional Interfaces of a TEC certified product
- (iv) Certification against amended/revised IR/GR of existing certificate
- (v) Resubmission

F. List of optional interfaces/features along with clause No., if any, offered for test in addition to the mandatory interfaces/features as per GR/IR:

- (i) \_\_\_\_\_ (iii) \_\_\_\_\_
- (ii) \_\_\_\_\_ (iv) \_\_\_\_\_

*(Attach separate sheet if required)*

G. Details of the manufacturing location:

Registered Name & Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

Mobile: \_\_\_\_\_ e-mail: \_\_\_\_\_ website: \_\_\_\_\_

H. Details of the contract manufacturer in case of contract manufacturing in part or full:

Whether manufacturing in Part or full: \_\_\_\_\_

Registered Name & Address of the contract manufacturer: \_\_\_\_\_

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Telephone:\_\_\_\_\_FAX:\_\_\_\_\_

Mobile:\_\_\_\_\_ e-mail:\_\_\_\_\_ website:\_\_\_\_\_

Address of the manufacturing location:\_\_\_\_\_

---

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Telephone:\_\_\_\_\_FAX:\_\_\_\_\_

Mobile:\_\_\_\_\_ e-mail:\_\_\_\_\_ website:\_\_\_\_\_

*(Please attach separate sheet in case of more contract manufacturers)*

**List of documents to be attached:**

*(A) In case the applicant is an Indian manufacturer*

- i. Copy of Industrial License, SSI registration, Copy of Certificate of Incorporation as applicable.
- ii. Quality Manual being followed for manufacturing.
- iii. In case the manufacturing is carried out through contract manufacturing, copy of Agreement/MoU between the applicant also called the principal manufacturer and the Contract manufacturer(s) who is/are actually manufacturing the product thereof. Further, a copy of the manufacturing license(s) of the Contract manufacturer(s) shall also be provided.
- iv. If the offered product is manufactured under Transfer of Technology (ToT) from C-DOT, copy of ToT agreement as well as the relevant Quality Manual of C-DOT.
- v. Documents as per (C) below.

*(B) In case the applicant is a Trader of foreign manufactured equipment*

- i. Copy of Registration/Certificate of Incorporation of trader in India, as applicable.

- ii. Authorization by foreign OEM declaring the applicant as their authorised Indian trader/ dealer/ distributor/ representative/ Channel partner/ Branch office for the product Authorization by foreign OEM declaring the applicant as their authorised Indian trader/ dealer/ distributor/ representative/ Channel partner/ Branch office for the product clearly indicating the after sale support and the validity period..
- iii. Authorisation from the foreign OEM that the trader is authorised for applying to TEC/RTEC for getting Certification for the specific product.
- iv. RBI permission to open branch office by a foreign OEM, if the applicant is a Branch office.
- v. Documents as per (C) below.

*(C) In both (A) and (B) above the following documents are also required to be submitted:*

- i. Copy of the Income tax return filed by the applicant for the last financial year.
- ii. Copy of the Balance sheet of the applicant for the last financial year.
- iii. Authorization letter for the authorized signatory for signing form 'A'.
- iv. Import Export code as applicable to the product or part thereof.
- v. Specifications of the equipment containing features, facilities and physical description.
- vi. Installation/ System/ Operation & Maintenance/User manual of the equipment (preferably in CD/DVD). In case of ToT from C-DOT, the relevant manuals of C-DOT are acceptable.
- vii. An affidavit attested by notary public for each equipment/model as per proforma given in Annexure 'A'.
- viii. Clause-wise compliance and test results in-house or from any lab as per relevant Test Schedule & Test Procedure (TSTP) are required to be submitted. However, for EMI/EMC and Safety clauses, the test results from



- accredited labs along with copy of accreditation certificate and scope of accreditation of respective labs are required to be submitted.
- ix. Test results as per the draft Test Schedule & Test Procedure against Manufacturer's specifications as proposed by the applicant and carried out at any lab or in-house and at accredited labs in case of EMC/EMI and safety related specifications, in case of application for Certificate of Approval.
  - x. Documentary proof of carrying out modifications in the product to overcome the short comings communicated to the applicant in case of Resubmission of application.
  - xi. Copy of earlier valid Certificate in case of Renewal or testing of additional optional interfaces of a product.
  - xii. Copy of Technology Approval certificate issued by TEC to C-DOT in case of products which are manufactured under ToT from C-DOT.
  - xiii. Any other document, if required as per GR/IR.

