**TECHNICAL SPECIFICATIONS FOR SELF PROPELLED WALK BEHIND/RIDE ON TYPE PADDY TRANSPLANTER**

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| **1.1** | **General:** |  |  |
| Name and address of manufacturer  | **:** |  |
| Name and address of applicant | **:** |  |
| Name of the machine | **:** |  |
| Type | **:** |  |
| Make | **:** |  |
| Model | **:** |  |
| Size of transplanter, mm | **:** |  |
| Serial No. /Chassis No.  | **:** |  |
| Month and year of manufacture | **:** |  |
| Country of origin | **:** |  |
| **1.2** | **Details of prime mover:** |  |  |
| Name & address of manufacturer | **:** |  |
| Type | **:** |  |
| Make | **:** |  |
| Model | **:** |  |
| Serial no.  | **:** |  |
| Country of origin | **:** |  |
| Rated power in rating test of engine , kW  | **:** |  |
| Rated engine speed, rpm  | **:** |  |
| Maximum speed at no load, rpm  | **:** |  |
| Low idle speed, rpm  | **:** |  |
| Speed at maximum torque | **:** |  |
| Recommended no load engine speed for field operation, rpm  | **:** |  |
| Whether the prime mover has already been tested at authorized testing center (YES/NO) | **:** |  |
| If yes, then specify the valid test report No. and upload copy of the test report along with the Application Form | **:** |  |
| **1.2.1** | **Cylinder:**  |
| Number  | **:** |  |
| Disposition  | **:** |  |
| Bore / Stroke, mm | **:** |  |
| Capacity, cc | **:** |  |
| Compression ratio | **:** |  |
| Type of cylinder liner | **:** |  |
| Type of cylinder head | **:** |  |
| Arrangement of valves | **:** |  |
| **Valve clearance in cold condition, mm:** |  |  |
| -Inlet | **:** |  |
| -Exhaust | **:** |  |
| No. of compression rings | **:** |  |
| No. of oil rings | **:** |  |
| **1.2.2** | **Fuel supply system:**  |  |  |
| Type  | **:** |  |
| Type of fuel filter | **:** |  |
| Provision of water separator | **:** |  |
| Type of ignition device | **:** |  |
| **1.2.2.1** | **Fuel tank:** |  |  |
| Capacity, l | **:** |  |
| Location of fuel tank | **:** |  |
| Material of fuel tank | **:** |  |
| **1.2.2.2** | **Carburetor:** |  |  |
| Type  | **:** |  |
| Make | **:** |  |
| Product identification no. | **:** |  |
| **1.2.2.3** | **Governor:** |  |  |
| Make (apa) | **:** |  |
| Type  | **:** |  |
| Governed range of engine speed, rpm | **:** |  |
| Rated engine speed, rpm | **:** |  |
| **1.2.2.4** |  **Fuel injection pump (If applicable)** |  |  |
| Type  | **:** |  |
| Make  | **:** |  |
| Model/Group combination No.  | **:** |  |
| Sr. No. | **:** |  |
| Method of drive | **:** |  |
| **1.2.2.5** | **Fuel Injector (If applicable)** |  |  |
| Type | **:** |  |
| Make | **:** |  |
| Model/Group combination No.  | **:** |  |
| Sr. No. | **:** |  |
| Injection pressure, Mpa  | **:** |  |
| Injection timing  | **:** |  |
| **1.2.3** | **Air intake system:** |  |  |
| **1.2.3.1** | **Pre-cleaner:** |  |  |
| Type | **:** |  |
| Make | **:** |  |
| Model/Group combination No.  | **:** |  |

