



Indian Electrical & Electronics Manufacturer's Association  
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Ref. BLR / RM / 2024/ 01

16<sup>th</sup> March 2024**Shri N Suryanarayana**

Scientist-F  
Central Marks Department-III,  
Bureau of Indian Standards,  
9, Bahadur Shah Zafar Marg,  
New Delhi – 110002.

Dear Mr. N Suryanarayana,

**Sub : Request for meeting for IEEMA Rotating Division Members to discuss on the technical issues and also apprise you on the non-compliance of certification.**

Indian Electrical and Electronics Manufacturers' Association (IEEMA), is the apex representative body of about 1,000+ manufacturers of electrical equipment, professional electronics and allied equipment in India. Running in its 76<sup>th</sup> year of service, IEEMA members represent a wide range of electrical, industrial electronics and allied products, encompassing the entire value chain of the sector from generation, transmission, distribution including Renewable Energy, E-Mobility and Storage value chain and downstream to the point of consumption of electricity; thereby covering finished products, parts and components, systems and services. The combined annual turnover of members is in excess of USD 50 billion.

We understand from members of our Rotating Machines Division that few manufacturers are selling their products without BIS license or minimum IE2 efficiency levels/ without ISI marking (Annexure D). It is therefore requested to the bureau to kindly take cognizance of the issue and ensure that compliance/implementation of the Quality Control Order.

We also request a meeting at the earliest convenience to discuss on the non-compliance cases and also to discuss on few technical issues as given in **Annexure-A & B** for information. An advance intimation of 3 to 4 days time will help our members to plan their travel for this meeting.

Thanking you once again and Looking forward to your kind confirmation.

Best Regards,

Charu Mathur  
Director General

## Annexure A

Following has been observed as issues with **PM/ IS 12615/ 2/ MAY 2019**.

1. Under Annex B “List of Test Equipment”, there is a list of the Major test equipment required to test as per the Indian Standard.

Sl. No	Test Equipment	Tests Used in with Clause reference	Type of Test	Comments
2	Digital Tachometer	Cl 16.1.3, Cl 16.1.4, Cl 16.1.5	Routine	Manufacturer needs to have only one of these for testing and not both
10	Contact type Digital Tachometer	Cl 16.1.3, Cl 16.1.4, Cl 16.1.5	Routine	
6	Test Bench comprising of cradle mounted dynamometer for torque method testing purpose	Cl. 16.4.1, Cl 16.2.3	Type	a. Cl 16.4.1 does not exist in the standard and needs to be removed b. This equipment need not be available with the manufacturer as exactly specified as it is a Type test where Sub-Contracting is permitted (Refer Table 1). So rejecting an application on lack of this equipment contradicts the Test Equipment Requirement as per Table 1
7	Weighing Load Cell	Cl 16.2.3	Type	This equipment need not be available with the manufacturer as exactly specified as it is a Type test where Sub-Contracting is permitted (Refer Table 1). So rejecting an application on lack of this equipment contradicts the Test Equipment Requirement as per Table 1



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2. As per Table 1, the following points are observed.

Cl 12.2 - Pull-up torque - This is not a required test although when a motor is given to a BIS approved Lab, the test is performed. This clause needs to be removed from Table 1. The clause 12.2 is as follows:

“Unless otherwise specified, the minimum pull-up torque of motors, at rated voltage and frequency shall be at least 0.5 times the rated full load torque”.

This suggests that this detail is agreed between manufacturer and purchaser and can be defined at any value. Hence it need not be required in Table 1.

Cl. 16.3.3 - Degree of Protection by Enclosure - Reference: IS/IEC 60034-5. As per the Table 1, this is a test which is mutually agreed between Manufacturer and Purchaser. However, Cl 5 itself implies that it is a mandatory test.

The extract from BIS site as of 19/7/2023 is given in Annexure B ([http://164.100.105.198:8096/bis\\_access/iswise\\_query\\_v2.asp?txtIS=60034&View=View](http://164.100.105.198:8096/bis_access/iswise_query_v2.asp?txtIS=60034&View=View)). As it can be seen there are only 2 labs approved for the said test that too upto frame 280. BIS today is demanding a certificate from one of these labs before a certificate can be issued for IS 12615:2018.