*Note:*

*(a) A manufacturer (Indian or foreign) who offers a solution by adding unit(s) from other Indian or foreign manufacturer(s) to its own unit(s) and the solution consists of more than one non-integrated units and the GR/IR permits the product to be offered in such a manner, such a manufacturer shall also be treated as an OEM, Indian as in para 5(i) or foreign for the purpose of para 5(ii), provided that for each such added unit this OEM should have separate authorised dealership/distributorship agreement/MoU document with the manufactures of the other units mentioning the period of validity. The applicant that is an Indian OEM or an Indian Trader of foreign OEM as the case may be is required to submit a copy of each of such authorised dealership/distributorship agreement/MoU document. However, in all such cases requiring authorized dealership/ distributorship/channel partnership/MoU document the validity of the certificate if issued shall be as per clause 12 of this document.*

*(b) In respect of application for certification by Indian manufacturers for the product manufactured under MoU/ToT from the Original Equipment*

*Manufacturer(OEM) which may be Foreign or Indian, the test results to be submitted along with the application form 'A' as a pre-requisite for registration of the case for certification, namely test results of accredited lab and in-house test results as required for the product model , the test results of the original product with model number of the OEM shall also be acceptable if both the OEM and the applicant Indian manufacturer submit an affidavit ( undertaking in case of foreign OEM) that both the models are same in hardware, software, features and specifications, and the brand/logo of the product model of Indian manufacturer is same as that of the OEM(foreign or Indian).*

*(c) EMC/EMI and Safety related test results as per relevant TSTP are not required in case of products which are manufactured under ToT from C-DOT consequent to Technology Approval of C-DOT model by TEC. But in-house test results for the applied model number as per relevant TSTP except for environment related clauses are required to be submitted in such cases by the applicant.*

I (name) \_\_\_\_\_ designation \_\_\_\_\_ certify that the above stated information is correct, complete and truly stated. Each page of the submitted documents (except that in form of CD/DVD as per para vi above) bears my initials along with stamp of the company.

Dated:

Signature of the authorized signatory

Place: \_\_\_\_\_

---

***To be filled by TEC***

Received the application form.

OFFICE STAMP

TEC Ack No: \_\_\_\_\_

Signature of Receiving officer:

Date:

Name & designation:

**SPECIMEN AFFIDAVIT**

*(To be submitted along with Form 'A')*

To be submitted on non judicial stamp paper of Rs 100 and duly attested by a first class Magistrate, Oath Commissioner or by a Notary Public.

**AFFIDAVIT**

**[Strike off/delete whichever is not applicable]**

I \_\_\_\_\_ son/daughter of \_\_\_\_\_ resident of \_\_\_\_\_ do solemnly declare and affirm as follows.

1. That I am the sole Owner/Proprietor of the firm/company < name of the firm/company > having its headquarter at < registered address of the firm/company >.

**OR**

That I am authorised to sign this affidavit and apply to TEC for certification on behalf of the firm/company < name of the firm/company > having its headquarter at < registered address of the firm/company >

2. That the firm/company is manufacturing the < name of the product > with < Model No. \* > at its own manufacturing plant / through contract manufacturing in part / full at < address of the manufacturing site > and we have test and repair facility for this product at < name and address of the facility >.

**OR**

That the firm/company is an authorized Indian dealer/distributor/channel partner/ representative/branch office of the foreign OEM < name and address >

of the foreign OEM of the product>\_\_\_\_\_for manufacturing the <name of the product> \_\_\_\_\_ with <Model No. \*>\_\_\_\_\_ at \_\_\_\_\_< address of the manufacturing site>\_\_\_\_\_ and we have test and repair facility for this product at < name and address of the facility>\_\_\_\_\_.

