Transport Commissionerate, 2nd Floor, Trans Towers, Vazhuthacaud, Thycaud P.O
Thiruvananthapuram - 695 014
e-mail: tcoffice.mvd@kerala.gov.in | web: www.mvd.kerala.gov.in | ☎ 0471-2333317

From
Transport Commissioner,
Motor Vehicles Department, GoK

To
All Deputy Transport Commissioners,
All Regional Transport Officers,
All Joint Regional Transport Officers.

Sir,


Ref: 1. Request letter received dated 12.02.2019 from M/s Eicher Tractors.

M/s Eicher Tractors, in their letter reference 1st cited has requested to grant approval for the registration of the following vehicles (N3 Category & BS III Standards) Manufactured by M/s Eicher Tractors.

<table>
<thead>
<tr>
<th>Sl No.</th>
<th>Base Models/Variants</th>
<th>Certificate No &amp; Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Eicher 485 USJ</td>
<td>CMVR/T-946/1035/2016-2017</td>
</tr>
</tbody>
</table>

The Central Farm Machinery Training & Testing Institute has granted approval to above vehicles vide reference 2nd cited regarding the changes in technical specifications and certified that the vehicles comply with the CMV Rules 1989. The details of CFMT&TI Certificate has been published in the official website.

All the Registering Authorities and Additional Registering Authorities are directed to register the vehicles specified in Annexure I of the CFMT&TI Certificates subject to the compliance of CMV Rules, 1989 as amended up-to-date. They are also directed to verify the compliance of provisions of Act and Rules other than those mentioned in the CFMT&TI certificate.

Yours faithfully,
Sd/-
V SURESHKUMAR
JOINT TRANSPORT COMMISSIONER
For Transport Commissioner

Copy to: M/s. Eicher Tractors, Plot No.1, Sector D, Industrial Area, Mandideep- 462046, Distt. Raisen (MP) for information.

Approved for Issue

Senior Superintendent.
CERTIFICATE FOR AGRICULTURAL WHEELED TRACTOR FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES, 1989 (AS APPLICABLE ON DATE)

M/s. EICHER TRACTORS
(A unit of TAFE Motors & Tractors Limited, a wholly owned subsidiary of TAFE)
Plot No.1, Sector - D, Industrial Area, Mandideep – 462 046, Distt. Raisen (M.P.)

1. Based on the verification of documents and tests conducted on the Prototype / Commercial-base model Eicher 485 USJ TRACTOR fitted with M/s. Eicher Engines “398 ED” diesel engine, and also in the light of declarations furnished by the applicant M/s. EICHER TRACTORS (A unit of TAFE Motors & Tractors Limited, a wholly owned subsidiary of TAFE), Plot No.1, Sector - D, Industrial Area, Mandideep – 462 046, Distt. Raisen (M.P.), vide letter No. nil dated: 18.07.2015 it is certified that Eicher 485 USJ TRACTOR manufactured by M/s. EICHER TRACTORS (A unit of TAFE Motors & Tractors Limited, a wholly owned subsidiary of TAFE), Plot No.1, Sector - D, Industrial Area, Mandideep – 462 046, Distt. Raisen (M.P.), complies with the provisions of Central Motor Vehicles Rules, 1989, as amended up-to-date and as detailed in the Annexure-A. [No. of page(s): 1].

2. The details of coding system along with location of chassis No., engine No. and coding for the month and year of production of the tractor, as submitted by the manufacturer, is enclosed as Annexure-B. [No. of page(s): 1].

3. The brief technical specification of the said tractor, as submitted by the manufacturer, is enclosed as Annexure-C. [No. of page(s): 8].

4. The drawing of Rear Marking Plate, as submitted by the manufacturer applicant M/s. EICHER TRACTORS (A unit of TAFE Motors & Tractors Limited, a wholly owned subsidiary of TAFE), Plot No.1, Sector - D, Industrial Area, Mandideep – 462 046, Distt. Raisen (M.P.), is enclosed as Annexure-D. [No. of page(s): 1].


ii) This certificate is issued for the purpose of registration only.

iii) Central Farm Machinery Training & Testing Institute, Budaun (M.P.) has the right to initiate cancellation/withdrawal of the certificate issued at any time in case of misrepresentation/alteration/fraud etc comes to the knowledge of Institute.

(R. M. TIWARI)
Senior Agricultural Engineer
Head of Test Laboratory

(J.J.R. NARUWARE)
DIRECTOR
Head of the Testing Institute
(Authorized Signatory)
The Eicher 485 USJ TRACTOR fitted with M/s. Eicher Engines “398 ED” diesel engine has been Inspected/Tested and its documents have been verified for compliance to following CMV Rules and found to be complying:

<table>
<thead>
<tr>
<th>Rule No.</th>
<th>Title</th>
<th>Sub Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Form and manner of display of registration marks on motor vehicles</td>
<td>(1)(vi) &amp; (5)</td>
</tr>
<tr>
<td>93A</td>
<td>Overall dimensions for agricultural tractors</td>
<td>(1), (2), (3), &amp; (4)</td>
</tr>
<tr>
<td>94</td>
<td>Condition of tyres</td>
<td>(1), (2) &amp; (3)</td>
</tr>
<tr>
<td>95A</td>
<td>Size and ply rating of tyres for agricultural tractor</td>
<td>(1) &amp; (2)</td>
</tr>
<tr>
<td>96 C</td>
<td>Brakes for agricultural tractor</td>
<td>--</td>
</tr>
<tr>
<td>98 B</td>
<td>Steering gears for agricultural tractor</td>
<td>(1), (2) &amp; (3)</td>
</tr>
<tr>
<td>99</td>
<td>Forward and Backward motion</td>
<td>--</td>
</tr>
<tr>
<td>404</td>
<td>Windscreen wiper</td>
<td>(2B)</td>
</tr>
<tr>
<td>104B</td>
<td>Fitment of reflectors for agricultural tractors</td>
<td>(1) &amp; (2)</td>
</tr>
<tr>
<td>106</td>
<td>Deflection of lights</td>
<td>(1)</td>
</tr>
<tr>
<td>108</td>
<td>Use of red, white or blue light</td>
<td>(1) (viii)</td>
</tr>
<tr>
<td>112</td>
<td>Exhaust gases</td>
<td>--</td>
</tr>
<tr>
<td>115A</td>
<td>Emission of smoke and vapour from agricultural tractors, power tillers and construction equipment vehicles driven by diesel engines [Bharat (Trem) Stage-III A].</td>
<td>(2), (3) &amp; (7)</td>
</tr>
<tr>
<td>117</td>
<td>Speedometer (Engine rpm cum-hour meter)</td>
<td>(1)</td>
</tr>
<tr>
<td>119</td>
<td>Horns</td>
<td>(1) &amp; (2)</td>
</tr>
<tr>
<td>120</td>
<td>Silencers</td>
<td>(1) &amp; (3)</td>
</tr>
<tr>
<td>121</td>
<td>Painting of Motor Vehicles</td>
<td>(1)</td>
</tr>
<tr>
<td>122</td>
<td>Embossment of Chassis Number, Engine Number and month of manufacture</td>
<td>(1A) &amp; (2)</td>
</tr>
<tr>
<td>124A</td>
<td>Safety standards of components for agricultural tractors</td>
<td>(1), (2), (3), (4), (6), (6),</td>
</tr>
<tr>
<td>125</td>
<td>Safety belt, collapsible steering column, auto- dipper &amp; padded dash boards</td>
<td>(2)</td>
</tr>
</tbody>
</table>

