

## B. From June 1,2001

| Class | Displacement (CC) | CO(g/kw-hr) | HC+NO <sub>x</sub> (g/kw-hr) |
|-------|-------------------|-------------|------------------------------|
| 1.    | ≤65               | 519         | 54                           |
| 2.    | >65 ≤99           | 519         | 30                           |
| 3.    | >99 ≤225          | 519         | 16.1                         |
| 4.    | >225              | 519         | 13.4                         |

C. Test method shall be as specified in SAE J 1088. Measurement mode shall be D1 cycle specified under ISO 8178 (Weighting Factor of 0.3 for 100 % load, 0.5 for 75% load and 0.2 for 50% load).

D. Following organizations shall test and certify the generator sets :-

- <sup>1</sup>[(i) Automotive Research Association of India, Pune.  
(ii) Indian Institute of Petroleum, Dehradun.  
(iii) Indian Oil Corporation, R&D Centre, Faridabad.  
(iv)]Vehicle Research Development Establishment, Ahmedbagar.  
<sup>2</sup>[(v)International Centre for Automotive Technology, Manesar (Haryana)]

These organizations shall submit the testing and certification details to the Central Pollution Control Board, annually. The Central Pollution Control Board may send the experts in the field to oversee the testing.

## 89 . NOISE STANDARDS FOR FIRE-CRACKERS

- A. (i) The manufacture, sale or of fire-crackers generating noise level exceeding 125 dB(AI) of 145dB(C) at 4 metres distance from the point of bursting shall be prohibited.
- (ii) For individual fire-cracker constituting the series (joined fire-crackers), the above mentioned limit be reduced by  $5 \log_{10} (N)$  dB, where N= number of crackers joined together.

<sup>1</sup> Renumbered as (i), (ii), (iii) and (iv) respectively by Rule 2(a) of the Environment (Protection) Second Amendment Rules, 2008 notified by G.S.R.280(E), dated 11.4.2008.

<sup>2</sup> Inserted by Rule 2(a), *ibid*.

B. The broad requirements for measurement of noise from fire-crackers shall be-

- (i) The measurements shall be made on hard concrete surface of minimum 5 metre diameter or equivalent.
- (ii) The measurements shall be made in free field conditions i.e., there shall not be any reflecting surface upto 15 metre distance from the point of bursting.
- (iii) The measurement shall be made with an approved sound level metre.

C. The Department of Explosive shall ensure implementation of these standards.

<sup>1</sup>[D. The fire crackers for the purpose of export shall be exempted from the sub-paragraphs A, B and C above subject to the compliance of the following conditions, namely :-

- (i) the manufacturer shall have an export order;
- (ii) the fire crackers shall conform to the level prescribed in the country to which it is exported;
- (iii) they shall have a different packing colour code, and
- (iv) there shall be a declaration on the box “not for sale in India” or “only for export in other countries”.]

**Note :** dB(A1) : A-weighted impulse sound pressure level in decibel.

dB(C)<sub>pk</sub> : C – weighted peak sound pressure level in decibel.]

---

**Footnote :** The Principal Rules were published in the Gazette of India vide Notification No.S.O.844 (E), dated the 19th November, 1986 and subsequently amended vide :

|  |   |
|--|---|
| (1) S.O.82(E), dt. 16 <sup>th</sup> February, 1987 | (13) S.O.136(E),dt.9 <sup>th</sup> February, 1990   |
| (2) S.O.393 (E), dt 16 <sup>th</sup> April, 1987;  | (14) G.S.R.742(E),dt.13 <sup>th</sup> August, 1990  |
| (3) S.O.443(E),dt 18 <sup>th</sup> April, 1987     | (15) S.O.23(E),dt.16 <sup>th</sup> January, 1991    |
| (4) S.O.64(E),dt. 18 <sup>th</sup> January, 1988   | (16) S.O.80(E),dt. 8 <sup>th</sup> February, 1991   |
| (5) G.S.R.919(E),dt.12 <sup>th</sup> Sept., 1988   | (17) S.O.114(E),dt.19 <sup>th</sup> February,1991   |
| (6) S.O.8(E),dt. 3 <sup>rd</sup> January 1989      | (18) G.S.R.85(E),dt.20 <sup>th</sup> February, 1991 |
| (7) G.S.R.913(E),dt. 24 <sup>th</sup> October 1989 | (19) G.S.R.93(E),dt 21 <sup>st</sup> February, 1991 |
| (8) S.O.914(E),dt. 24 <sup>th</sup> October, 1989  | (20) S.O.190(E),dt.18 <sup>th</sup> March, 1991     |
| (9) G.S.R.931(E),dt.27 <sup>th</sup> October, 1989 | (21) S.O.416(E),dt. 20 <sup>th</sup> June, 1991     |
| (10) G.S.R.103(E),dt. 25 <sup>th</sup> Dec.,1989   | (22) S.O.479(E), dt. 25 <sup>th</sup> July, 1991    |
| (11) S.O.12(E),dt. 8 <sup>th</sup> January, 1999   | (23) S.O.23(E),dt 9 <sup>th</sup> January, 1992     |
| (12) G.S.R.54(E),dt.5 <sup>th</sup> February, 1990 |   |

---

<sup>1</sup> Inserted sub paragraph D by Rule 2(ii) of the Environment (Protection) Second Amendment Rules, 2006 notified by G.S.R.640(E), dated 16.10.2006.