*\* In case the product consists of more than one non-integrated units the model numbers of individual units are as below:*

<b>S. No.</b>	<b>Unit Name:</b>	<b>Model No.</b>
<i>i</i>		
<i>ii</i>		
<i>iii</i>		
.....		

3. [In case of Indian Trader] That we affirm and declare that the import of the product as described at serial 2 above has been done within the framework of rules of Government of India as prescribed in its Export and Import policy or any other law, rule or notification in force.

**OR**

[In case of Indian OEM] That we affirm and declare that the import of various parts of the product which have been imported has been done within the framework of rules of Government of India as prescribed in its Export and Import policy or any other law, rule or notification in force.

4. [In case of Renewal/Revision of certificate or testing of Additional Optional Interfaces of a certified product] That there is no change in the hardware of the product as compared to the model tested and certified by TEC vide existing certificate No. \_\_\_\_\_ dated \_\_\_\_\_.
5. In case of Renewal/Revision of certificate a testing of additional optional interfaces of a certified product, we affirm that “software version has changed

from \_\_\_\_ to \_\_\_\_\_ and TEC has been informed that despite other software version change, the product is in compliance to the IR/GR/Manufacturer's Specification against which the product has been certified and that acknowledgement of TEC in this regard is attached herewith". (Note:- This clause is applicable only if there is a change in software version.)

6. [In case of Transfer of Technology from C-DOT] That the offered product is exactly same in hardware and software as compared to the model for which technology approval was given by TEC to C-DOT.
7. We affirm and declare that we indemnify TEC/DoT from any dispute, litigation, obligation and/or loss/damage etc. arising out of TOT/ use of technology, brand or model of the product mentioned above and we shall be solely responsible for any such eventuality.

[DEPONENT]

#### VERIFICATION

Verified \_\_\_\_\_ day of \_\_\_\_\_ year 20\_\_ that the contents of above affidavit are true to the best of my knowledge and belief and nothing untrue has been stated nor any facts has been concealed.

[DEPONENT]

Witnesses

1. < Signature > ( <Name> & Address)
2. < Signature > ( <Name> & Address)

UNDERTAKING

(On letter head of the applicant)

To

<RTEC NR/ER/WR/SR>

\_\_\_<Address>\_\_\_\_\_

We have applied for certification of \_<name of the product>\_\_\_\_\_ against IR/GR No. \_\_\_\_\_. With reference to your letter No. \_\_\_\_\_ dated \_\_\_\_\_, we M/s \_\_\_\_\_ do solemnly declare and affirm as follows:

A. That the testing is proposed to be carried at :

**[Strike off/delete whichever is not applicable]**

(i) RTEC Delhi/Mumbai/Kolkata/Bangalore

**OR**

(ii) CAB < Name & Address of the CAB>\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

**OR**

(iii) Name & Address of the lab/facility:\_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

B. That the following test instruments as per Test Schedule and Test Procedure No. \_\_\_\_\_ are available with valid calibration certificates at the above said test lab (*Not required in case of RTEC/CAB*).

S.No.	Name of Instrument	Model No.	Validity period of Calibration certificate
1			
2			
3			
...			
...			

C. That the following facilities as per Test Schedule and Test Procedure No. \_\_\_\_\_ are also available at the above said test location(s):

*(Not required in case of RTEC Lab/CAB)*

S.No.	Facility/Item (For example, test jig, Various Interfaces, Direct Exchange Line, mobile phone, SIM etc.)
1	
2	
...	

[Signature with stamp of the applicant/Authorised Signatory]

**DEPARTMENT OF TELECOMMUNICATIONS  
TELECOMMUNICATION ENGINEERING CENTRE**

**RTEC <Delhi/Kolkata/Mumbai/Bangalore>**

FORM B
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*(To be filled in duplicate)*

