

No. C3/ 6567/TC/2009

Transport Commissionerate  
Kerala, Thiruvananthapuram  
Dated: 02.04.2009

From

The Transport Commissioner  
Thiruvananthapuram.

To

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

Sir,

Sub: M.Vs.Dept - Approval for Registration of BMW 320i with AT, BMW 325i with AT & BMW 320d with AT manufactured by M/s BMW India Pvt. Ltd - Copy of certificates forwarding reg.

Ref:- 1. Letter dated 18.03.2009 from M/S BMW India Pvt. Ltd, Gurgaon

2. Certificate No. CADN 0062 dtd 01.12.2008 of iCAT

3. Certificate No. CADN 0063 dtd 09.12.2008 of iCAT

4. Certificate No. CADN 0061 dtd 01.12.2008 of iCAT

M/s BMW India Pvt. Ltd in their letter dated 18.03.2009 has requested to grant approval for the registration of following BMW Vehicles manufactured by BMW India Pvt. Ltd..

- 1) BMW 320i with Automatic Transmission
- 2) BMW 325i with Automatic Transmission
- 3) BMW 320d with Automatic Transmission

The International Centre for Automotive Technology has granted approval to above vehicles and certified that the vehicles comply with the CMV Rules 1989. The details of iCAT certificates is being communicated to your office by E-MAIL.

All the Registering Authorities and Additional Registering Authorities are directed to register the above vehicles subject to the compliance of CMV Rules, 1989 as amended up-to-date. They are also directed to verify the compliance of provision of Act & Rules other than those mentioned in Annexure I & Annexure IA of the iCAT Certificate. The applicant is directed to produce the copy of iCAT certificate at the time of registration of vehicle

Yours faithfully,

Sd/-

Senior Deputy Transport Commissioner  
& Secretary, STA  
For Transport Commissioner

Copy to: The applicant for information  
Approved for issue

  
Senior Superintendent



# INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY

[A Division of NATRiP Implementation Society (NATIS), Govt. of India]

Plot No.-26, Sector-3, HSIIDC, IMT-Manesar Gurgaon-122 050, Haryana (India)  
Phone : +91-124 4586111 • Fax : +91-124 2290005 • E-mail : director@icat.in • Website : www.icat.in

C A D N 0062

Date: 1<sup>st</sup> December 2008

## CERTIFICATE

Cert	Brief	Drg	Total
3	4	1	8 Pgs

### FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES.

1. In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documental verification/ necessary testing was carried out, on the following **base model**, submitted by the vehicle manufacturer referred below:

This certificate supercedes					Documental Reference	Vehicle Manufacturer
C	A	C	N	0025	iCAT/VEL/BMW-320i/TA/CSC-112/2007-054 dt.20.11.2007	M/S BMW India Pvt. Ltd., 7 <sup>th</sup> Floor, Tower B, Building No.8, DLF Cyber City, Phase II, Gurgaon, Haryana. Plant: M/s BMW India Pvt.Ltd.,No.36,1 <sup>st</sup> Cross,1 <sup>st</sup> Main Road of 2 <sup>nd</sup> Avenue, Mahindra World City, Natham Sub Post, Chengalpet, Kancheepuran Dist.,Tamilnadu-603002.
dt. 04.12.2007						
Gasoline Engine Model		Power	cm <sup>3</sup>	Engine Manufacturer		
N46B20		115 kW @ 6400 rpm	1995	M/s BMW Hams Hall Motoren GmbH, Canton Lane, Hams Hall,B-46 1GB,England. Plant: England		
BASE MODEL				TYPE	Seating Capacity (Incl. Driver)	GVW, kg
BMW 320i with Automatic Transmission				Passenger Car	5 Persons	1910

- 1a. Brief technical specifications (No. BMW 320i LCI rev 0) of the vehicle model as declared by the vehicle manufacturer, are enclosed with this certificate. Detailed specifications (No. BMW 320i LCI rev 0) of the vehicle model, are also separately issued to the vehicle manufacturer.
2. It is certified that the above base model complies with the provisions of the Central Motor Vehicles Rules, 1989, as amended up-to-date including following requirements, (as detailed at ANNEXURE-I & IA):

