

## Annexure-A

### Details of Item

Metric gauge block set M122  
(NABL Certification required)  
Grade: 0

Material should be of equivalent or superior properties. Detailed properties are as follows.

Material: Steel

Hardness (HV): 800

Coefficient of thermal expansion ( $10^{-6}/K$ ):  $10.8 \pm 0.5$

Flexural Strength by 3-point bending (MPa): 1960

Fracture toughness  $K_{1c}$  ( $MPa \times m^{1/2}$ ): 120

Young's modulus  $\times 10^{-4}$  (MPa): 20.6

Poisson's ratio: 0.3

Specific gravity: 7.8

Thermal conductivity ( $W/m \times k$ ): 54.4

Blocks per set: 122 Nos, Details of size required are as follows

| Size (mm)   | Step (mm) | Qty. (No.) |
|-------------|-----------|------------|
| 1.0005      | none      | 1          |
| 1.001-1.009 | 0.001     | 9          |
| 1.01-1.49   | 0.01      | 49         |
| 1.6-1.9     | 0.1       | 4          |
| 0.5-24.5    | 0.5       | 49         |
| 30-100      | 10        | 8          |
| 25, 75      | none      | 2          |

Sawney Halder 22/08/19  
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