A. Name, address & contact details of the applicant:

Name: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_

Mobile: \_\_\_\_\_ e-mail: \_\_\_\_\_ website: \_\_\_\_\_

B. Name of the product (as per specification): \_\_\_\_\_

\_\_\_\_\_

C. TEC letter No & Date for submission of form B: \_\_\_\_\_

\_\_\_\_\_

D. Type of certificate required(as per form 'A'): \_\_\_\_\_

E. Please tick (✓) whether the application is for(as mentioned in form 'A'):

- |  |                          |
|--|--------------------------|
| (i) New certificate  | <input type="checkbox"/> |
| (ii) Renewal of certificate  | <input type="checkbox"/> |
| (iii) Additional optional interfaces of a TEC certified product          | <input type="checkbox"/> |
| (iv) Certification against amended/revised IR/GR of existing certificate | <input type="checkbox"/> |
| (v) Resubmission   | <input type="checkbox"/> |

F. Proposal for test location(s) ( Please tick ✓ ) :-

***Location***

***Address***

1. RTEC     <Delhi/Kolkata/Mumbai/Bangalore> \_\_\_\_\_

2. CAB      <Name & Address of the CAB> \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

3. Other location(s)  Address> \_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

The required test sample(s) with Model No. \_\_\_\_\_  
and Serial No. \_\_\_\_\_ shall be presented at the test  
location(s) before the prescribed date of start of test.

G. Fee remittance details:

Demand Draft No. \_\_\_\_\_ Dated:

Bank name:

Amount (Rs.):

(in figures)

(in words)

Signature of the applicant/Authorised signatory

\_\_\_\_\_

***To be filled by TEC***

Application Registration No: \_\_\_\_\_

Signature of receiving officer: \_\_\_\_\_

OFFICE STAMP

Date: \_\_\_\_\_

Name & designation:

***(Note: Second copy to be issued to applicant after recording the acknowledgement  
Number)***

DEPARTMENT OF TELECOMMUNICATIONS  
TELECOMMUNICATION ENGINEERING CENTRE

FORM T

Application for Technology Approval

*(To be submitted in duplicate by C-DOT to the concerned HQ Group of  
TEC New Delhi)*

A. Details of the applicant:

Name.....Designation.....

Address.....

.....

Telephone : .....Mobile:.....FAX.....

e-mail:\_\_\_\_\_website:\_\_\_\_\_

B. Product Details :

Name:\_\_\_\_\_Model No.\_\_\_\_\_

Typical application:\_\_\_\_\_

C. TEC GR No. against which technology approval is sought\_\_\_\_\_

D. List of documents to be attached:

- (i) System specifications of the equipment containing features, facilities and physical description.
- (ii) Installation, System and Operation & Maintenance manual of the equipment.
- (iii) Hardware, Software and firmware details of the equipment.

(iv) Block schematic diagram and physical configuration of the equipment.

Dated:

Place

Authorized signatory

---

*To be filled by concerned HQ Group of TEC*

Name of the HQ Group: \_\_\_\_\_

Received the application form: \_\_\_\_\_

HQ Group File No. and date: \_\_\_\_\_

OFFICE STAMP

Signature of the Receiving officer: \_\_\_\_\_

Date: \_\_\_\_\_

Name & Designation: \_\_\_\_\_

*(Note: Second copy to be issued to C-DOT after recording the acknowledgement Number)*

## FORMATS OF CERTIFICATES

There will be 5 types of certificates as per Annexure [D-1 to D-4]

D-1 (Light Blue) is format for Interface Approval Certificate

D-2 (Light Green) is format for Type Approval Certificate

D-3 (Light Yellow) is format for Certificate of Approval

D-4 (Light Pink) is format for Technology Approval Certificate

Government of India  
Department of Telecommunications  
Telecommunication Engineering  
Centre



भारत सरकार  
दूरसंचार विभाग  
दूरसंचार अभियांत्रिकी केंद्र  
खुशीदलाल भवन, जनपथ, नई दिल्ली-  
110001

Khurshid Lal Bhavan, Janpath, New Delhi-110001

## INTERFACE APPROVAL CERTIFICATE

No.: \_\_\_\_\_

Date: <dd.mm.yyyy>

This is to certify that the product described below conforms to the TEC specification indicated below. This certificate is issued subject to the terms and conditions given overleaf.

APPLICANT

(Name and Address)

TEC SPECIFICATION No.

(IR No. along with Amendment No. and date , if any)

PRODUCT NAME

(As per IR)

MODEL No.