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| **1.2.3.2** | **Air cleaner:** |  |  |
| Type of air cleaner  | **:** |  |
| Recommended grade of oil  | **:** |  |
| Recommended service schedule, h  | **:** |  |
| Location | **:** |  |
| **1.2.3.3** | **Exhaust:** |  |  |
| Type of silencer  | **:** |  |
| Provision against entry of rain water | **:** |  |
| Location | **:** |  |
| **1.2.3.4** | **Lubrication system:** |  |  |
| Type  | **:** |  |
| Engine sump capacity, l  | **:** |  |
| Maximum permissible oil temperature, °C  | **:** |  |
| Provision of oil level checking  | **:** |  |
| Recommended grade of lubricating oil,  | **:** |  |
| Oil change period, h | **:** |  |
| Minimum permissible lube oil pressure, kg/cm2 | **:** |  |
| **1.2.3.5** | **Cooling system:** |  |  |
| Type  | **:** |  |
| **Details of blower:** |  |  |
| Dia., mm | **:** |  |
| Number of fins | **:** |  |
| **Size of fins, mm:** |  |  |
| -Height  | **:** |  |
| -Width (top/bottom) | **:** |  |
| -Thickness | **:** |  |
| **Radiator (if applicable):** |  |  |
| Make | **:** |  |
| Type of radiator cap  | **:** |  |
| Radiator cap pressure, kgf/cm2 |  |  |
| Means of temperature control | **:** |  |
| Type of thermostat | **:** |  |
| Bare radiator capacity, l | **:** |  |
| Total coolant capacity, l | **:** |  |
| Means of grill cleaning, if any | **:** |  |
| Recommended grade of coolant | **:** |  |
| Coolant water ratio | **:** |  |
| **1.2.4** | **Electrical system:** |  |  |
| **1.2.4.1** | **Starting system:** |  |  |
| Make  | **:** |  |
| Type  | **:** |  |
| Aid for cold starting  | **:** |  |
| Any other device for easy starting | **:** |  |

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| **1.2.4.2** | **Spark plug (if applicable):** |  |  |
| Make  | **:** |  |
| Model  | **:** |  |
| Type  | **:** |  |
| Gap of spark plug electrodes, mm | **:** |  |
| **1.2.4.3** | **Starter motor:** |  |  |
| Make  | **:** |  |
| Type | **:** |  |
| Model/ Group combination No.  | **:** |  |
| Capacity/Power, kW | **:** |  |
| Location | **:** |  |
| **1.2.4.4** | **Alternator:** |  |  |
| Make  | **:** |  |
| Model/Group combination No. | **:** |  |
| Output rating  | **:** |  |
| Location | **:** |  |
| Method of drive | **:** |  |
| **1.2.4.5** | **Voltage regulator** | **:** |  |
| **1.2.4.6** | **Battery:** |  |  |
| Make | **:** |  |
| Model/Type No. | **:** |  |
| Type | **:** |  |
| Capacity | **:** |  |
| No. & location | **:** |  |
| **1.2.4.7** | **Lighting system:** |  |  |

**Details of lights:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Description | No. & capacity of bulb | Height above ground to the centre of beam (mm) | Size of beam, (mm) | Distance from centre of the beam to outside edge of combine(mm) |
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| **1.2.4.8** | **Horn** | **:** |  |
| **1.2..5** | **Engine mounting frame:** |  |  |
| Type  | **:** |  |
| Shape | **:** |  |
| Size, mm | **:** |  |
| Thickness of sheet, mm | **:** |  |
| Method of fixing  | **:** |  |
| **1.3** | **Transmission system:**  |  |  |
| Make  | **:** |  |
| Model | **:** |  |
| Type | **:** |  |
| Description | **:** |  |
| Location | **:** |  |
| No. of speeds (Froward & Reverse) | **:** |  |
| Method of drive | **:** |  |
| Method of gear shifting | **:** |  |
| Oil capacity, l | **:** |  |
| Recommended grade of oil | **:** |  |
| Oil change period, h | **:** |  |
| **Nominal speed:** |  |  |

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| --- | --- | --- | --- |
| Movement | Gear No. | No. of engine revolutions for one revolution of driving wheel | Nominal speed at rated engine speed of ------- rpm when fitted with -------------- size of tyre of ------ mm radius index. (kmph) |
| Variator setting | Variator setting |
| Minimum | Maximum | Minimum | Maximum |
| **Forward** | 1 |  |  |  |  |
| 2 |  |  |  |  |
| 3 |  |  |  |  |
| **Reverse** | 1 |  |  |  |  |
| 2 |  |  |  |  |