(R. M. TIWARI)
Senior Agricultural Engineer
Head of Test Laboratory
Senior Agricultural Engineer
Government of India
Central Farm Machinery Training & Testing Institute, Mehsana - 384300
Details of location of Chassis number and code for month and year of manufacture as per rule 122 of CMVR.

| Name of the Vehicle Manufacturer & Address                      | Eicher Tractors  
| (A Unit of TAFE Motors and Tractors Limited; A Wholly owned subsidiary of TAFE)  
| Plot 1, sector D, Industrial  
| Area, MANDIDEEP – 462046  
| Distt. Raisen (M.P) |
| Name of the basic model      | Eicher 485 USJ |
| Name of Variants, if any   | None |
| Place of Embossing or etching the Chassis Number (Vehicle Identification Number), Supporting details by drawing or pictures may be provided if necessary. | (View from Driver seat)  
| Location of Engine / Chassis No is on a plate riveted to RHS of mudguard.  
| Punching of Chassis No on RHS of Front axle  
| Punching of Engine No on RHS of engine crank case |

### Code for month and year of production:

<table>
<thead>
<tr>
<th>Code for month of production:</th>
<th>Code for year of production:</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Month</strong></td>
<td><strong>Code</strong></td>
</tr>
<tr>
<td>January, 1996</td>
<td>01</td>
</tr>
<tr>
<td>February, 1996</td>
<td>02</td>
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<tr>
<td>March, 1996</td>
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<td>April, 1996</td>
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<td>May, 1996</td>
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<td>June, 1996</td>
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<td>July, 1996</td>
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<td>March, 2004</td>
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<td>April, 2004</td>
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<td>April, 2014</td>
<td>220</td>
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<td>April, 2016</td>
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<tr>
<td>July, 2016</td>
<td>247</td>
</tr>
<tr>
<td>July, 2016</td>
<td>248...</td>
</tr>
</tbody>
</table>

Position of the code for month of production in the Chassis number: 2nd, 3rd & 4th digits

Position of the code for year of production in the Chassis number: 2nd, 3rd & 4th digits

Height of the Chassis number (Vehicle Identification Number): 13 mm

Manufacturer/Applicant: TAFE Motors and Tractors Limited, Mandidheep

Signature: [Signature]

Name: S.B. Vishvakarma
Designation: Deputy Manager – R&D
Date: 01/08/2015

Document No, if any: [Document No]
Make & Model of: Tractor: Eicher 485 USJ

Testing Agency: CFMT&TI, Budini (M.P)

Signature: [Signature]

Name: R.M. Tiwari
Designation: Senior Agricultural Engineer
Date: 01/08/2015
GOVERNMENT OF INDIA  
CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE  
MIN. OF AGRI., (DEPT. OF AGRI. AND CO-OPN.)  
TRACTOR NAGAR, P.O. BUDNI (M.P.) 466445  
E-mail : fmti-mp@nic.in  
Web site : dacnet.nic.in/cfmtti

BRIEF TECHNICAL SPECIFICATIONS FOR AGRICULTURAL TRACTOR  
(See AIS : 007 – Table 16)  
(To be submitted by the Applicant/Manufacturer to testing Agency in quadruplicate)

1.0 GENERAL DESCRIPTION ABOUT MANUFACTURER / APPLICANT:
1.1 Name of tractor manufacturer: EICHER TRACTORS  
Address of Manufacturer: (A Unit of TAFE Motors & Tractors Limited. A Wholly owned subsidiary of TAFE)  
Plot No.1 Sector-D, Industrial Area Mandideep-462046, Distt. Raisen (M.P)  
Telephone Number(s): (07480) 407680 – 84  
Fax Number(s): 07480-404635  
E-mail Address: eltb@fmti.co.in  
Website: ----

1.2 Name of Applicant, if other than manufacturer: -- NA--  
Address of applicant: -- NA--  
Telephone Number(s): -- NA--  
Fax Number(s): -- NA--  
E-mail Address: -- NA--  
Website: -- NA--

2.0 BRIEF TECHNICAL SPECIFICATION OF TRACTOR:  
2.1 Agricultural Tractor / Other Tractor:  
Make: Eicher  
Model: Eicher 485 USJ  
Type: 2WD, Standard, Agricultural Tractor.  
Variant(s) if any (please give brief description of variants separately).  
Chassis No.: 922911521340  
Serial Number: ----

<table>
<thead>
<tr>
<th>Manufacturer/Applicant</th>
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<tr>
<td>Signature</td>
<td></td>
<td>Signature:</td>
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<tr>
<td>Name : S. B. Vishwakarma</td>
<td></td>
<td>Name: B. M. Tiwari</td>
</tr>
<tr>
<td>Designation : Deputy Manager-R&amp;D</td>
<td></td>
<td>Designation: Senior Agricultural Engineer.</td>
</tr>
<tr>
<td>Date : 01/08/2016</td>
<td></td>
<td>Date: 19-08-2016</td>
</tr>
</tbody>
</table>

Make & Model of Tractor: Eicher, Eicher 485 USJ
3.0 Prime Mover for the Tractor:

- **Make**: M/s Eicher Engines
- **Model**: 398 ED
- **Type**: Four stroke, Air cooled, Direct injection, Diesel Engine
- **Serial Number**: 522727234154
- **Bore / stroke, mm (apa)**: 100 / 125
- **Capacity (cc)**: 2945
- **No. of cylinders**: Three
- **Max engine out put, kW @ rpm (declared value)**: 31.5 kW @ 2150
- **Rated engine out put, kW @ rpm (declared value)**: 31.5 kW @ 2150
- **Arrangement of valves**: Overhead

3.1 Air Cleaner:

- **Nos.**: One
- **Location**: In front of engine under the bonnet
- **Type**: Oil Bath

3.1.1 Air Cleaner (Optional)

- **Nos.**: One
- **Location**: In front of engine under the bonnet
- **Type**: Dry

3.2 Cooling System:

- **Type**: Air cooled
- **Radiator cap pressure marking**: NA

3.3 Fuel System:

- **Type**: Gravity & force feed

<table>
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<td><strong>Name</strong> R. M. Tiwari</td>
</tr>
<tr>
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<td>Deputy Manager-R&amp;D</td>
<td><strong>Designation</strong>: Senior Agricultural Engineer</td>
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<tr>
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<td>01/08/2016</td>
<td><strong>Date</strong>: 19-08-2016</td>
</tr>
</tbody>
</table>

Make & Model of Tractor: Eicher, Eicher 485 USJ
3.3.1 Fuel filter(s):
- Make: BOSCH Primary & Secondary both Paper element
- Type: Two
- Number(s): Additional filter(s), if any:

3.3.2 Fuel feed pump:
- Make: BOSCH Plunger with hand primer
- Type: 9 440 030 029
- Model / Group Combination No.: F002 AOZ 909
- PES 3A 90D 320RS 2000 Plunger Inline
- Serial number: 45924092

3.3.3 Fuel Injection Pump:
- Make: BOSCH
- Type: RSV350... 1075 A1C 1640R Mechanical, Centrifugal Variable Speed
- Model / Group Combination No.
- Serial number

3.3.4 Governor:
- Make: BOSCH
- Model/group combination No.
- Type

3.3.5 Fuel tank:
- Material: Plastic
- Location: Above Fly wheel housing
- Capacity (l): 45

3.4 Lubrication System:
- Type: Force feed & Splash
- No. & type of oil filter (s): One, full flow, spin on

3.5 Clutch:
- Type: Dual, Dry, friction plate
- No. of plate (s): Two
- Main: 280 mm
- PTO: 280 mm

3.5.1 Clutch (Optional)
- Type: Single, Dry, friction plate
- No. of plate (s): One
- Main: 280 mm
- PTO: N.A.

<table>
<thead>
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<th>Manufacturer/Applicant</th>
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<th>Testing Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name: S. B. Vishwakarma</td>
<td>Revision status</td>
<td>CFMT &amp; TI, Budni (M.P.)</td>
</tr>
<tr>
<td>Designation: Deputy Manager-R&amp;D</td>
<td></td>
<td></td>
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<tr>
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<td>Signature:</td>
<td>Signature:</td>
</tr>
</tbody>
</table>

Make & Model of Tractor: Eicher, Eicher 485 USJ

Name: R. M. Tiwari
Designation: Senior Agricultural Engineer:
Date: 19-08-2016
3.6 Gear box:
  Make : Eicher
  Model & identification no., if any : ---
  Type : Combination of constant and sliding mesh
  No. of arrangements : 2(4+1)

3.6.1 No. of gears:
  - Forward : 8
  - Reverse : 2

3.6.2 Range of speeds, (kmph)
  - Forward
    With rear tyre size 14.9X28 : 3.22 to 32.31
    With rear tyre size 13.6X28 : 3.07 to 30.80
  - Reverse
    With rear tyre size 14.9X28 : 4.17 to 12.38
    With rear tyre size 13.6X28 : 3.97 to 11.80

3.6.3 Gear Shifting Pattern
  Location of main gear shifting levers : Side Shift
  Location of Speed Range Selector (L/H) : RHS of operator seat
  LHS of operator seat

3.6.4 Gear Shifting Pattern (Optional) : Centre Shift

3.7 Steering:
  Make : DANFOSS
  Type : Hydrostatic
  Steering wheel dia., (mm) : 430
  Location of steering wheel : Above fly wheel housing
  Steered axle : Front
  Minimum turning diameter,( m) : 7.7 (without brake)

3.7.1 Steering (Optional)
  Make : ZF
  Type : Mechanical
  Steering wheel dia., (mm) : 430
  Location of steering wheel : Above fly wheel housing
  Steered axle : Front
  Minimum turning diameter,( m) : 8.3 (without brake)

3.8 Wheel equipment & tyres:

3.8.1 Front:
  Tyre size & ply rating : 6.00 X 16, 8 PR
  Track width range , (mm) : 1385(std) 1580
  Recommended tyre pressure for road work, kPa (kgf/cm²) : 177 to 206
  Optional tyre size & ply rating : N/A
### 3.8.2 Rear:
- **Tyre size & ply rating**: 14.9 X 28, 12 PR
- **Track width range, mm**: 1395(std) to 1755
- **Recommended tyre pressure for road work, kPa (kgf/cm²)**: 96 to 110
- **Optional tyre size & ply rating**: 13.6X28, 12PR

### 3.9 Brakes:
#### 3.9.1 Service brake:
- **Type (describe briefly)**: Oil Immersed disc
- **Location**: On differential half axle shaft.
- **Method of operation**: RHS foot operated for independent as well as combined operation.

#### 3.9.2 Trailer Brake
- **Pressure available at Aux pipe end**: Provided with Auxiliary Valve
- **Range of flow available at full throttle (l/min)**: 170-180 bar
- **25±4**

#### 3.9.3 Hand / Parking brake:
- **Type and brief description**: Pawl & ratchet type locking arrangement for service brakes.
- **Location**: Same as service brake
- **Method of operation**: Service brakes are locked in position by a hand lever provided on RHS foot rest.

### 3.10 Electrical system of tractor:
#### 3.10.1 Battery:
- **Type**: Lead acid
- **Number(s)**: One
- **Capacity and rating**: 12V, 75 Ah at 20 hours discharge rate

#### 3.10.2 Generator (Alternator/Dynamo):
- **Type**: Alternator
- **Max. output, (W)**: 12 Volt, 320W @ 5000 rpm

#### 3.10.3 Starter:
- **Type**: Pre-engaging, solenoid operated
- **Max power input, (kW)**: 12V, 2.7 kW

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<td></td>
<td>CFMT &amp; TI, Budni (M.P)</td>
</tr>
<tr>
<td><strong>Name</strong>: S. B. Vishwakarma</td>
<td></td>
<td><strong>Signature</strong>:</td>
</tr>
<tr>
<td><strong>Designation</strong>: Deputy Manager-R&amp;D</td>
<td>Make &amp; Model of Tractor: Eicher, Eicher 485 USJ</td>
<td><strong>Designation</strong>: Senior Agricultural Engineer.</td>
</tr>
<tr>
<td><strong>Date</strong>: 01/08/2016</td>
<td></td>
<td><strong>Date</strong>:</td>
</tr>
</tbody>
</table>
3.10.4 Head Lights:
- Make: Neolite
- Numbers: Two
- Make & Wattage of bulbs, (W): Phoenix & 12V, 60/55W
- Location: In front of bonnet
- Colour: White

3.10.5 Parking Light(s):
Front:
- Make: Hilux
- Number(s): Two
- Make & Wattage of bulbs, (W): Osram & 12V, 5 W
- Location: On LHS and RHS of fender front side
- Colour: White
Rear:
- Make: Hilux
- Number(s): Two
- Make & Wattage of bulbs, (W): Osram & 12V, 21/5 W
- Location: On LHS and RHS of fender rear side
- Colour: Red

3.10.6 Turn indicator light(s):
Front:
- Make: Hilux
- Number(s): Two
- Make & Wattage of bulbs, (W): Osram & 12V, 21W
- Location: On LHS and RHS of fender front side
- Colour: Amber
Rear:
- Make: Hilux
- Number(s): Two
- Make & Wattage of bulbs, (W): Osram & 12V, 21 W
- Location: Rear side of both mudguards
- Colour: Amber

3.10.7 Brake / stop light:
- Make: Hilux
- Number(s): Two
- Make & Wattage of bulbs, (W): Osram & 12V, 21/5 W
- Location: On LHS and RHS of fender rear side
- Colour: Red

Manufacturer/Applicant: S. B. Vishwakarma
Name: S. B. Vishwakarma
Designation: Deputy Manager-R&D
Date: 01/08/2016
Make & Model of Tractor: Eicher, Eicher 485 USJ

Testing Agency: CFMT & TI, Bhopal (M.P.)
Signature: [Signature]
Name: R. M. Tiwari
Designation: Senior Agricultural Engineer
Date: 19-08-2016
3.10.8 Plow / work light:
- Make : N.A.
- Number(s) : N.A.
- Make & Wattage of bulbs, (W) : N.A.
- Location : N.A.
- Colour : N.A.