Standards	Notification	Date	Effective From	Applicable CMVR
Bharat Stage – II	GSR 77(E)	31.01.2000	01.04.2000	115 (11) (A)
Bharat Stage – III (For Notified Areas)	GSR 927(E)	05.12.2003	01.04.2005	115 (13)
Idling CO & HC	GSR 686(E)	20.10.2004	01.04.2005	115 (14) (A)
Passby Noise Limits	GSR 111(E)	10.02.2004	01.10.2004	115 (2) (I)
Safety Components	GSR 400(E)	31.05.2002	Notified dates	ANNEXURE-I
	S. O. 1365(E)	13.12.2004		ANNEXURE-IA
	S.O. 451(E)	30.03.2005		
	S.O 1431(E)	20.08.2007		
Tyres/Brakes/Lamps/Reflex Reflectors	GSR 589(E)	16.09.2005	01.04.2006	95(1) / 96(4) / 104(4) / 105(1)

3. This Certificate is issued as per CMV Rule 126, to establish compliance with the Central Motor Vehicles Rules, 1989, and shall not be construed as a certificate of compliance to any rules other than those listed in ANNEXURE-I & IA. Compliance to these rules has been verified based on the use of specific components / parts / assemblies etc. details of which are given in the detailed specifications duly endorsed by ICAT as mentioned at Para. 1a above. It is the vehicle **manufacturer's** responsibility to ensure fitment of same components / parts / assemblies etc. before submission of the vehicle for registration.
4. Further ICAT issues Type Approval Certificates for vehicles / components / parts / assemblies etc. based on the documents produced / submitted by the customer and on these basis, the vehicles are examined and if approved, the certificate is issued. ICAT is in no way responsible for any misuse of copying of any design / type / system in connection with entire vehicle / components / parts and assemblies. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the customer and ICAT shall not be liable for any claims or damages, made by the party, whatsoever, the customer shall alone be liable for the same, and undertakes to indemnify ICAT in this regard. Further, the ICAT has the right to initiate cancellation / withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ICAT. The appropriate local courts at Gurgaon shall have the jurisdiction in respect of any dispute, claim or liability arising out of this certificate / Report.

### AUTHORISED SIGNATORIES,

*Vijayanta Ahuja*  
**VIJAYANTA AHUJA**  
PROJECT ENGINEER



*Saurabh Dalela*  
**SAURABH DALELA**  
DIRECTOR



## BRIEF TECHNICAL SPECIFICATIONS FOR MOTOR VEHICLE

## Manufacturer's name and address

BMW India Pvt.  
Ltd., 7th Floor, Tower  
B  
Building No.8, DLF  
Cyber City  
Phase II Gurgaon  
Haryana  
India - 122002

BMW India Pvt Ltd.  
Plant: No.36, 1st Cross,  
1st Main Rd. Of 2nd.  
Avenue,  
Mahindra World City,  
Natham Sub post,  
Chengalpet,  
603002,  
Kancheepuram District  
Tamilnadu

Importer's Name and address  
(in case of CBU)

n.a.

Country of origin, if imported

n.a.

## Vehicle Data

Basic model  
Type / Description  
Category of the vehicle (as per AIS:053)  
Variant(s)  
Type (Brief description)  
Category of variants

BMW 320i with Automatic Transmission  
Passenger car with catalytic converter  
M1  
n.a.  
n.a.  
n.a.

## Engine

Make and country of origin  
(if imported)  
Model  
Type

BMW, England

Bore x stroke, mm  
No. of cylinders  
Displacement  
Compression ratio  
Max. Engine output, kW@rpm  
Max. Torque, Nm @rpm  
Air cleaner type

N46B20  
4 Stroke, 4 Cylinder, Inline, water cooled,  
Spark ignition, Map controlled ignition, DI  
84,0 x 90,0  
4  
1995 cm<sup>3</sup>  
10.50±0.30  
115 kW at 6400rpm  
200 Nm at 3600 rpm  
Paper filter, dry

## Clutch

Type

Hydraulic torque converter

## Gear box

Make & model

GA6L45R (GM6)

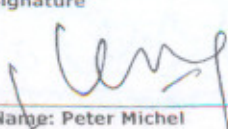
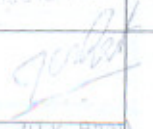
Manufacturer: BMW India Pvt Ltd	Document No : BMW 320i LCI rev 0	Test Agency : ICAT	Centre for Automotive Technology
Signature 		Signature 	
Name: Peter Michel	Sheet No. 1	Name (U.K. Bhat)	
Designation: GM	Date 07.05.2008	Designation Sr. Asst. Director	
		Date of Issue	Page no. 1 of 4

Table 7 of AIS:007 (Revision 3)

1 - DEC 20

Type

ICAT/CMVR

2008

automatic, 6-speed

Electronic-hydraulically control. Control unit with intersection to the Digital Motor Electronics DME.