The currently approved labs for testing IS 12615:2018 is given in Annexure C ([http://164.100.105.198:8096/bis\\_access/iswise\\_query\\_v2.asp?txtIS=12615&View=View](http://164.100.105.198:8096/bis_access/iswise_query_v2.asp?txtIS=12615&View=View)). As noticed below, only Electrical and Research Development Association has even mentioned the clause 16.3.3 as an excluded test. When a motor is given to one of the labs listed below, one is required to pay an additional sum for the optional tests for a particular frame. When a test certificate is obtained from any of these labs, it is certified that all the clauses of IS 12615: 2018 is satisfied and there is no need for further testing. Since this is the case, why is Application processing Officer in some regional offices demanding that a test certificate needs to be procured with this optional clause adhered to before taking up the Application approval process. Some of the BIS regional offices are correctly not demanding the same and are issuing licenses if one of the Labs listed in Annexure C issue a certificate. If it is the stand that this clause has to be adhered to, then all BIS offices need to adhere to the same.

## Annexure B

**IS Number :- IS 60034 Part: 5 - Degrees of protection provided by internal design of rotating electrical machines(IP Code)-classification**

Sl No.	Name of the Recognized Laboratory	Lab CODE	Testing Charges	Remarks
1	<b>Central Institute of Mining and Fuel Research</b> Barwa Road Dhanbad -826015 Jharkhand Contact : Tel : 0326 229 6023 Fax :	5127821		(Lab of national repute and eminence, facilities of which are being utilized by BIS.)
2	<b>Karandikar Laboratories Pvt Ltd.</b> Gat No. 142, Boisar chillar Road , Boisar (East), Tal- Palghar Thane-401501 Maharashtra Contact : Shri Ajit Karandikar, Director Tel : 02525-284931/881 Fax : 022-28470126	7121526	IPXX for each center-height : Rs. 10,000/- for Frame- 63 to 100; Rs. 20,000/- for Frame- 112 to 180; Rs. 40,000/- for Frame- 200 to 280.	

## Annexure C

### LIST OF OUTSIDE RECOGNIZED LABORATORIES

**IS Number :- IS 12615 - INDUCTION MOTOR ENERGY EFFICIENT, 3 PHASE SQUIRREL CAGE**

Sl No.	Name of the Recognized Laboratory	Lab CODE	Testing Charges	Remarks
1	<b>Bharat Test House Pvt Ltd</b> 781, HSIC Industrial Estate, Rai  Sonepat-131001 Haryana Contact : Vaibhav Gupta, Director Tel : 9310314585 Fax : 0130-2367675	9137826	Rs.5500/- upto 3,7 kW, Rs.6250/- above 3.7 k W upto 7.5 kW, Rs.7750/- above 7.5 kW upto 11.0 kW, Rs.8900/- above 11.0 kW upto 15.0 kW, Rs.12500/- above 15.0 upto 20.0 kW, Rs.17500/- above 20.0 kW upto 25.0 kW, Rs.22500/- above 25.0 kW upto 30.0 kW, Rs.30000/- above 30.0 upto 37.0 Kw (5% Discount for BIS)	REVISED TESTING CHARGES W.E.F. 5-7-2021. Included w.e.f 29-07-2020
2	<b>Delhi Test House-2</b> Plot No.65, Phase-IV, Sector-57 HSIDC Industrial Area, Kundli Sonepat-131028 Haryana Contact : Sh. M.C. Goel, Director Tel : 09313318354 Fax : 0130-2116529	9138006	For BIS Samples:1.5 times of BIS Testing Charges and other upto 11Kw Rs.20,250/- Each Additional Kw Rs.1,000/-	Included w.e.f. 28-04-2022.
3	<b>Electrical Research &amp; Development Association</b> P.B. No. 760, ERDA Road, GIDC, Makarpura Industrial	7101125	Upto 5.5 kW Rs. 49,314/- ; 5.5 kW to 11 kW Rs. 55,303/- ; 11 kW to 22 kW Rs.	REVIED VERSION INCLUDED W.E.F. 27 March 2019. Scope restricted upto 110kW