3.10.9 Reflector(s):
Front: Not Provided
- Shape : Rectangular
- No.(s) : Two
- Location : On LHS and RHS of fender rear side
- Colour : Red

3.11 Mass, (kg)
3.11.1 Unballasted
- Front : 875
- Rear : 1265
- Total : 2140

3.11.2 Road Ballasted
- Front : 875
- Rear : 1265
- Total : 2140

3.11.3 Max permissible Ballasted
- Front : 925
- Rear : 1845
- Total : 2770

3.12 Max speed, (kmph)
- 34.45 @ 2318 engine rpm

3.12.1 Max Speed (Optional)
- 33.2

3.13 Max gradeability in degrees
- 12°

3.14 Seat (s):
3.14.1 Operator's seat:
- Make : Harita
- Type : Cushioned with backrest
- Location : On ADDC

3.14.2 Additional seat (s), if any:
- Number : N.A.
- Type : N.A.
- Location : N.A.

3.15 Mirror:
- Type : Rear view type
- Location : On right side of fuel tank cover

<table>
<thead>
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<td>Make &amp; Model of Tractor: Eicher, Eicher 485 USJ</td>
</tr>
<tr>
<td>Designation : Deputy Manager-R&amp;D Date : 01/08/2016</td>
<td>Name : R. M. Tiwari Designation: Senior Agricultural Engineer. Date : 15-08-2016</td>
<td>Signature :</td>
</tr>
</tbody>
</table>
3.16 Wheel Base (mm) : 2005

3.17 Overall Dimension in travel mode (mm):
- Min. ground clearance : 330
- Overall length : 3690
- Overall width : 1785
- Overall height : 2185

I, S.B. Vishwakarma of Eicher Tractors (A Unit of TAFE Motors & Tractors Limited); hereby declare that information given above in Page No. 1 to 8 is as per design / drawings of the prototype / commercial model of tractor submitted for inspection / test and is complete and correct to the best of my knowledge and belief. I also understand that in case any information furnished above is found to be "not correct" or "incomplete", then among other actions, the certificate is liable to be cancelled. It is further declared that this machine has been never ever been tested by the any test agency as referred in Rule 126 of CMVR 1989. It is further declared that no application has been submitted to any other test agencies as referred in Rule 126 of CMVR 1989.

Applicant / Manufacturer : Eicher Tractors
(A Unit of TAFE Motors & Tractors Limited)

Signature of Authorized Signatory: 

Name : S. B. Vishwakarma
Designation : Deputy Manager- R&D
Place : Mandideep
Date : 01/08/2016

<table>
<thead>
<tr>
<th>Manufacturer/Applicant</th>
<th>Document No, if any Revision status</th>
<th>Testing Agency CFMT &amp; TI, Budni (M.P.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature :</td>
<td>Make &amp; Model of Tractor: Eicher, Eicher 485 USJ</td>
<td></td>
</tr>
<tr>
<td>Name : S. B. Vishwakarma</td>
<td>Signature :</td>
<td>Name : R. M. Tiwari</td>
</tr>
<tr>
<td>Designation : Deputy Manager-R&amp;D</td>
<td></td>
<td>Designation : Senior Agricultural Engineer</td>
</tr>
<tr>
<td>Date : 01/08/2016</td>
<td>Make &amp; Model of Tractor: Eicher, Eicher 485 USJ</td>
<td>Date : 19-08-2016</td>
</tr>
</tbody>
</table>

1. Whereas M/s. Eicher Tractors (A Unit of TAFE Motors and Tractors Ltd., A Wholly Owned subsidiary of TAFE), Plot No. 1, Sector D, Industrial Area, Mандideep 462 046 Distt. Raisen (M.P.) has submitted an undertaking letter No. Nil dated 28.03.2015 along with the documents including test reports of components issued by M/s. ICAT Manesar, Gurgaon in respect of Eicher 485 TRACTOR.


<table>
<thead>
<tr>
<th>S. No.</th>
<th>Title</th>
<th>Rule No.</th>
<th>sub-rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>i)</td>
<td>Windsreen wiper</td>
<td>101</td>
<td>(2B)</td>
</tr>
<tr>
<td>ii)</td>
<td>Deflection of lights</td>
<td>106</td>
<td>(1)</td>
</tr>
<tr>
<td>iii)</td>
<td>Silencers</td>
<td>120</td>
<td>(3)</td>
</tr>
<tr>
<td>iv)</td>
<td>Embossment of chassis number and Engine number and month of manufacture</td>
<td>122</td>
<td>(1A)</td>
</tr>
<tr>
<td>v)</td>
<td>Safety standards of components for agricultural tractors</td>
<td>124A</td>
<td>(1), (3), (6) &amp; (13)</td>
</tr>
<tr>
<td>vi)</td>
<td>Trailer brake</td>
<td>96C</td>
<td></td>
</tr>
</tbody>
</table>

3. The list of changes in technical specifications, as submitted by the manufacturer is enclosed as Annexure-H [No. of page(s) - 1].


ii) Further, this extension certificate is issued on the basis of documents produced / submitted by the manufacturer. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the manufacturer. Further Central Farm Machinery Training & Testing Institute, Budni (M.P.) has the right to initiate cancellation/withdrawal of the certificate issued at any time in case of misrepresentation/alteration/fraud etc. comes to the knowledge of Institute.

(R. M. TIWARI)
Senior Agricultural Engineer
Head of Test Laboratory

(C. R. LOHI)
DIRECTOR
Head of the Testing Institute
(Authorized Signatory)
Table 12 of AIS: 007
Details of changes in Technical Specification

<table>
<thead>
<tr>
<th>Manufacturers name and address:</th>
</tr>
</thead>
<tbody>
<tr>
<td>M/s. Eicher Tractors (A Unit of TAFE Motors and Tractors Ltd., A Wholly Owned subsidiary of TAFE), Plot No. 1, Sector D, Industrial Area, Mandideep 462 046 Distt. Raisen (M.P)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Name of the model and variants:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Base Model: Eicher 485</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CMVR Certificate No.</th>
<th>Date</th>
<th>Specification No.</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Valid Extensions</th>
<th>Date</th>
<th>Specifications Revision</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>Nature of Change:</th>
</tr>
</thead>
<tbody>
<tr>
<td>For compliance to Statutory requirements</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Changes in brief technical specification:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sr. No.</td>
</tr>
<tr>
<td>---------</td>
</tr>
<tr>
<td>6.0</td>
</tr>
<tr>
<td>6.1</td>
</tr>
<tr>
<td>6.2</td>
</tr>
<tr>
<td>6.3</td>
</tr>
</tbody>
</table>