No. of gears

6

Gear ratio

1<sup>st</sup>

4.07

2<sup>st</sup>

2.37

3<sup>st</sup>

1.55

4<sup>st</sup>

1.16

5<sup>st</sup>

0.85

6<sup>st</sup>

0.67

Reverse

3.20

Drive Axle (Front / Rear / All)

Rear

Front axle ratio

n.a.

Rear axle ratio

3.91

**Steering**

Type / Description

Power assisted – Hydraulic  
See sketch 07LG-0090-02

Steering wheel diameter, mm

375

Ratio

see attachment: 07LD-0390-01  
53 mm/rev**Frame**

Long member size, mm

n.a.

Number of cross members

n.a.

**Suspension**

Type / Description

Coil spring, steel

Spring

Coil spring

Anti-roll bar

Yes

Shock absorbers

Dual tube shock absorbers

**Brake**

Service brake (Brief description)

Hydraulic, Vacuum assisted brake, foot operated with mechanical-hydraulic transmission

Auto Slack Adjuster Fitted (Yes / No / Optional)

Yes

ABS Fitted (Yes / No / Optional)

Yes

Front (Disc / Drum)

Disc brake

Rear (Disc / Drum)

Disc brake

Total breaking area , cm<sup>2</sup>front: 105.6 cm<sup>2</sup> / wheelrear: 58.2cm<sup>2</sup> / wheel

Parking brake

Mechanical, hand operated Drum brake at rear axle


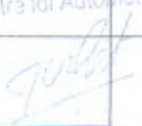
Manufacturer: BMW India Pvt Ltd	Document No : BMW 320i LCI rev 0	Test Agency : ICAT International Centre for Automotive Technology	
Signature 		Signature 	
Name: Peter Michel	Sheet No. 2	Name Sr. Asst. Engineer	
Designation: GM	Date 07.05.2008	Designation	
		Date of Issue	Page no. 2 of 4



Table 7 of AIS:007 (Revision 3)

Secondary brake

Mechanical/unaffected single circuit of the service braking device

ICAT/CMVR

2008

118

1 - DEC 2008

**Wheels and tyres**

Wheel rim size	7Jx16 EH2P IS31 (Styling 282)
Tyre size and designation including ply rating	205/55 R16 91V
Speed index	V
Load index / Load rating	91
Tyre type (radial / cross / Tube / Tubeless)	Radial, Tubeless, Type - Run Flat
Laden tyre pressure (front & rear), kg/cm <sup>2</sup>	Front axle 250 kPa +/- 100 kPa Rear axle 250 kPa +/- 100 kPa

**Electrical system**

System voltage, V	12
Battery rating, Ah	70-100
Wiper motor	Power operated
Wiping system (Brief description)	2 windscreen wipers driven by electric motor, Washer fluid delivered by electric pump through nozzles.

**Fuel tank**

Material	plastics
Capacity, l	61

**Dimensions**

Wheel base, mm	2760
Overall width, mm	1817
Overall length, mm	4520
Overall height, mm	1421
Front track, mm	1506
Rear track, mm	1535
Min. ground clearance, mm	144
Cargo box dimensions, mm	n.a.
Load body platform area	n.a.

**Weights**

Maximum GWV, kg (for rigid vehicles)	1910
Maximum GCW, kg (for articulated / combination vehicles)	n.a.
Maximum FAW, kg	860
Maximum RAW, kg	1050
Kerb weight with 90% fuel (with spare wheel, tools, etc.), kg	1465
Max. recommended gradeability (Stand-start) _ in degrees	27°

Manufacturer: BMW India Pvt Ltd	Document No : BMW 320i LCI rev 0	Test Agency: ICAT Centre for Automotive Technology
Signature		Signature
Name: Peter Michel	Sheet No. 3	Name (V.K. Bhat)
Designation: GM	Date 07.05.2008	Designation Gr. Asst. Director
		Date of Issue
		Page no. 3 of 4



# INTERNATIONAL CENTRE FOR AUTOMOTIVE TECHNOLOGY

[A Division of NATRiP Implementation Society (NATIS), Govt. of India]

Plot No.-26, Sector-3, HSIIDC, IMT-Manesar Gurgaon-122 050, Haryana (India)

Phone : +91-124 4586111 • Fax : +91-124 2290005 • E-mail : director@icat.in • Website : www.icat.in