Original Equipment Manufacturer

(Registered Name and Address)

SOFTWARE VERSION

(If any)

VALID UP TO

REMARKS:

(As per requirement of the IR)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. ....
- .....
4. Number and Date of last certificate\*: \_\_\_\_\_
5. Effective date of this certificate\*: <dd.mm.yyyy>

Note: \* To be mentioned in case of revision/renewal of Certificate

(NAME)  
DIRECTOR(TA)  
e-mail: [dirta.tec@gov.in](mailto:dirta.tec@gov.in)  
TEC website: [www.tec@gov.in](http://www.tec@gov.in)

No. : \_\_\_\_\_

Date: <dd.mm.yyyy>

### TERMS & CONDITIONS

- i) This certificate merely indicates conformance to the specifications mentioned herein and the actual use of the product is subject to the applicable rules and regulations.
- ii) This certificate does not cover any functions or features beyond the scope of the TEC specification mentioned herein, nor the performance of the equipment in different environment conditions.
- iii) This certificate issued by TEC shall not be valid for any hardware variant of the product. Any hardware variant of the product shall be treated as a different model for which a fresh certificate shall be required.
- iv) The software version mentioned in this certificate was the version declared by the certificate holder at the time of testing of the product. Any change in the software version of the product has to be brought to the notice of TEC along with a declaration as per the prescribed procedure to avoid cancellation of the certificate. TEC will issue an acknowledgement of receipt of such declaration.
- v) During the validity of this certificate, TEC reserves the right to inspect and/or test the product/equipment at any premises where it is in use or at the place of the manufacturer. If any adverse effect/deterioration in the performance of the approved product/equipment or interconnected system is noticed during inspection and/or testing or its use in Indian telecom network, TEC reserves the right to cancel/suspend the certificate.
- vi) For radio communication equipment, the operating frequencies shall comply with the approved frequencies by Wireless Planning and Co-ordination (WPC) wing of Department of Telecommunications. Possession, use, sale and operation of the wireless product is subject to applicable permissions/licenses.
- vii) This certificate should not be construed to be an authorization for trading or manufacturing activities which may be subject to applicable laws/rules/regulations.
- viii) TEC may amend/suspend/cancel this certificate in view of Government orders and rules or any anomaly noted by TEC/RTEC.
- ix) Application for renewal of this certificate as per certification procedure of TEC should be submitted before the expiry of the certificate but not earlier than one month before expiry of the certificate.

Tested by: RTEC \_\_\_\_\_ / CAB<Name & Address>\_\_\_\_\_

(NAME)

DIRECTOR (TA)

To

<APPLICANT'S ADDRESS>

**2/2**

Government of India  
Department of Telecommunications  
Telecommunication Engineering  
Centre



भारत सरकार  
दूरसंचार विभाग  
दूरसंचार अभियांत्रिकी केंद्र  
खुशीदलाल भवन, जनपथ, नई दिल्ली-  
110001

Khurshid Lal Bhavan, Janpath, New Delhi-110001

## TYPE APPROVAL CERTIFICATE

No.: \_\_\_\_\_

Date: <dd.mm.yyyy>

This is to certify that the product described below conforms to the TEC specification indicated below. This certificate is issued subject to the terms and conditions given overleaf.

APPLICANT

(Name and Address)

TEC SPECIFICATION No.

(GR No. along with Amendment No. and date , if any)

PRODUCT NAME

(As per GR)

MODEL No.

Original Equipment Manufacturer

(Registered Name and Address)

SOFTWARE VERSION

(If any)

VALID UP TO

REMARKS:

(As per requirement of the GR)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. ....
- .....
4. Number and Date of last certificate\*: \_\_\_\_\_
5. Effective date of this certificate\*: <dd.mm.yyyy>

Note: \* To be mentioned in case of revision/renewal of Certificate

(NAME)

DIRECTOR(TA)

e-mail: [dirta.tec@gov.in](mailto:dirta.tec@gov.in)

TEC website: [www.tec@gov.in](http://www.tec@gov.in)