Table 12 A of AIS:007 (Continuation of Table 12)
Details of changes in Technical Specification

<table>
<thead>
<tr>
<th>Do the changes affect the compliance to CMVR? (Yes/No)</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>If yes, which provisions are affected? (Indicate the Rule No. and where applicable the number of standard)</td>
<td>--- NA ---</td>
</tr>
<tr>
<td>Note: In case CEA is to be applied, for clearance without all or some tests, enclose the details as per Table 10.</td>
<td>--- NA ---</td>
</tr>
</tbody>
</table>

<p>| Test report references for tests carried out for new specifications (if any) |</p>
<table>
<thead>
<tr>
<th>Rule No</th>
<th>Subject</th>
<th>Test Report No.</th>
<th>Cross reference to Sr. No. of Table 18</th>
</tr>
</thead>
<tbody>
<tr>
<td>- NA -</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Name of Manufacturer: TAFE Motors and Tractors Ltd; Mandideep - 462046 (M.P)

Name: Suresh Gopal
Designation: Chief Engineer – R&D
Date: 30/03/2015

Make & Model of tractor: Eicher 485

Name of Testing Agency: C.F.M.T. & T.I., Budni (M.P)

Name: R.M. Tiwari
Designation: Senior Agricultural Engineer
Date: Government of India

Central Farm Machinery Training & Testing Institute, Budni - 466445
EXTENSION No. 03 To CERTIFICATE No. CMVR/T-59/2005-2006 dated 29.09.2005


2. And Whereas M/s. Eicher Tractors (A Unit of TAFE Motors & Tractors Ltd., A Wholly Owned subsidiary of TAFE), Plot No.1, Sector D, Industrial Area, Mandideep-462 046 has submitted an undertaking bearing No. NII dated 08.03.2010 with regard to change in Technical Specification of the said tractor/engine.

3. Now therefore, on the basis of the above, the validity of the CMVR Certificate No. CMVR/T-59/2005-2006 dated 29.09.2005 is extended for the compliance of Bharat (Trem) stage IIIA Mass Emission Standard under Rule 115-A (2), (3) & (7) of Central Motor Vehicles Rules, 1989 applicable w.e.f. 01-04-2010.

4. The list of changes in technical specifications, as submitted by M/s. Eicher Tractors (A Unit of TAFE Motors & Tractors Ltd., A Wholly Owned subsidiary of TAFE), Plot No.1, Sector D, Industrial Area, Mandideep-462 046, is enclosed as Annexure-F [No. of page(s)- 02] and Also the details of location of chassis number and code for month & year of manufacturer (Table-11) is enclosed as Annexure-G [No. of page(s)- 01].

5. This extension should be read in conjunction with earlier Certificate No. CMVR/T-59/2005-2006 dated 29.09.2005.

N.B: i) This extension is issued in pursuance of Gazette Notification G.S.R. 84(E) dated 09.02.2009.
ii) Further, this extension certificate is issued on the basis of documents produced / submitted by the manufacturer. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the manufacturer. Further Central Farm Machinery Training & Testing Institute, Budni (M.P.) has the right to initiate cancellation/withdrawal of the certificate issued at any time in case of misrepresentation/ alteration/fraud etc. comes to the knowledge of Institute.

(C. V. CHIMOTE)
Test Engineer
Head of Test Laboratory

(V. N. KALE)
DIRECTOR
Head of the Testing Institute
(Authorized Signatory)
### Table of AIS: 007

#### Details of changes in Technical Specification

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Specification No. &amp; Clause No.</th>
<th>Description</th>
<th>Parameter (Earlier)</th>
<th>Parameter (New Extension)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.1</td>
<td>Dated</td>
<td>28.03.2005 &amp; 24.03.2009</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.2</td>
<td>Specifications Revision</td>
<td>NA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Nature of Change</td>
<td>For compliance to Statutory requirements</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Specification No. &amp; Clause No.</th>
<th>Description</th>
<th>Parameter (Earlier)</th>
<th>Parameter (New Extension)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.0</td>
<td>2.1</td>
<td>Agricultural Tractor/Other Tractor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.1</td>
<td>Chassis No.</td>
<td>911711557692</td>
<td>916411552000</td>
<td></td>
</tr>
<tr>
<td>6.2</td>
<td>Serial No.</td>
<td>____</td>
<td>____</td>
<td></td>
</tr>
<tr>
<td>6.3</td>
<td>Year of manufacture</td>
<td>117</td>
<td>164</td>
<td></td>
</tr>
<tr>
<td>6.4</td>
<td>3.0</td>
<td>Prime Mover (Engine for the Tractor)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.5</td>
<td>Engine Model</td>
<td>396ED</td>
<td>396ED</td>
<td></td>
</tr>
<tr>
<td>6.6</td>
<td>Engine Serial No.</td>
<td>511727225671</td>
<td>516827253378</td>
<td></td>
</tr>
<tr>
<td>6.7</td>
<td>3.3.3 Model/Group combination of fuel Injection pump</td>
<td>MICO, LIC BOSCH F002 AG0 085</td>
<td>BOSCH (India) E 040 2517 00</td>
<td></td>
</tr>
<tr>
<td>6.8</td>
<td>3.3.4 Model/Group combination of governor</td>
<td>MICO, LIC BOSCH RSV300...1075 A1C 929R</td>
<td>BOSCH RSV300...1075 A1C 929R</td>
<td></td>
</tr>
</tbody>
</table>

6A.1 Table 11 of AIS 007 | Location of punching details of Engine No |
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LHS on engine crank case</td>
<td>LHS on engine crank case</td>
</tr>
</tbody>
</table>


<table>
<thead>
<tr>
<th>Description of engine</th>
<th></th>
<th></th>
</tr>
</thead>
</table>

Name of Manufacturer : M/s. Eicher Tractors (A Unit of TAFE Motors and Tractors Ltd.)

Signature : [Signature]

Name : Suresh Gopal

Designation : Senior Dy General Manager - R&D

Date : 05.07.2010

Document No (if any and its Revision status) : [Document No]

Name of Testing Agency : C.F.M.T. & T.I., Budni (M.P.)