C	A	D	N	0063
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Date: 09<sup>th</sup> December 2008

## CERTIFICATE

Cert	Brief	Drg	Total
3	4	1	8 Pgs

### FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES.

- In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documentary verification/ necessary testing was carried out, on the following **base model**, submitted by the vehicle manufacturer referred below:

This certificate supersedes					Vehicle Manufacturer		
C	A	D	N	0031	M/S BMW India Pvt. Ltd., 7 <sup>th</sup> Floor, Tower B, Building No.8, DLF Cyber City, Phase II, Gurgaon, Haryana, India -122002.	Plant: M/s BMW India Pvt. Ltd., No.36, 1 <sup>st</sup> Cross, 1 <sup>st</sup> Main Road of 2 <sup>nd</sup> Avenue, Mahindra World City, Natham Sub Post, Chengalpet, Kancheepuran, Dist. Tamilnadu-603002.	
dt. 25.01.2008							
Documental Reference					With CKD kits from M/s Bayerische Motoren Werke AG, 80788 München, Germany		
iCAT/VEL/BMW-325i/TA/CSC-170/2008-063 dt.21.01.2008							
Gasoline Engine Model		Power		cm <sup>3</sup>	Engine Manufacturer		
N52		158 kW @ 6500 rpm		2497	M/s BMW AG München, Petuelring 130, D-80788, München, Germany Plant: München, Germany		
BASE MODEL					TYPE	Seating Capacity (Incl. Driver)	GVW, kg
BMW 325i with Automatic Transmission					Passenger Car	5 Persons	1980

- Brief technical specifications (No. BMW 325i LCI rev 0) of the vehicle model as declared by the vehicle manufacturer, are enclosed with this certificate. Detailed specifications (No. BMW 325i LCI rev 0) of the vehicle model, are also separately issued to the vehicle manufacturer.
- It is certified that the above base model complies with the provisions of the Central Motor Vehicles Rules, 1989, as amended up-to-date, including following requirements, (as detailed at ANNEXURE-I & IA):

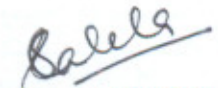
Standards	Notification	Date	Effective From	Applicable CMVR
Bharat Stage - II	GSR 77(E)	31.01.2000	01.04.2000	115 (11) (A)
	GSR 927(E)	05.12.2003	01.04.2005	115 (13)
Bharat Stage - III (For Notified Areas)	GSR 686(E)	20.10.2004	01.04.2005	115 (14) (A)
Idling CO & HC	GSR 111(E)	10.02.2004	01.10.2004	115 (2) (i)
Passby Noise Limits			01.04.2005	120 (2)
Safety Components	GSR 400(E)	31.05.2002	Notified dates	ANNEXURE-I
	S. O. 1365(E)	13.12.2004		ANNEXURE- IA
	S.O. 451(E)	30.03.2005		
	S.O 1431(E)	20.08.2007		
Tyres/Brakes/Lamps/Reflex Reflectors	GSR 589(E)	16.09.2005	01.04.2006	95(1) / 96(4) / 104(4) / 105(1)

- This Certificate is issued as per CMV Rule 126, to establish compliance with the Central Motor Vehicles Rules, 1989, and shall not be construed as a certificate of compliance to any rules other than those listed in ANNEXURE-I & IA. Compliance to these rules has been verified based on the use of specific components / parts / assemblies etc. details of which are given in the detailed specifications duly endorsed by iCAT as mentioned at Para. 1a above. It is the vehicle **manufacturer's** responsibility to ensure fitment of same components / parts / assemblies etc. before submission of the vehicle for registration.
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### AUTHORISED SIGNATORIES,

  
U. K. BHAT  
Sr. ASSISTANT DIRECTOR



  
SAURABH DALELA  
DIRECTOR



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[A Division of NATRIP Implementation Society (NATIS), Govt. of India]

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C A D N 0061

Date: 1<sup>st</sup> December 2008

## CERTIFICATE

Cert	Brief	Drg	Total
3	4	1	8 Pgs

### FOR COMPLIANCE TO THE CENTRAL MOTOR VEHICLES RULES.

- In order to establish compliance to the provisions of CMVR, 1989, applicable as on date, documental verification/ necessary testing was carried out, on the following **base model**, submitted by the vehicle manufacturer referred below:

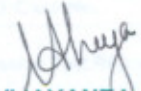
This certificate supercedes					Documental Reference	Vehicle Manufacturer							
<table border="1"><tr><td>C</td><td>A</td><td>D</td><td>N</td><td>0009</td></tr></table>					C	A	D	N	0009	iCAT/VEL /BMW-320D/TA/CSC-122/2007-055 dt.20.11.2007	M/S BMW India Pvt. Ltd., 7 <sup>th</sup> Floor, Tower B, Building No.8, DLF Cyber City, Phase II, Gurgaon, Haryana. Plant: M/s BMW India Pvt. Ltd., No.36,1 <sup>st</sup> Cross,1 <sup>st</sup> Main Road of 2 <sup>nd</sup> Avenue, Mahindra World City, Natham Sub Post, Chengalpet, kancheepuran Dist.Tamilnadu-603002.		
C	A	D	N	0009									
Dt: 22.05.2008													
Diesel Engine Model		Power		cm <sup>3</sup>	Engine Manufacturer								
N47D20		130 kW @ 4000 rpm		1995	M/s BMW Motoren GmbH, Hinterberstraße 2, A-4400 Steyr, Austria. Plant: Austria.								
BASE MODEL					TYPE	Seating Capacity (Incl. Driver)		GVW, kg					
BMW 320d with Automatic Transmission					Passenger Car	5 Persons		1965					

- Brief technical specifications (No. BMW 320d LCI rev 0) of the vehicle model as declared by the vehicle manufacturer, are enclosed with this certificate. Detailed specifications (No. BMW 320d LCI rev 0) of the vehicle model, are also separately issued to the vehicle importer.
- It is certified that the above base model complies with the provisions of the Central Motor Vehicles Rules, 1989, as amended up-to-date, including following requirements, (as detailed at ANNEXURE-I & IA):


Standards	Notification	Date	Effective From	Applicable CMVR
Bharat Stage – II	GSR 77(E)	31.01.2000	01.04.2000	115 (11) (A)
	GSR 927(E)	05.12.2003	01.04.2005	115 (13)
Bharat Stage – III (For Notified Areas)	GSR 686(E)	20.10.2004	01.04.2005	115 (14) (A)
Free Acceleration Smoke	GSR 111(E)	10.02.2004	01.10.2004	115 (2) (ii)
Passby Noise Limits			01.04.2005	120 (2)
Safety Components	GSR 400(E)	31.05.2002	Notified dates	ANNEXURE-I
	S. O. 1365(E)	13.12.2004		ANNEXURE- IA
	S.O. 451(E)	30.03.2005		
	S.O 1431(E)	20.08.2007		
Tyres/Brakes/Lamps/Reflex Reflectors	GSR 589(E)	16.09.2005	01.04.2006	95(1) / 96(4) / 104(4) / 105(1)

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### AUTHORISED SIGNATORIES

  
VIJAYANTA AHUJA  
PROJECT ENGINEER



  
SAURESH DALELA  
DIRECTOR

Page 1 of 3



### 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 :	BMW India Pvt Ltd. 7th Floor, Tower B, Building No 8, DLF Cyber City Phase II, Gurgaon Haryana India - 12202
Name of the basic model :	BMW 320d with Automatic Transmission
Name of Variants, if any :	
Place of Embossing or etching the Chassis Number (Supporting details by drawing or pictures may be provided if necessary)	On the right-hand side in the engine compartment

### Code for month and year of production:

Code for month of production:		Code for year of production:	
Month	Code	Year	Code
January	A	2001	1
February	B	2002	2
March	C	2003	3
April	D	2004	4
May	E	2005	5
June	F	2006	6
July	G	2007	7
August	H	2008	8
September	I	2009	9
October	K	2010	A
November	L	2011	B
December	M	2012	C

Position of the code for month of production in the Chassis number :	On the left-hand side in the engine compartment
Position of the code for year of production in the Chassis number :	On the left-hand side in the engine compartment
Height of the Chassis number :	7 mm

### Example of Engine & Chassis No:

Chassis number

\* WBANX32030 CK97342 \*

Engine number

\* 84346724 \*

\* M7 \*

Code for month and year of manufacture

BMW part-nr. of the label

7 196 957

Manufacturer: BMW India Pvt Ltd	Document No : BMW 320d LCI rev 0	Test Agency : iCAT International Centre for Automotive Technology	
Signature		Signature	
Name: Peter Michel	Sheet No. 1	Name: (U.K. Bhat)	
Designation: GM	Date 09.05.2008	Designation: Sr. Asst. Director	
		Date of Issue	Page no. 1 of 1