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| **1.3.1** | **Main clutch:**  |  |  |
| Make  | **:** |  |
| Type  | **:** |  |
| Location | **:** |  |
| Mode of operation | **:** |  |
| Location | **:** |  |
| **1.3.2** | **Rear wheel clutch/Steering clutch:** |  |  |
| Function | **:** |  |
| Make  | **:** |  |
| Type  | **:** |  |
| Location | **:** |  |
| No. &size of pressure plate | **:** |  |
| No. & size of friction plate | **:** |  |
| Mode of operation  | **:** |  |

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| **1.3.3** | **Planting clutch:** |  |  |
| Function | **:** |  |
| Make  | **:** |  |
| Type  | **:** |  |
| Mode of operation | **:** |  |
| Location of lever | **:** |  |
| **1.3.4** | **Final drive:** |  |  |
| Make  | **:** |  |
| Type  | **:** |  |
| **First reduction details:** |  |  |
| No. of teeth on 1st pinion shaft  | **:** |  |
| No. of teeth on 1st crown shaft | **:** |  |
| Speed reduction ratio  | **:** |  |
| **Second reduction details:** |  |  |
| No. of teeth on 2nd pinion shaft | **:** |  |
| No. of teeth on 2nd crown shaft | **:** |  |
| Speed reduction ratio | **:** |  |
| Lubrication  | **:** |  |
| No. and type of bearing  | **:** |  |
| **1.4** | **Wheel equipment (drive wheel):** |  |  |
| Type (2WD/4WD) | **:** |  |
| **1.4.1** | **Front wheel (if applicable):** |  |  |
| Type  | **:** |  |
| Number | **:** |  |
| Dia. of wheel, mm | **:** |  |
| No. of lugs | **:** |  |
| Size of lugs (H x W x T), mm | **:** |  |
| Track width, mm | **:** |  |
| Wheel mounting | **:** |  |
| **1.4.2** | **Rear wheel:** |  |  |
| Type  | **:** |  |
| Number | **:** |  |
| Dia. of wheel, mm | **:** |  |
| No. of lugs | **:** |  |
| Size of lugs (H x W x T), mm | **:** |  |
| Track width, mm | **:** |  |
| Wheel mounting | **:** |  |
| Wheel base | **:** |  |
| Details of differential lock  | **:** |  |
| Details of torque multiplier | **:** |  |
| **1.5** | **Brakes:** |  |  |
| **1.5.1** | **Service brakes:** |  |  |
| Type | **:** |  |
| Location | **:** |  |
| Method of operation | **:** |  |
| **1.5.2** | **Parking brake:** |  |  |
| Type | **:** |  |
| Location | **:** |  |
| Method of operation | **:** |  |
| **1.6** | **Hydraulic system:**  |  |  |
| **Hydraulic pump:** |  |  |
| Type  | **:** |  |
| Make and model  | **:** |  |
| Number | **:** |  |
| Drive details | **:** |  |
| No. of teeth on drive gear | **:** |  |
| No. of teeth on driven gear | **:** |  |
| Speed reduction ratio | **:** |  |
| Location | **:** |  |
| Capacity, l | **:** |  |
| Recommended grade of oil | **:** |  |
| Oil change period, h | **:** |  |
| No. of hydraulic cylinder  | **:** |  |
| Internal dia. of cylinder tube, mm | **:** |  |
| Dia. of cylinders rod, mm | **:** |  |
| Stroke of piston, mm | **:** |  |
| Relief valve setting, MPa (Kg/cm2)  | **:** |  |
| Details of distributor | **:** |  |
| Details of hydraulic lock | **:** |  |
| **1.7** | **Steering:**  |  |  |
| Make | **:** |  |
| Type  | **:** |  |
| Material | **:** |  |
| Size, mmPeripheral lengthDia. | **:****:** |  |
| Height of centre of handle grip from ground level, mm | **:** |  |
| Method of fixing  | **:** |  |
| Handle grip size (L x Dia.), mm | **:** |  |
| Method of adjustment of height | **:** |  |
| Range of height adjustment, mm | **:** |  |
| Outer dia. of steering control wheel, mm **(if applicable)** | **:** |  |
| Details of hydraulic system | **:** |  |
| Method of operation | **:** |  |

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| **1.8**  | **Planting mechanism:**  |  |  |
| Type  | **:** |  |
| No. of rows | **:** |  |
| Spacing of rows, mm | **:** |  |
| Method of changing row to row spacing  | **:** |  |
| Range of hill to hill spacing, mm | **:** |  |
| Method of changing hill spacing  | **:** |  |
| Number of seedlings per hill  | **:** |  |
| Arrangement for adjusting the number of seedling per hill | **:** |  |
| Provision for planting depth adjustment | **:** |  |
| Provision for independent operation of pair of planting claw & seedling feed | **:** |  |
| Provision for automatic leveling of seedling platform | **:** |  |
| Recommended grade of lubricant  | **:** |  |
| Grease/oil changing period, h  | **:** |  |
| **1.8.1** | **Planting Finger:**  |  |  |
| Type | **:** |  |
| Number | **:** |  |
| Material | **:** |  |
| No. of speeds available for fingers | **:** |  |
| Size, mm | **:** |  |
| Width of jaw/beak, mm | **:** |  |
| Length of beak, mm | **:** |  |
| Total length of planting finger, mm | **:** |  |
| **1.9** | **Seedling Feeding system:** |  |  |
| **1.9.1** | **Seedling platform assembly:** |  |  |
| Type  | **:** |  |
| Material | **:** |  |
| Size (L x W), mm | **:** |  |
| Number of compartment  | **:** |  |
| Size each component (L x W), mm | **:** |  |
| Inclination of tray | **:** |  |
| Seedling platform drive | **:** |  |
| Provision of left and right movement of tray | **:** |  |
| **Platform Extension:** |  |  |
| No. of extensions | **:** |  |
| Type | **:** |  |
| Material | **:** |  |
| Size, mm | **:** |  |
| **1.9.2** | **Longitudinal feeding system:** |  |  |
| Type | **:** |  |
| Material  | **:** |  |
| **Details of star wheels:**  |  |  |
| No. of star wheel | **:** |  |
| Size of star wheel, mm |  |  |
| Dia. | **:** |  |
| No. of teeth  | **:** |  |
| **Details of belts (if applicable):** |  |  |
| No. of belts | **:** |  |
| Seedling mat contact area, cm2 | **:** |  |
| Method of drive  | **:** |  |
| **1.9.3** | **Seedling support rod/stay-bars/retainer:** |  |  |
| Type  | **:** |  |
| Number  | **:** |  |
| Size (L x Dia.), mm | **:** |  |
| Method of fixing | **:** |  |
| **1.9.4** | **Cross feed system:**  |  |  |
| Type | **:** |  |
| Size of shaft, mm | **:** |  |
| Speed of seedling platform, m/s | **:** |  |
| Method of changing speed | **:** |  |
| Stroke length of cross feed platform, mm | **:** |  |
| No. of strokes per min. | **:** |  |
| Recommended grade of lubricant | **:** |  |
| Grease changing period, h  | **:** |  |
| **1.10** | **Floating system:** |  |  |
| Type  | **:** |  |
| Number | **:** |  |
| Material  | **:** |  |
| Location | **:** |  |
| Method of fixing | **:** |  |
| Float adjustment for planting depth | **:** |  |
| Provision for automatic depth control | **:** |  |
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| **Parameters**  | **Center float** | **Side float** |
| Length, mm |  |  |
| Maximum width, mm |  |  |
| Minimum width, mm |  |  |
| Mass, kg |  |  |
| Ground contact area, m2 |  |  |
| Angle of curvature, deg. |  |  |

**Details of float:** |

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| **1.11** | **Spare seedling carrier:** |  |  |
| Type | **:** |  |
| Material | **:** |  |
| Location | **:** |  |
| Number | **:** |  |
| Size (L x W), mm | **:** |  |

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| **1.12** | **Operator’s seat (if applicable):** |  |  |
| Type | **:** |  |
| Method of suspension | **:** |  |
| Method of dampening | **:** |  |
| **Adjustment, mm:** |  |  |
| Horizontal | **:** |  |
| Vertical | **:** |  |
| **1.13** | **Details of safety provisions** | **:** |  |
| **1.14** | **Details of controls and instrument panel** | **:** |  |
| **1.15** | **Overall dimensions, mm:**  |  | **Transportation** | **Field** |
| Length | **:** |  |
| Width | **:** |  |
| Height | **:** |  |
| **1.16** | **Ground clearance, mm** | **:** |  |
| **1.17** | **Mass, kg** | **:** |  |
| **1.18** | **Colour of machine** | **:** |  |
| **1.19** | **Marking/ Labeling Plate:**  |  |  |
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**SELECTED PERFORMANCE AND OTHER CHARACTERISTICS AS PER IS 18718: 2024**