Signature : [Signature]

Name : C.V. Chimote

Designation : Test Engineer

Date : 16-07-2010
<table>
<thead>
<tr>
<th>7.2</th>
<th>1.2.1</th>
<th>Declared Max PTO power (kW) @ engine speed</th>
<th>27.9 @ 2150±30 rpm</th>
<th>27.95 @ 2150±30 rpm</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.3</td>
<td>4.2.2.1.3</td>
<td>Fuel delivery (mm³/stroke)</td>
<td>50±3</td>
<td>50±2</td>
</tr>
<tr>
<td>7.4</td>
<td>4.2.2.2</td>
<td>Injectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5</td>
<td>4.2.2.2.2</td>
<td>Type</td>
<td>P Type, Holder: F002 C70 012, Nozzle-F002 C40 616 (Dsla 148P 1537)</td>
<td>P Type (Com. No. F 002 C7Z 248) Holder: F002 C70 012, Nozzle-F002 C40 616 (Dsla 148P 1537)</td>
</tr>
<tr>
<td>7.6</td>
<td>4.2.2.1.6</td>
<td>Injection timing</td>
<td>16±1 Deg. BTDC</td>
<td>13±1 Deg. BTDC</td>
</tr>
<tr>
<td>7.7</td>
<td>4.2.2.4.4</td>
<td>Max. speed without load</td>
<td>2375±50</td>
<td>2350±50</td>
</tr>
</tbody>
</table>

Table 12 of AIS-007 (Continuation of Table 12)

**Details of changes in Technical Specification**

<table>
<thead>
<tr>
<th>8</th>
<th>Do the changes affect the compliance to CMVR? (Yes/No)</th>
<th>Yes</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>If yes, which provisions are affected? (Indicate the Rule No. and where applicable the number of standard)</td>
<td>Emission Regulation:– (Rule No-115A(2), (3) &amp; (7))</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Labeling Plate &amp; Punching details:– (Rule No-122-1A &amp; 2)</td>
</tr>
</tbody>
</table>

-NA-

| 10 | Test report references for tests carried out for new specifications (if any) | -NA- |

Name of Manufacturer: M/s. Eicher Tractors (A Unit of TAFE Motors and Tractors Ltd.)

Signature: [Signature]

Name : Suresh Gopal

Designation : Senior Dy General Manager - R&D

Date : 05.07.2010

Document No (if any and its Revision status) :

Name of Testing Agency: C.F.M.T. & T.I., Budni (M.P.)

Signature: [Signature]

Name : C.V. Chimote

Designation : Test Engineer

Date : [Date]

[Signature]

Government of India

Central Farm Machinery Training & Testing Institute, Budni - 485445
Table 11 of AIS: 007

Details of location of Chassis number and code for month and year of manufacture as per rule 122 of CMVR.

| Name of the Vehicle Manufacturer & Address | Eicher TRACTORS  
|-------------------------------------------|-----------------  
|                                           | (A unit of TAFE Motors & Tractors Ltd.  
|                                           | A Wholly owned subsidiary of TAFE)  
|                                           | Plot # 1: sector D Industrial  
|                                           | Area, MANDIDEEP - 462046  
|                                           | Distt. Raisen (M.P)  

| Name of the basic model | Eicher - 485 Tractor  
|-------------------------|----------------------  
| Name of Variants, if any | None  
| Place of Embossing or etching the Chassis Number (Supporting details by drawing or pictures may be provided if necessary) | (View from Driver seat)  
| Location of Engine / Chassis No is on a plate riveted to RHS of mudguard.  
| Punching of Engine No on RHS of engine crank case  
| Punching of Chassis No on RHS of Front axle  

Code for month and year of production of Tractor / Engine

<table>
<thead>
<tr>
<th>Code for month &amp; year of production:</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month / Year</td>
<td></td>
</tr>
<tr>
<td>April, 2004</td>
<td>100</td>
</tr>
<tr>
<td>May, 2004</td>
<td>101</td>
</tr>
<tr>
<td>April, 2009</td>
<td>160</td>
</tr>
<tr>
<td>Nov, 2009</td>
<td>167</td>
</tr>
<tr>
<td>Dec, 2009</td>
<td>168</td>
</tr>
<tr>
<td>January, 2010 and so on...</td>
<td>169...</td>
</tr>
</tbody>
</table>

Position of the code for year of production in the Chassis / Engine No: 2nd – 4th

Height of the Chassis / Engine No: Min 5 mm

Manufacturer/Applicant

<table>
<thead>
<tr>
<th>Signature</th>
</tr>
</thead>
</table>
| Name      | Suresh Gopal  
| Designation | Senior DGM - R&D  
| Date      | 09/07/2010  

Document No, if any Revision status

| Make & Model of tractor: Eicher – 485 |

Testing Agency

| CFMT&TI, Budni (M.P) |

Signature

| Name        | C.V. Chimal  
|-------------|--------------  
| Designation | Test Engineer  
| Date        | 16.07.2010  

Test Engineer

Government of India  

Central Farm Machinery Training & Testing Institute, Budni - 486446
EXTENSION No.2 To CERTIFICATE No.CMVR/T-59/2005-2006 Dated: 29.09.2005

1. Whereas M/s. Eicher Tractors (A Unit of TAFE Motors & Tractors Ltd. A wholly owned subsidiary of TAFE), Plot No.1, Sector D, Industrial Area, Mandideep-462 046 has submitted a test report No. ICAT-CEL/2/2008-09/929/0040 dated 06.05.2008 of Rear Marking Plate, issued by ICAT, Manesar Gurgaon-122 050.

2. And Whereas M/s. Eicher Tractors (A Unit of TAFE Motors & Tractors Ltd. A wholly owned subsidiary of TAFE), Plot No.1, Sector D, Industrial Area, Mandideep-462 046 has submitted a declaration with regard to mounting of above Rear Marking Plate on their EICHER 485 TRACTOR vide their letter No. NII dated 13.03.2009.


4. The drawing of Rear Marking Plate, as submitted by M/s. Eicher Tractors (A Unit of TAFE Motors & Tractors Ltd. A wholly owned subsidiary of TAFE), Plot No.1, Sector D, Industrial Area, Mandideep-462 046, is enclosed as Annexure–E (No. of pages - 1).


N.B.: i) This extension is issued in pursuance of Gazette Notification G.S.R. 784(E) dated 12.11.2008.

ii) Further this extension certificate is issued on the basis of documents produced / submitted by the manufacturer. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the manufacturer. Further Central Farm Machinery Training & Testing Institute, Budni (M.P.) has the right to initiate cancellation / withdrawal of the certificate issued at any time in case of misrepresentation/ alteration/fraud etc. comes to the knowledge of Institute.

(P.K. PANDEY)
Senior Test Engineer
Head of Test Laboratory

(V.N. KALE)
DIRECTOR
Head of the Testing Institute
(Authorized Signatory)
NOTE:

1) AREA OF REFLEX REFLECTOR = 2010 cm² (APPROX.)
2) AREA OF FLUORESCENT = 251 cm² (APPROX.)

MINDA M.I.L.-LD SONEPAT
EXTENSION OF APPROVAL FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES

EXTENSION No. 1 To CERTIFICATE No. CMVR/T-59/2005-2006 dated 29.09.2005


2. Rule 120(3) of Central Motor Vehicles Rules 1999, as amended vide GSR 111 (E), dated 10.02.2004, being made applicable w.e.f. 01.08.2006.

N.B. i) This extension is to be read in conjunction with earlier Certificate No. CMVR/T-59/2005-2006 dated 29.09.2005.