1/2

No. : \_\_\_\_\_

Date: <dd.mm.yyyy>

### TERMS & CONDITIONS

- i) This certificate merely indicates conformance to the specifications mentioned herein and the actual use of the product is subject to the applicable rules and regulations.
- ii) This certificate does not cover any functions or features beyond the scope of the TEC specification mentioned herein, nor the performance of the equipment in different environment conditions.
- iii) This certificate issued by TEC shall not be valid for any hardware variant of the product. Any hardware variant of the product shall be treated as a different model for which a fresh certificate shall be required.
- iv) The software version mentioned in this certificate was the version declared by the certificate holder at the time of testing of the product. Any change in the software version of the product has to be brought to the notice of TEC along with a declaration as per the prescribed procedure to avoid cancellation of the certificate. TEC will issue an acknowledgement of receipt of such declaration.
- v) During the validity of this certificate, TEC reserves the right to inspect and/or test the product/equipment at any premises where it is in use or at the place of the manufacturer. If any adverse effect/deterioration in the performance of the approved product/equipment or interconnected system is noticed during inspection and/or testing or its use in Indian telecom network, TEC reserves the right to cancel/suspend the certificate.
- vi) For radio communication equipment, the operating frequencies shall comply with the approved frequencies by Wireless Planning and Co-ordination (WPC) wing of Department of Telecommunications. Possession, use, sale and operation of the wireless product is subject to applicable permissions/licenses.
- vii) This certificate should not be construed to be an authorization for trading or manufacturing activities which may be subject to applicable laws/rules/regulations.
- viii) TEC may amend/suspend/cancel this certificate in view of Government orders and rules or any anomaly noted by TEC/RTEC.
- ix) Application for renewal of this certificate as per certification procedure of TEC should be submitted before the expiry of the certificate but not earlier than one month before expiry of the certificate.

Tested by: RTEC \_\_\_\_\_ / CAB<Name & Address>\_\_\_\_\_

(NAME)

DIRECTOR (TA)

To

<APPLICANT'S ADDRESS>

**2/2**



Government of India  
Department of Telecommunications  
Telecommunication Engineering  
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भारत सरकार  
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दूरसंचार अभियांत्रिकी केंद्र  
खुशीदलाल भवन, जनपथ, नई दिल्ली-  
110001

Khurshid Lal Bhavan, Janpath, New Delhi-110001

## CERTIFICATE OF APPROVAL

No.: \_\_\_\_\_

Date: <dd.mm.yyyy>

This is to certify that the product described below conforms to the TEC specification indicated below. This certificate is issued subject to the terms and conditions given overleaf.

APPLICANT  
(Name and Address)

MANUFACTURER'S SPECIFICATIONS  
As per Annexure

PRODUCT NAME

MODEL No.

Original Equipment Manufacturer  
(Registered Name and Address)

SOFTWARE VERSION  
(If any)

VALID UP TO

### REMARKS:

(As per requirement of the specifications)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. ....
- .....
4. Number and Date of last certificate\*: \_\_\_\_\_
5. Effective date of this certificate\*: <dd.mm.yyyy>

*Note: \* To be mentioned in case of revision/renewal of Certificate*

Enclosure: Manufacturer's Specifications

(NAME)  
DIRECTOR(TA)  
e-mail: [dirta.tec@gov.in](mailto:dirta.tec@gov.in)  
TEC website: [www.tec@gov.in](http://www.tec@gov.in)

No. : \_\_\_\_\_

Date: <dd.mm.yyyy>

### TERMS & CONDITIONS

- i) This certificate merely indicates conformance to the specifications mentioned herein and the actual use of the product is subject to the applicable rules and regulations.
- ii) This certificate does not cover any functions or features beyond the scope of the TEC specification mentioned herein, nor the performance of the equipment in different environment conditions.
- iii) This certificate issued by TEC shall not be valid for any hardware variant of the product. Any hardware variant of the product shall be treated as a different model for which a fresh certificate shall be required.
- iv) The software version mentioned in this certificate was the version declared by the certificate holder at the time of testing of the product. Any change in the software version of the product has to be brought to the notice of TEC along with a declaration as per the prescribed procedure to avoid cancellation of the certificate. TEC will issue an acknowledgement of receipt of such declaration.
- v) During the validity of this certificate, TEC reserves the right to inspect and/or test the product/equipment at any premises where it is in use or at the place of the manufacturer. If any adverse effect/deterioration in the performance of the approved product/equipment or interconnected system is noticed during inspection and/or testing or its use in Indian telecom network, TEC reserves the right to cancel/suspend the certificate.
- vi) For radio communication equipment, the operating frequencies shall comply with the approved frequencies by Wireless Planning and Co-ordination (WPC) wing of Department of Telecommunications. Possession, use, sale and operation of the wireless product is subject to applicable permissions/licenses.
- vii) This certificate should not be construed to be an authorization for trading or manufacturing activities which may be subject to applicable laws/rules/regulations.
- viii) TEC may amend/suspend/cancel this certificate in view of Government orders and rules or any anomaly noted by TEC/RTEC.
- ix) Application for renewal of this certificate as per certification procedure of TEC should be submitted before the expiry of the certificate but not earlier than one month before expiry of the certificate.

**Tested by:** RTEC \_\_\_\_\_ / CAB<Name & Address>\_\_\_\_\_

(NAME)

DIRECTOR (TA)

To

<APPLICANT'S ADDRESS>

*2/2*

Government of India  
Department of Telecommunications  
Telecommunication Engineering  
Centre



भारत सरकार  
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दूरसंचार अभियांत्रिकी केंद्र  
खुशीदलाल भवन, जनपथ, नई दिल्ली-  
110001

Khurshid Lal Bhavan, Janpath, New Delhi-110001

## TECHNOLOGY APPROVAL CERTIFICATE

No.....

Dated: <dd.mm.yyyy>

This is to certify that the product described below conforms to the TEC specification indicated below. This certificate is issued subject to the terms and conditions given overleaf.

APPLICANT

(Name and Address)

TEC SPECIFICATION No.

(GR No. along with Amendment No. and date , if any)

PRODUCT NAME

(As per GR)

MODEL No.

(If any)

SOFTWARE VERSION

REMARKS:

(As per requirement of the GR)

1. \_\_\_\_\_
2. \_\_\_\_\_
3. ....
- .....
4. Number and Date of last certificate\*: \_\_\_\_\_
5. Effective date of this certificate\*: <dd.mm.yyyy>

[Note: \* To be mentioned in case of revision/renewal of Certificate.]

(NAME)  
Director (TA)  
e-mail: [dirta.tec@gov.in](mailto:dirta.tec@gov.in)  
TEC website: [www.tec@gov.in](http://www.tec@gov.in)

1/2

No. \_\_\_\_\_

Dated: <dd.mm.yyyy>

### TERMS & CONDITIONS

- i) This certificate is issued for the proto type developed by the Applicant.
- ii) This certificate merely indicates conformance to the specifications mentioned herein and the actual use of the product is subject to the applicable rules and regulations.
- iii) This certificate does not cover any functions or features beyond the scope of the TEC specification mentioned herein.
- iv) This certificate issued by TEC shall not be valid for any hardware variant of the product. Any hardware variant of the product shall be treated as a different model for which a fresh certificate shall be required.
- v) The software version mentioned in this certificate was the version declared by the certificate holder at the time of testing of the product. Any change in the software version of the product has to be brought to the notice of TEC along with a declaration as per the prescribed procedure to avoid cancellation of the certificate. TEC will issue an acknowledgement of receipt of such declaration.
- vi) For radio communication equipment, the operating frequencies shall comply with the approved frequencies by Wireless Planning and Co-ordination (WPC) wing of Department of Telecommunications. Possession, use, sale and operation of the wireless product is subject to applicable permissions/licenses.
- vii) If any deterioration of performance of the technology approved product is noticed during use in Telecom Network, the department reserves the right to cancel/suspend the certificate.
- viii) TEC may amend/suspend/cancel this certificate in view of Government orders and rules or any anomaly noted by TEC/RTEC.

**Tested by:** <HQ group>, TEC HQ.

(-Name-)  
**DIRECTOR(TA)**

To

< Applicant's Address >