**(TO BE DECLARED BY THE APPLICANT)**

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| --- | --- | --- | --- | --- | --- | --- |
|  **S. No** | **Characteristics** | **Category (Evaluative/Non evaluative)** | **Requirement**  | **Tolerance**  | **Declaration by applicant** | **Remarks** |
| **1.** | **Engine performance (diesel/gasoline):** |
|  | **a)** | Maximum power under 2 h test, kW for diesel engine and equivalent test for gasoline engine; | Evaluative | To be declared by the manufacturer | Declaredvalue to be achieved with a tolerance of ± 10 percent |  |  |
| **b)** | Power at rated engine speed, kW | Non evaluative | -do- | do- |  |  |
| **c)** | Specific fuel consumption corresponding to maximum power, g/kWh | Evaluative | -do- | +5 percent |  |  |
| **d)** | Maximum equivalent crankshaft Torque, Nm | Non -evaluative | To be declaredby the manufacturer | -5 percent |  |  |
| **e)** | Back up torque, % | Non-evaluative | 5 %, minimum | Nil | - |  |
| **f)** | Maximum operating temperature, °C: |  |
| i) Engine oil | Evaluative | To be declared by the manufacturer | Nil | The declaredValue should not exceed maximum value specified by the oil company. Manufacturer/applicant shall supply the recommendation of oil company along with the application form. |  |
| ii) Coolant/ cylinder liner in case of air cooled engine | Evaluative | To be declared by the manufacturer | Nil | Observed value should not exceed the declared value. |  |
| **g)** | Lubricating oil consumption, g/kWh | Evaluative | Not exceeding 1% of SFC atmaximum power under high ambientconditions | Nil | The value would be based on the test conducted under high ambient condition |  |
| **h)** | Maximum coolant (water) consumption (percent of total coolant capacity) | Non -evaluative | Coolantconsumptionshould notexceed 25% of the total coolant capacity | Nil |  |  |
| **j)** | Smoke level | Evaluative | Maximum Light absorptioncoefficient of3.25/m orEquivalent BOSCH No. 5.2 or 75 Hatridge value (as per CMVR) |  | Maximum smoke level shall be reported out of 6 readings tested as per IS 12062 for diesel engine and same procedure or any other equivalent procedure may be followed for gasoline engines. The observed value should be well within the required limits  |  |
| **2.** | **Parking brakes:** | Evaluative | No rotation of drive wheels at a slope of 18 percent facing up and facing down | Yes / No | Based on the test conducted 'Yes/No' as applicable may be indicated. |  |
| **3.** | **Air Cleaner Oil Pull Over:** | Evaluative | 0.25 %, *Max* |  | Maximum percentage of oil pull over (mass basis) |  |
| **4. Noise level:** |
|  | **i)** | Maximum ambient noise emitted by the paddy transplanter, dB (A) | Evaluative | 85 | Yes | The observed value should be within the permissible limit |  |
| **ii)** | Maximum noise at operators' ear level, dB(A) | Evaluative | 96 | Yes | The observed value should be within the permissible limit |  |
| **5. Amplitude of Mechanical Vibration at:** |
|  | **a)** | Steering handle grips/ Steering control wheel | Non -evaluative | 100µ Max | Nil |  |  |
| **b)** | **Gear lever (s):** |  |
| **i)** | - Transmission | Non -evaluative | 100µ Max | Nil |  |  |
| **ii)** | - Planting | Non -evaluative | 100µ Max | Nil |  |  |
| **c)** | Clutch/brake lever(s) / Pedal (s) | Non -evaluative | 100µ Max | Nil |  |  |
| **d)** | Accelerator lever/ knob | Non -evaluative | 100µ Max | Nil |  |  |
| **e)** | Operators seat | Non -evaluative | 100µ Max | Nil |  |  |
| **f)** | Foot rest | Non -evaluative | 100µ Max | Nil |  |  |
| **6. Field requirements:** |
|  | **a)** | Variation in seedling trays consumption per hectare (%) | Non -evaluative | 5% Max | Nil |  |  |
| **b)** | Variation in number of hills per meter of row length (%) | Evaluative  | 5% Max | Nil |  |  |
| **c)** | **Transplanting faults in 1 m2, (%)** |  |  |  |  |  |
| i) Missed hills | Evaluative  | 5 % Max | Nil |  |  |
| ii) Floating seedlings | Evaluative  | 3% Max | Nil |  |  |
| iii) Buried seedlings | Evaluative  | 2% Max | Nil |  |  |
| iv) Damaged seedlings | Evaluative  | 2% Max | Nil |  |  |
| v) Total faults | Evaluative  | 10% Max | Nil |  |  |
| **d)** | Variation in number of seedlings per hill | Non -evaluative | 15% Max | Nil |  |  |
| **e)** | Variation in Planting depth | Non -evaluative | 15% Max | Nil |  |  |
| **7. Effectiveness of sealings:** |
|  | **a)** | Engine oil | Evaluative  | The entry of mud/ water should not take place in components /sub- assemblies | Yes / No |  |  |
| **b)** | Hydraulic oil | Evaluative  | Yes / No |  |  |
| **c)** | Transmission oil | Evaluative  | Yes / No |  |  |
| **d)** | Clutch assembly | Evaluative  | Yes / No |  |  |
| **e)** | Planting gear box oil | Evaluative  | Yes / No |  |  |
| **f)** | Planting arms | Evaluative  | Yes / No |  |  |
| **8.** | **Discard limits:** |
| **a)** | Cylinder bore | Evaluative  |  |  |  | Such component and values where discard limit specified by the manufacturer exceed should only be mentioned |
| **b)** | Piston clearance | Evaluative  |  |  |  |
| **c)** | Ring end gap | Evaluative  |  |  |  |
| **d)** | Diametrical clearance of big end Bearing | Evaluative  |  |  |  |
| **e)** | Axial clearance of big end Bearing | Evaluative  |  |  |  |
| **f)** | Ring groove clearance | Evaluative  |  |  |  |
| **g)** | Thickness of clutch lining | -do- |  | Up to rivet head |  |
| **h)** | Diametrical clearance of main bearings | -do- |  |  |  |
| **j)** | Axial clearance of main bearings | -do- |  |  |  |
| **9.** | **Safety Requirements:** |
| **a)** | Provision of guards on moving parts | Evaluative  | Yes |  |  |  |
| **b)** | Location and direction of exhaust emission to be away from the operator | -do- | Yes |  |  |  |
| **c)** | Covers on hot parts | -do- | Yes |  |  |  |
| **d)** | Provision of headlights | Non- evaluative | Yes |  |  |  |
| **10.** | **Literature (submission to test agency):** |
| **a)** | Operator manual | Evaluative  | Provided |  |  |  |
| **b)** | Parts catalogue | Evaluative  | Provided |  |  |  |
| **c)** | Workshop/service manual | Evaluative  | Provided |  |  |  |
| **11.** | **Labelling of machine (provision of labelling plate):** |
| **a)** | Name of manufacturer | Evaluative  | Metallic plate shall be welded/riveted permanently on the machine at place where it can be easily identified. |  |  |  |
| **b)** | Country of origin | Evaluative  |  |  |  |
| **c)** | Make | Evaluative  |  |  |  |
| **d)** | Model | Evaluative  |  |  |  |
| **e)** | Year of manufacture | Evaluative  |  |  |  |
| **f)** | Engine serial number | Evaluative  |  |  |  |
| **g)** | Chassis serial number | Evaluative  |  |  |  |
| **h)** | Size of machine | Evaluative  |  |  |  |
| **j)** | Maximum engine power, kW | Evaluative  |  |  |  |
| **k)** | Specific fuel consumption, g/kWh | Evaluative  |  |  |  |

**Place:**  Signature------------------------------------------

**Date:** Name of the applicant---------------------------

 Designation---------------------------------------

 Address-------------------------------------------

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