(R.K. SINGHAI)
Senior Test Engineer
Head of Test Laboratory

(S.C. JAIN)
DIRECTOR
Head of the Testing Institute
(Authorised Signatory)
CERTIFICATE FOR AGRICULTURAL WHEELED TRACTOR FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLE RULES, 1989 (AS AMENDED FROM TIME TO TIME)

(SEE RULE 126)

Based on the verification of documents, tests conducted at this Institute on the prototype/commercial model of EICHER 485 TRACTOR and certificate No. ARAI/CMVR/AT(Trem III)/398 ED/E1/2005-002 dated 11th January, 2005 issued by ARAI, Pune, for compliance to smoke and mass emission Bharat (Trem) Stage III norms under Rule 115A of the CMV Rules for Agricultural Tractors (fitted with diesel engines), it is certified that the EICHER 485 TRACTOR, fitted with Eicher 398 ED diesel engine and its variant* manufactured by M/s Eicher Tractors (A Unit of TAFE Motors & Tractors Ltd. A Wholly owned subsidiary of TAFE), Plot No. 1, Sector D, Industrial Area, Mandideep – 462 046, Distt. Raisen(M.P.), complies with the provisions of Central Motor Vehicle Rules, 1989 (As amended up to date) and as detailed in Annexure-A. The details of coding system along with the location of chassis No., engine No. and coding for the month & year of production of the Tractor as submitted by the manufacturer is enclosed as Annexure-B.

2. The brief technical specification of the said Tractor and its variant(s)* is/are enclosed as Annexure-C.

*Variant: None

N.B: i) This certificate is issued in pursuance of Gazette Notification No. GSR-111(E) dated the 10th February, 2004 and GSR 176(E) dated 05.03.2004, applicable w.e.f. 10.08.2004 and Gazette Notification No. GSR 165 (E) dated 09.03.2005 & GSR 206 (E) dated 01.04.2005, being made applicable w.e.f. 01.10.2005.


iii) This certificate is issued for the purpose of registration only.

(R.K. SINGHAI)
Senior Test Engineer
Head of Test Laboratory

(S.C. JAIN)
DIRECTOR
Head of the Testing Institute
(Authorised Signatory)
The **EICHER 485 TRACTOR**, fitted with Eicher 398 ED diesel engine has been tested/inspected and its documents have been verified for compliance to following CMV Rules and found to be complying:

<table>
<thead>
<tr>
<th>Rule No.</th>
<th>Title</th>
<th>Sub Rules</th>
</tr>
</thead>
<tbody>
<tr>
<td>50</td>
<td>Form and manner of display of registration marks on motor vehicles</td>
<td>(4) &amp; (5)</td>
</tr>
<tr>
<td>93A</td>
<td>Overall dimensions of Motor Vehicles</td>
<td>(1), (2), (4), (5) &amp; (7)</td>
</tr>
<tr>
<td>94</td>
<td>Condition of tyres</td>
<td>(1), (2) &amp; (3)</td>
</tr>
<tr>
<td>95 &amp;</td>
<td>Size and Ply rating of tyres</td>
<td>(1), (2) &amp; (5)</td>
</tr>
<tr>
<td>95A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>96 C</td>
<td>Brakes</td>
<td></td>
</tr>
<tr>
<td>98 B</td>
<td>Steering gears</td>
<td>(1), (2) &amp; (3)</td>
</tr>
<tr>
<td>99</td>
<td>Forward and Backward motion</td>
<td>--</td>
</tr>
<tr>
<td>108</td>
<td>Use of red, white or blue lights</td>
<td>(1)</td>
</tr>
<tr>
<td>111</td>
<td>Prohibition of spot lights etc.</td>
<td>--</td>
</tr>
<tr>
<td>112</td>
<td>Exhaust gases</td>
<td>--</td>
</tr>
<tr>
<td>113</td>
<td>Location of exhaust pipes</td>
<td>--</td>
</tr>
<tr>
<td>115-A</td>
<td>Emission of smoke, vapours etc. from Agricultural tractor as per Bharat (Trem) Stage-III norms</td>
<td>(2), (3) &amp; (5)</td>
</tr>
<tr>
<td>117</td>
<td>Speedometer (Engine rpm cum-hour meter)</td>
<td>(1)</td>
</tr>
<tr>
<td>119</td>
<td>Horns</td>
<td>(1) &amp; (2)</td>
</tr>
<tr>
<td>120</td>
<td>Silencers</td>
<td>(1) &amp; (3)</td>
</tr>
<tr>
<td>121</td>
<td>Painting of Motor Vehicles</td>
<td>(1)</td>
</tr>
<tr>
<td>122</td>
<td>Embossment of Chassis Number, Engine Number and date of manufacture</td>
<td>(1) &amp; (2)</td>
</tr>
<tr>
<td>124A</td>
<td>Safety standards of components</td>
<td>(1), (2), (3), (4), (5), (6) &amp; (7)</td>
</tr>
<tr>
<td>125</td>
<td>Safety belt, collapsible steering column, autodipper &amp; padded dash boards</td>
<td>(2)</td>
</tr>
</tbody>
</table>
### Table 11 of AIS:007

Details of location of Chassis number and code for month and year of manufacture as per rule 122 of CMVR.

<table>
<thead>
<tr>
<th>Name of the Vehicle Manufacturer &amp; Address</th>
<th>Eicher Tractors</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A Unit of TAFE Motors &amp; Tractors Ltd.</td>
</tr>
<tr>
<td></td>
<td>(A Wholly owned subsidiary of TAFE)</td>
</tr>
<tr>
<td></td>
<td>• Plot No 1, Sector -D, Industrial Area, MANDIDEEP –462046, Distt Raisen(M.P)</td>
</tr>
</tbody>
</table>

| Name of the basic model                           | 485 |
| Name of Variants, if any                          | None |
| Place of Embossing or etching the Chassis Number (Supporting details by drawing or pictures may be provided if necessary) | (View from Driver’s Seat) |
|                                                  | Location of Engine / Chassis No is on a plate riveted to RHS mudguard |
|                                                  | Punching of Engine No on LHS of engine crank case |
|                                                  | Punching of Chassis Number on RHS of Front Axle |

### Chassis Code for month and year of production

<table>
<thead>
<tr>
<th>Code for month &amp; Year of production:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Month/year</td>
</tr>
<tr>
<td>--------------</td>
</tr>
<tr>
<td>January, 96</td>
</tr>
<tr>
<td>February, 96</td>
</tr>
<tr>
<td>March, 96</td>
</tr>
<tr>
<td>April, 96</td>
</tr>
<tr>
<td>March, 2004</td>
</tr>
<tr>
<td>April, 2004</td>
</tr>
<tr>
<td>May, 2004</td>
</tr>
<tr>
<td>July, 2005</td>
</tr>
</tbody>
</table>

Position of the code for month/year of production in the Chassis number: Min 5 mm