	<p>Estate Vadodara-390010 Gujarat Contact : Dr. Satish H. Chetwani, Incharge Tel : 0265-2642942,964,377 Fax : 0265-2648382</p>		<p>79,920/- ; 22.1 kW to 45 kW : Rs. 1,06,788/- ; 45.1 kW to 75 kW : Rs. 1,31,838/- ; 75.1 to 110 kW : Rs. 1,666,571/-; Restricted to : Rs. 17,811.2 for upto 3.7kW; Rs. 17,107.8 for 3.7kW-7.5kW; Rs. 17,932.8 for 7.5 kW - 11kW; Rs.23,326.8 for 11 kW -15 kW/-; Rs. 26,608.5 for 15 kW -20 kW/-; Rs. 34,203.75for 20kW - 25kW; Rs. 35,553.75 for 25kW - 30kW; Rs. 16,950/- for 30kW - 35kW; Rs. 11,250/- for 35kW - 40kW; Rs. 11,250/- for 40kW - 45kW; Rs. 15,000/- for 45kW - 50kW; Rs. 15,000/- for 50kW - 60kW; Rs. 15,000/- for 60kW - 70kW; Rs. 18,000/- for 70kW - 100kW for BIS Samples</p>	<p>for 2, 4, 6 Pole Motors and upto 75kW for 8 Pole</p>
4	<p><b>Electronics and Quality Development Centre,</b> B 177/178, GIDC Electronics Estate Sector-25 Gandhinagar-382044</p>	7118234	<p>Rs.6,825/- From 0.37 to 5.5kW, Rs.8,550/- From 5.5 to 11kW, Rs.12,488/- From 11 to 19kW,</p>	<p>Capacity: 0.37 kW to 375 kW. Exclusions: Optional tests: Test for vibration severity of motor (Cl.16.3.1), Test for noise levels of</p>

	<p>Gujarat Contact : Mr. Rajesh D. Barhatt, Director Tel : 079-23287119/20/22 Fax : 079-23287121</p>		<p>Rs.15,413/- From 19 to 22 kW, Rs.16,463/- From 22 to 29.5kW, Rs.17,963/- From 29.5 to 33kW, Rs.18,788/- From 33 to 45kW, Rs.24,338/- From 45 to 75kW, Rs.33,600/- From 75 to 110kW, Rs.1,50,000/- From 110.1 to 200kW, Rs.1,87,500/- From 200.1 to 250kW, Rs.2,25,000/- From 250.1 to 300kW, Rs.3,00,000/- From 300.1 to 350kW, Rs.3,75,000/- From 350.1 to 375kW</p>	<p>motor (Cl.16.3.2), Test for degree of protection by enclosure (Cl.16.3.3), Over speed test (Cl.16.3.4), Temperature rise test at limiting values of voltage and frequency variation (Cl.16.3.5).</p>
5	<p><b>MSME Development Institute</b> 386, Patel Road Ramnagar Coimbatore-641009 Tamilnadu Contact : M. Sateesh Kumar, CEO Tel : 9443829389 Fax : 0422-2230426</p>	6105534	<p>Three phase energy efficient induction motors up to 3.7 KW-Rs.6000/- Above 3.7 KW &amp; upto 7.5 KW- Rs.7000/- Above 7.5 KW &amp; upto 11.0 KW-Rs.8400/- Above 11.0 KW &amp; upto 15.0 KW- Rs.9200</p>	<p>For ratings up to 15 KW.</p>
6	<p><b>NSIC Technical Services Centre</b> 80 Ft. Road, Near Bhavnagar Road Crossing, Aji Industrial Area</p>	7104734	Rs.30120/-	<p>REVISED VERSION Included w.e.f. 05.02.2019.</p>

	Rajkot-360003 Gujarat Contact : Shri Ram Kumar Yadav, DGM Tel : 0281-2387613,2387396 Fax : 0281-2387729			
7	<b>Scientific &amp; Industrial Testing &amp; Research Centre</b> 83 & 84, Avarampalayam Road, K.R. Puram P.O. Coimbatore-641006 Tamilnadu Contact : Sh.A.M. Selvaraj, Joint Director Tel : 0422-2562612,2560473 Fax : 0422-2562612	6104904	Rs.4950/-	Revised version of IS 12615:2018 is included in w.e.f. 21.01.2019.
8	<b>The National Small Industries Corporation Ltd</b> Technical Service Centre, Sector B-24, Gindy Industrial Estate, Ekkaduthangal Chennai-600032 Tamilnadu Contact : Shri N.K. Subramani, DGM Tel : 044-22251254 Fax : 044-22254500	6135404	Above 3.7 KW to 7.5 KW-Rs.4000/-, Above 7.5 KW to 11 KW-Rs.4200/-, Above 11 KW to 22 KW-Rs.4600/-, Above 22 KW to 45 KW-Rs.7500/-, Above 45 KW to 75 KW-Rs.10000/-, Above 75 KW to 110 KW-Rs.12000/-	Revised Version of IS 12615:2018 included w.e.f 21.12.2018. For ratings from 0.37 to 110 KW & For 2, 4 & 6 Poles



**Annexure D**