Height of the Chassis number: Over 5 mm

<table>
<thead>
<tr>
<th>Manufacturer/Applicant</th>
<th>Document No, if any Revision status</th>
<th>Testing Agency</th>
</tr>
</thead>
<tbody>
<tr>
<td>Signature: Anil Sharma</td>
<td>Make -EICHER TRACTORS &amp; Model of tractor: 485</td>
<td>CFMT&amp;TI, Budni(M.P)</td>
</tr>
<tr>
<td>Name:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation: Head –PD</td>
<td></td>
<td></td>
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<tr>
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<tr>
<td>Name:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation: Sr. Test Engr.</td>
<td></td>
<td></td>
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<tr>
<td>Date:</td>
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</table>
GOVERNMENT OF INDIA
CENTRAL FARM MACHINERY TRAINING & TESTING INSTITUTE
MIN. OF AGRI., (DEPT. OF AGRI. AND CO-OPN.)
TRACTOR NAGAR, P.O. BUDNI (M.P.) 466 445
BRIEF TECHNICAL SPECIFICATIONS FOR AGRICULTURAL / OTHER
TRACTORS
(To be submitted by the Applicant/Manufacturer to testing Agency in quadruplicate,)

1.0 GENERAL DESCRIPTION ABOUT MANUFACTURER / APPLICANT:
1.1 Name of tractor Manufacturer: Eicher Tractors
Address of Manufacturer: (A Unit of TAFE Motors & Tractors Ltd.
A Wholly owned subsidiary of TAFE)
Plot # 1, sector D Industrial Area
Mandideep 462046 Distt. Raisen (MP)
Telephone Number (s): (07480) 233680 - 84
Fax Number (s): 07480-203697 - 98
E mail Address: etb@tmtl.co.in
Website:

1.2 Name of Applicant, if other than manufacturer:
Address of applicant:
Telephone Number (s):
Fax Number (s):
E mail Address:
Website:

2.0 BRIEF TECHNICAL SPECIFICATION OF TRACTOR:
2.1 Agricultural Tractor / Other Tractor:
Make: EICHER TRACTORS
Model: 485
Type: Four-wheel general-purpose agricultural tractor.
Variant(s) if any (please give brief description of variants separately):
Chassis No.
Serial Number:
Year of manufacture (attach coding system letter also):
Attached Table No 11 ---AIS :007
Max. PTO power, kW @ rpm: 27.9 kW @ 2150 ± 30 rpm (declared value)

<table>
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<td></td>
</tr>
<tr>
<td>Name: Anil Sharma</td>
<td>Sheet No. Page 1 of 7</td>
<td>Name: R.K. SINGHAL</td>
</tr>
<tr>
<td>Designation: Head -Product Development</td>
<td></td>
<td>Designation: Sr. Test Engr.</td>
</tr>
<tr>
<td>Date:</td>
<td></td>
<td>Date:</td>
</tr>
</tbody>
</table>
3.0 Prime Mover for the Tractor:

Make: Eicher
Model: 398 ED
Type: Four stroke, Air cooled, Direct injection, Diesel Engine

Serial Number: S11727225671
Bore / stroke, mm (apa): 100 / 125
Capacity (cc): 2945
No. of cylinders: Three
Max engine output, kW @ rpm: 31.30 kW @ 2150 ± 25 rpm
Rated engine output, kW @ rpm: 31.3 kW @ 2150
Arrangement of valves: Overhead

3.1 Air Cleaner:
Nos.: One
Location: In front of engine under the bonnet
Type: Oil Bath

3.2 Cooling System:
Type: Air cooled
Radiator cap pressure marking, kPa (kgf/cm²): NA

3.3 Fuel System:
Type: Gravity & force feed

3.3.1 Fuel filter(s):
Make: MICO, LIC BOSCH
Type: Primary & Secondary both Paper element
Number(s): Two

3.3.2 Fuel feed pump:

<table>
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</thead>
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<td>Name: Anil Sharma</td>
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<td></td>
</tr>
<tr>
<td>Designation: Head – Product Development</td>
<td>Sheet No. Page 2 of 7</td>
<td></td>
</tr>
<tr>
<td>Date:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name: R.K. SINGHAI</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Designation: Sr. Test Engr.</td>
<td>29/01/2005</td>
<td></td>
</tr>
</tbody>
</table>
3.3.3 Fuel Injection Pump:
- Make
- Model / Group Combination No.
- Type
- Serial number

3.3.4 Governor:
- Make
- Model/group combination No.

3.3.5 Fuel tank:
- Material
- Location
- Capacity (l)

3.4 Lubrication System:
- Type
- No. & type of oil filter (s)

3.5 Clutch:
- Type
- No. of plate (s)
- Main
- PTO

3.6 Gear box:
- Make
- Model & identification no., if any
- Type

3.6.2 Range of speeds, (kmph):
- Forward
- Reverse

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</table>

Sheet No. Page 3 of 7
3.7 Steering:
Make
Type
Steering wheel dia., (mm)
Location of steering wheel
Steered axle
Minimum turning diameter,( m)

3.8 Wheel equipment & tyres:
3.8.1 Front:
Tyre size & ply rating
Track width range ,(mm)
Recommended tyre pressure for
road work, kPa (kgf/cm²)
Optional tyre size & ply rating

3.8.2 Rear:
Tyre size & ply rating
Track width range ,mm
Recommended tyre pressure for
road work, kPa (kgf/cm²)
Optional tyre size & ply rating

3.9 Brakes:
3.9.1 Service brake:
Type (describe briefly )
Location
Method of operation

3.9.2 Hand / Parking brake:
Type and brief description
Location
Method of operation

3.10 Electrical system of tractor:
System voltage,( V)
Terminal earthed

Manufacturer/Applicant

Document No, if any
Revision status

Testing Agency

Signature : Anil Sharma
Name : Anil Sharma
Designation : Head – Product Development
Date :

Sheet No. Page 4 of 7

Signature : R.K. SINGHAI
Name : R.K. SINGHAI
Designation : Sr. Test Engr.
Date : 29/11/97
3.10.1 Battery:
Type
- Number(s)
- Capacity and rating
Lead acid
One
12V, 75 Ah at 20 hours discharge rate

3.10.2 Generator (Alternator/Dynamo):
Type
Max. output,( W)
Alternator
12 Volt, 23 Amps.

3.10.3 Starter:
Type
Max power input, (kW)
Pre-engaging, solenoid operated
12V, 2.7 kW

3.10.4 Head Lights:
- Make
- Numbers
- Wattage of bulbs, (W)
- Location
- Colour
Neolite, (Bulbs-Halonix)
Two
12V, 60/55 W
In front of Bonnet
White

3.10.5 Parking Light(s):
Front:
- Make
- Number(s)
- Wattage of bulbs, (W)
- Location
- Colour
HiLux, (Bulbs-Usha)
Two
12V, 5 W
Front side of both mudguards
White

Rear:
- Make
- Number(s)
- Wattage of bulbs, (W)
- Location
- Colour
HiLux, (Bulbs-Usha)
Two
12V, 5 W
Rear side of both mudguards
Red

3.10.6 Turn indicator light(s):
Front:
- Make
- Number(s)
- Wattage of bulbs, (W)
- Location
- Colour
HiLux, (Bulbs-Usha)
Two
12V, 21 W
Front side of both mudguards
Amber

Rear: