

OECD Application Format No. 2

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**DETAILED TECHNICAL SPECIFICATIONS OF TRACTOR SUBMITTED BY THE
MANUFACTURER FOR OECD TEST**

(To be submitted by the Applicant / Manufacturer to the Testing Agency in triplicate)

- Note:** (1) The tractor shall normally be a production model in all respects, strictly conforming to the description and specification sheet submitted by the manufacturer.
- (2) The adjustment of the injection pump and the setting of the governor shall conform to the specifications provided by the manufacturer.
- (3) The tractor shall be new and run in by the manufacturer before the test in collaboration with the testing station, under the responsibility of the manufacturer and in accordance with his usual instructions.
- (4) The [D] indicates the manufacturer's declaration of specification of the tractor. The term "not announced" may be specified in case the specification is not declared by the manufacturer and the term "not available" shall be specified in case a particular component is not fitted on the tractor.

1.0 General Information:

- [D] Tractor manufacturer's name and address :
- [D] Location of tractor assembly :
- [D] Telephone Number (s) :
- [D] Fax Number (s) :
- [D] E-mail Address :
- [D] Website :
- [D] Name and Designation of contact person. :
- [D] Telephone Number / E-mail ID of contact person :

2.0 Specifications of the tractor:

- [D] Make of the tractor :
- [D] Model (trade name) :
- [D] Indian Trade name, if imported :
- [D] Type :
- [D] Variant(s) if any :
- [D] 1st serial number or prototype :
- [D] Serial Number :

Name of Manufacturer/ Applicant	Document No, if any and its Revision status	Name of Testing Agency: CFMT&TI, BUDNI (M.P.)
Signature :	Make and Model of Tractor:	Signature :
Name :		Name : C. V. CHIMOTE
Designation :		Designation : TEST ENGINEER
Date :		Date :

Other specifications (if applicable):

- [D] Model(s) for other countries :
 [D] Transmission type or gears x ranges :
 [D] Speed version : 30 or 40 km/h
 [D] Manufacturer identification or technical type :
 number

	Location of the identification Mark/code for:	Coding/Identification Mark	Location
[D]	- Engine identification Number		
	- Chassis identification Number		
[D]	-Gearbox/Transmission housing identification Mark		
	-Hydraulic System identification Mark		
	- Year of Manufacturing		
	- Other major assemblies, if any		

- [D] Country of origin :
 Method of selection : By the Testing station
 [D] Duration of running-in(h): Running in schedule should be enclosed as
Annexure-II
 [D] - Engine :
 [D] - Transmission :

3.0 Engine:

- [D] Make :
 [D] Model :
 [D] Place of embossing / punching of the engine :
 model on the engine
 [D] Type :
 [D] Serial Number :
 [D] Serial No./ Identification Number and its :
 place of location on engine
 [D] Type of suction, [Naturally aspirated / super :
 charged / turbo charged (Please specify)]
 [D] Year of manufacture :
 [D] Country of origin :
 [D] Name and address of engine manufacturer :
 [D] Telephone Number(s) :
 [D] Fax Number(s) :
 [D] E-mail Address :
 [D] Website :

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Engine speed (Manufacturers recommended production settings) (rpm):

- [D] Max speed at no load i.e. high idling speed :
(with tolerance)
- [D] Low idling speed (with tolerance) :
- [D] Speed at maximum torque :

Rated speed, (rpm):

- [D] - For PTO work :
- [D] - For drawbar work :

3.1 Cylinders and Cylinder Head:

- [D] Number of cylinders :
- [D] Disposition :
- [D] Nominal bore (mm) :
- [D] Stroke (mm) :
- [D] Capacity as specified by applicant (cm³) :
- [D] Compression ratio :
- [D] Type of cylinder liners (wet or dry) :

Cylinder Head:

- [D] Type :
- [D] Type of combustion chamber :
- [D] Number of valves per cylinder :
- [D] - Inlet :
- [D] - Exhaust :
- [D] Arrangement of valves :

Minimum cross section area of ports (cm²):

- [D] - Inlet :
- [D] - Outlet :

Valve Clearance (mm):

- [D] - Inlet :
- [D] - Exhaust :

	Cold	Hot

No. of valve springs /valve

Valve lift

- [D] - Inlet :
- [D] - Exhaust :
- [D] Free length of valve springs when new Inner / Outer (mm) :
- [D] Compressed (assembled) length of valve springs (mm) :

3.2 Supercharging / Turbocharger / EGR (If fitted):

- [D] Make :
- [D] Model :
- [D] Type :

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- [D] Pressure, (MPa) : ----- MPa at rated engine speed.
- [D] Speed at rated engine speed (rpm) :
- [D] Method of lubrication :
- [D] Location :

3.3 Fuel Supply System :

3.3.1 Fuel filter(s):

- [D] Make :
- [D] Model :
- [D] Type :

Type of filter elements:

- [D] - Primary :
- [D] - Secondary :
- [D] - Capacity of Secondary filter bowl with filter elements,(l) :

3.3.2 Fuel tank:

- [D] Make :
- [D] Material :
- [D] Capacity, (l) :
- [D] Location :
- [D] Type of mounting :
- [D] Provision for draining of sediments/water :
- [D] Type of strainer at filling mouth :

3.3.3 Water Separator (if provided):

- [D] Make :
- [D] Type :
- [D] Location :

3.3.4 Primary Pump (Fuel transfer pump/ Feed pump):

- [D] Make :
- [D] Model/Group combination No. :
- [D] Type :
- [D] Location :
- [D] Method of drive :
- [D] Whether sediment bowl has been provided : Yes / No

3.3.5 Fuel Injection Pump:

- [D] Make :
- [D] Model :
- [D] Type :

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- [D] Serial number :
- Manufacturer's production setting of injection pump:
- [D] Flow rate (rated engine speed and full load) : ----- to ----- dm³/h
- [D] Injection timing :
- [D] Whether arrangement for Advancing / retarding fuel injection is provided, if yes, give range. : ----- to ----- degree before TDC
- [D] Firing order :

3.3.6 Injectors:

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Injection pressure, (MPa) :
- [D] No. of holes in each injector :
- [D] Diameter of holes, (mm) :

3.3.7 Governor:

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Governed range of engine speed from ----- to -----, (rpm) :
- [D] Rated engine speed, (rpm) :

3.4 Air cleaner:

3.4.1 Pre-cleaner:

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Location of air intake :

3.4.2 Main cleaner:

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Location of air intake (in case of no pre-cleaner) :
- [D] Suction pressure at Maximum power, (kPa) :

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Details of filter elements in case of dry type cleaner:		Primary Element	Secondary Element
[D]	- Make		
[D]	- No. of elements		
[D]	- Length		
[D]	- Inner diameter		
[D]	- Outer diameter		
[D]	- Material		

[D] Maintenance indicator :
 [D] Servicing/maintenance schedule :

3.5 Lubrication System:

[D] Type :
 [D] Minimum permissible lubricating oil pressure, kPa (kgf /cm²) :
 [D] Type of cooling device / inter cooler, if any :

3.5.1 Lub oil filter (s):

[D] Type of filter :
 [D] Number(s) :

3.5.2 Lub. oil pump:

[D] Make :
 [D] Model :
 [D] Type :
 [D] Method of drive :
 [D] Pressure release setting of relief valve, (kPa) :
 [D] Pump speed at rated engine speed, (rpm) :
 [D] Pump discharge at rated engine speed, (l/min) :

3.6 Cooling System:

[D] Type :

3.6.1 Radiator:

[D] Make :
 [D] Model :
 [D] Outer dimensions, (mm) :
 [D] Size of frontal area, (cm²) :
 [D] Recommended Pressure of cap, (kPa) :
 [D] Type of coolant :
 [D] Name & or brand name of coolant :
 [D] Coolant water ratio (if applicable) :
 [D] Bare radiator capacity, (l) :
 [D] Capacity of expansion tank, (l) :
 [D] Total capacity of cooling system, (l) :

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3.6.2 Fan:

- [D] Make and type :
- [D] Number of fan blades :
- [D] Fan diameter, (mm) :
- [D] Method of drive :

3.6.3 Coolant pump:

- [D] Make and Type :
- [D] Type of impeller :
- [D] Diameter of impeller, (mm) :
- [D] Number of blades / vanes :
- [D] Number and Type of bearings :
- [D] Arrangement for Lubrication :
- [D] Period / Frequency of lubrication :
- [D] Method of drive :
- [D] Size of drive belt and No.(s) :

3.6.4 Means of Temperature control:

- [D] Type :
- [D] Location :
- [D] Opening temp. of thermostat valve, (°C) :
- [D] Temp. of fully open thermostat valve, (°C) :

3.7 Exhaust System:

- [D] Make :
- [D] Model :
- [D] Type of silencer :
- [D] Location on tractor :
- [D] Exhaust Gas pressure at maximum power, kPa/(mm of Hg) :
- [D] Provision of spark arresting device, (Yes / No) :
- [D] Make and Type of spark arresting device, if provided :

3.8 Electrical System voltage :**3.8.1 Self Starter:**

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Starter motor power rating, (kW) :
- [D] Cold starting aid :

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[D] Any other device for easy starting :
 [D] Safety device :

3.8.2 Generator:

[D] Make :
 [D] Model :
 [D] Type :
 [D] Out put rating :
 [D] Power rating :
 [D] Serial Number :

3.8.3 Batteries:

[D] Make :
 [D] Model :
 [D] Type :
 [D] Number :
 [D] Capacity and rating : ----- Ah at 20 hours discharge rating
 [D] Location :
 [D] Ground polarity :

3.8.4 Voltage regulator:

[D] Make :
 [D] Model :
 [D] Type :
 [D] Location :
 [D] Cut off Voltage & current : -----Volts and -----Amps.

3.8.5 Lighting:**Standard to which it conforms(IS:14683-1999/AIS:030:****Details of Lighting and reflectors:**

Description	No. of lights and capacity of bulbs, (W)	Shape and size of light(s), (mm)	Height above ground of centre, (mm)	Distance from outside edge of lights to median plane of the tractor, (mm)
Front Lights:				
Head lights				
Parking lights				
Turn indicator lights				
Hazard Warning lights				
Reflectors				
Rear Lights:				
Parking lights				
Turn indicator lights				
Hazard Warning lights				
Stop lights				
Registration plate lights				
Reflectors				
Any other				

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3.9	Details of Instruments panel:	
i)	Engine speed –cum-cumulative run hour meter.	Provided/ not provided
ii)	Lubricant oil pressure gauge/ indicator lamp	Provided/ not provided
iii)	Coolant (water) temperature gauge (with colour zones).	Provided/ not provided
iv)	Fuel level gauge (with colour zones).	Provided/ not provided
v)	Main switch (key-turn type).	Provided/ not provided
vi)	Light switch (rotary type).	Provided/ not provided
vii)	Turn indicator light switch	Provided/ not provided
viii)	Hazard light switch	Provided/ not provided
ix)	Head light (long beam) indicator lamp.	Provided/ not provided
x)	Battery charging indicator lamp.	Provided/ not provided
xi)	Turn indicator-cum-hazard indicator tell-tale	Provided/ not provided
xii)	Fuel shut-off knob	Provided/ not provided
xiii)	Horn push button.	Provided/ not provided
xiv)	Specify other if any	Provided/ not provided

3.10 Reagent injection system (if applicable):

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Location :
- [D] Specification of reagent to be used :

3.11 Diesel Particulate Filter (if equipped):

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Maximum allowable turbine outlet pressure :
- [D] Change in power at fully loaded rated engine speed between a clean DPF and one that has achieved maximum allowable soot loading :
- [D] The amount of fuel used to regenerate the DPF when fully soot loaded :
- [D] Special operational procedures required if the tractor is operated for long periods at load factors :
- [D] Report the number of active regenerations that occur during 12 hours of continuous operation at 30% loading at the engine speed at which maximum engine torque occurs :

3.12 Transmission:**3.12.1 Clutch (travel and power take-off / travel alone):**

- [D] Make :
- [D] Model :
- [D] Type :

- [D] Number of plates :
- [D] Outer Diameter of plates, (mm) :
- [D] Inner Diameter of plates, (mm) :

	Travel	Power take-off

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[D] Method of operation :

--	--

 [D] Material of clutch lining :

--	--

3.12.2 Gear Box:

[D] Make :
 [D] Model :
 [D] Type / Description :
 [D] Number of speeds:
 [D] - Forward :
 [D] - Reverse :
 [D] Location of main gear shifting levers :
 [D] Location of speed range selector (L/M/H) lever :
 [D] Gear shifting pattern : (please give sketch)

	Forward	Reverse
[D] Number of ranges / groups :		
[D] Number of gears :		
[D] Total of arrangements :		
[D] Available options :		

3.12.3 Rear axle:

[D] Make :
 [D] Model :
 [D] Type :

Rear Differential:

[D] Type :
 [D] Speed reduction through crown wheel and bevel pinion : (Please specify up to three decimal places)

Differential lock:

[D] Type :
 [D] Location :
 [D] Method of engagement :
 [D] Method of disengagement :

Rear Final Drive:

[D] Type :
 [D] Speed reduction through rear final drive : (Please specify up to three decimal places)
 [D] Location :

3.12.4 Front Axle:

[D] Make :
 [D] Model :
 [D] Type :

Front Differential (In case of 4WD):

[D] Type :
 [D] Speed reduction through crown wheel and bevel pinion : (Please specify up to three decimal places)

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Differential lock:

- [D] Type : Dog clutch/ pin type
- [D] Location :
- [D] Method of engagement :
- [D] Method of disengagement :

Front Final Drive (In case of 4WD):

- [D] Type :
- [D] Speed reduction through front final drive : (Please specify up to three decimal places)
- [D] Location :

3.12.5 Nominal Speed:

Movement	Gear No.	Group or range	Number of engine revolutions for one revolution of driving wheels	Nominal travelling speed (*) at rated engine speed when fitted with ----- --size tyres of ----- mm tyre dynamic radius index, (km/h)
Forward				
Reverse				

(*) Calculated with a tyre dynamic radius index of ----- mm (pneumatic tyred tractors only) (ISO 4251-1: 2005)

- [D] Number of revolutions of front wheels for one revolution of rear-wheels (for 4WD tractors only) :

3.13 Power Take-off:

3.13.1 Main power take-off:

- [D] Type : (Independent, semi-independent or not independent)
- [D] Method of engagement (if necessary describe the type of clutch) :
- [D] Number of shaft(s) :
- [D] Method of changing power take-off shaft ends and speeds :

3.13.1.1 Power take-off proportional to engine speed:

- [D] Location :
- [D] Diameter of power take-off shaft end, (mm) :
- [D] Number of splines : -----, (In conformity / not in conformity with ISO 500-1:2004/Cor 1:2005, ISO 500-2:2004, ISO 500-3:2004)
- [D] Height above ground :

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- [D] Distance from the median plane of the tractor :
- [D] Distance behind rear-wheel axis :
- [D] PTO speed at rated engine speed :
- [D] Engine speed at standard power take-off speed :
- [D] Ratio of rotation speeds (Engine speed/ PTO speed) :
- [D] Power restriction :
- [D] Maximum torque transmissible :
- [D] Direction of rotation (viewed from rear of tractor) :
- [D] Whether PTO Shaft is capable of transmitting the full power of engine : Yes/ No
- [D] Master shield provided : Yes / No
- Power take-off at 1000 rev/min:**
- [D] Location :
- [D] Diameter of power take-off shaft end, (mm) :
- [D] Number of splines : -----, (In conformity / not in conformity with ISO 500-1:2004/Cor 1:2005, ISO 500-2:2004, ISO 500-3:2004)
- [D] Height above ground :
- [D] Distance from the median plane of the tractor :
- [D] Distance behind rear-wheel axis :
- [D] PTO speed at rated engine speed :
- [D] Engine speed at standard power take-off speed :
- [D] Ratio of rotation speeds (Engine speed/ PTO speed) :
- [D] Power restriction :
- [D] Maximum torque transmissible :
- [D] Direction of rotation (viewed from rear of tractor) :
- [D] Whether PTO Shaft is capable of transmitting the full power of engine : Yes/ No

3.13.1.2 Power take-off proportional to ground speed:

- [D] Indicate 540 or 1000, (rev/min) :
- [D] Travelling distance for one revolution of take-off shaft, (m) :
- [D] Number of power take-off shaft revolutions for one revolution of (rear) driving wheels :
- [D] Direction of rotation with forward gear engaged (viewed from behind tractor) :

3.13.1.3 Optional Power take-off:

- [D] (If applicable, specify the same description as for main PTO)

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3.14 Hydraulic Power Lift:

- [D] Make :
- [D] Model :
- [D] Type of hydraulic system :
- [D] Type and number of cylinders (single or double acting) :
- [D] Number & location of external ram cylinders (if fitted) :
- [D] Type of linkage lock for transport :
- [D] Relief valve pressure setting (tolerance) :
- [D] Opening pressure of cylinder safety valve :
- [D] Lift pump type :
- [D] Transmission between pump and engine :
- [D] Number and Type of filter(s) :
- [D] Site of oil reservoir :
- [D] Number and type of Control levers/knobs :
- [D] Method of draft sensing :

Pump:

- [D] Make :
- [D] Type :
- [D] Model :
- [D] Location :
- [D] Speed of pump corresponding to rated engine speed,(rpm) :
- [D] Rated speed of pump,(rpm) :
- [D] Discharge of pump at rated engine speed and minimum pressure, (l/min) :
- [D] Crack off pressure of relief valve, MPa :
- [D] Pressure sustained by open relief valve, MPa :
- [D] Max. hydraulic power,(kW) :
- [D] Pump delivery rate at max. power, (l/min) :
- [D] Pressure corresponding to max. power, (MPa) :

Tapping points:

- [D] Type :
- [D] Number :
- [D] Location :
- [D] Maximum volume of oil available to external cylinders :

3.15 Three Point Linkage:

- [D] Category : Category: , in conformity/ not in conformity with categories 1N, 1, 2N, 2, 3N, 3, 4N and 4 of ISO 730: 2009.
- [D] Category adapter : Provided / Not provided

3.15.1 Holed Drawbar

: Provided / Not provided

3.15.2 Swinging Drawbar

: Provided / Not provided

- [D] Maximum vertical permissible load, (kN) :

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3.16 Trailer Hitch:

- [D] Type :
- [D] Location :
- [D] Height above Ground level (mm) :
- [D] Maximum :
- [D] Minimum :
- [D] Method of changing height :
- [D] Maximum vertical permissible load, (kN) :

3.17 Steering System:

- [D] Make :
- [D] Model :
- [D] Type of steering system :
- [D] Method of operation:
- [D] - Pump(s) :
- [D] - Ram(s) :
- [D] Working pressure, (MPa) :
- [D] Type of steering gearbox :
- [D] Location of steering gearbox :
- [D] Diameter of steering control wheel, (mm) :

Details of hydrostatic steering system, if provided:

- [D] Make & Type of distributor :
- [D] Pressure setting of relief valve :
- [D] Make of pump :
- [D] Type of pump :
- [D] Location of pump :
- [D] Method of drive of pump :
- [D] Make & type of hydraulic ram cylinder :
- [D] Location of ram cylinder :

3.18 Brakes:**3.18.1 Service Brake:**

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Type of brake disc :
- [D] Number of brake disc :
- [D] Area of lining on each wheel side, (cm²) :
- [D] Material of brake liner :
- [D] Location of braking system :
- [D] Method of operation :
- [D] Trailer braking take-off (hydraulic or air brake) :

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3.18.2 Parking brake:

- [D] Type :
- [D] Location :
- [D] Method of operation :

3.19 Wheels:**3.19.1 Front Wheel(s):**

- [D] Make :
- [D] Type :
- [D] Number(s) :
- [D] Size and Ply rating of tyres :
- [D] Recommended inflation pressure, kPa/(kgf/cm²):
- [D] - For field work :
- [D] - For road work :
- [D] Maximum permissible load on each tyre at inflation pressure recommended for road work, (kN) :
- [D] - Tyre manufacturer's :
- [D] - Tractor manufacturer's :
- [D] Standard track width, (mm) :
- [D] Other track width(s), (mm) :
- [D] Method of changing track width :
- Wheel Rims:** :
- [D] - Make :
- [D] - Type :
- [D] - Size (should conform to the requirement of CMVR) :

3.19.2 Rear Wheel(s):

- [D] Make :
- [D] Type :
- [D] Number(s) :
- [D] Size and Ply rating of tyres :
- [D] Recommended inflation pressure, kPa/(kgf/cm²):
- [D] - For field work :
- [D] - For road work :
- [D] Maximum permissible load on each tyre at inflation pressure recommended for road work, (kN) :
- [D] - Tyre manufacturer's :
- [D] - Tractor manufacturer's :
- [D] Standard track width, (mm) :
- [D] Other track width(s), (mm) :
- [D] Method of changing track width :

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Date :		Date :

- Wheel Rims:** :
- [D] - Make :
- [D] - Type :
- [D] - Size (should conform to the requirement of CMVR) :

- 3.19.3 Wheel base** :
- [D] Method of changing wheel base, if any :

3.20 Protective structure:

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Manufacturers name and address :
- [D] Protective device :
- [D] Tilttable / not tilttable :

OECD approval:

- [D] Approval number :
- [D] Date of approval :
- [D] Number of minor modification certificates, if any :

3.21 Seat:

3.21.1 Driver's seat:

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Seat and steering wheel reversible :
- [D] Type of suspension :
- [D] Type of damping :

Range of adjustment:

- [D] Longitudinally :
- [D] Vertically :
- [D] Safety belt :

3.21.2 Optional driver's seat(s):

- [D] Make :
- [D] Model :
- [D] Type :
- [D] Type of suspension :
- [D] Type of damping :

Range of adjustment:

- [D] Longitudinally :
- [D] Vertically :

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3.21.3 Passenger seat:

[D] Location :

[D] Capacity (number) :

3.22	Mass and Ballast:	Front	Rear	Total
3.22.1	Unballasted Tractor: (The mass of the tractor without ballasting devices; and in the case of tractors with pneumatic tyres, without liquid ballast in the tyres. The tractor shall be in running order with tanks, circuits and radiator full and any track equipment or additional front wheel drive components required for a normal use. The driver mass is not included.)			
3.22.2	Ballasted Tractor: (The mass of the tractor with ballasting devices; and in the case of tractors with pneumatic tyres, sometimes with liquid ballast in the tyres. The tractor shall be in running order with tanks, circuits and radiator full and any track equipment or additional front wheel drive components required for a normal use. The driver mass is not included.)			

3.22.3 Approximate recommended ballast for different test:					
	Ballast mass		For drawbar test	For field test	For road test
	Front - C.I. Ballast (kg)	:			
	- Water ballast (kg)	:			
	Rear - C.I. Ballast (kg)	:			
	- Water ballast (kg)	:			
	Front - Location of C.I. ballast weights	:			
	Rear - Location of C.I. ballast weights	:			

3.23 Overall dimensions:

	Length [mm]	Width		Height at top of	
		Minimum [mm]	Maximum [mm]	Protective Structure [mm]	Exhaust pipe [mm]
Unballasted					
Ballasted					

3.23.1 Ground clearance (unballasted tractor) : ----- mm

[D] Clearance – limiting part :

3.24 Colour of tractor:

[D] - Chassis & Engine :

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- Sheet metal :
- [D] - Bonnet :
- [D] - Mudguards :
- [D] - Wheel rims :

3.25 Oils and lubricants:

3.25.1 Capacity and change interval:

S. No.	Particulars	Recommended grade	Capacity (dm ³)	Oil change (h)	Filter change (h)
i)	Air cleaner oil				
ii)	Bare engine sump				
iii)	Total lub. oil of engine				
iv)	Steering housing				
v)	Gearbox housing oil				
vi)	Differential housing oil				
vii)	Front axle				
viii)	Rear axle				
ix)	Final drive (front)				
x)	Final drive (rear)				
xi)	Hydraulic system (*)				
xii)	Other (Steering,.....)				
xiii)	Grease				

(*) State if common with gear box and rear axle.

3.25.2 Specifications (SAE, API, CCMC, ACEA, Mil.L, ISO):

	Recommended	Used during test
Engine:		
Type		
Viscosity		
Classification		
Transmission, Service brake , Rear axle and rear final drive oil:		
Type		
Viscosity		
Classification		
Hydraulic oil:		
Hydraulic fluid type		
Viscosity index (ISO 3448: 1992+ corr 1: 1993)		
Viscosity at 65 °C		
Front Axle and front final drive oil:		
Type		
Viscosity		
Classification		

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Steering oil:		
Type		
Viscosity		
Classification		

3.25.3 Grease:

Number of lubrication points :
 Number of oiling points (if any) :
 Grease cups (if any) :

3.25.4 Tightening torque (kgmf):

i) Cylinder head nut & bolts :
 ii) Main bearings nut & bolts :
 iii) Big end bearings nut & bolts :
 iv) Flywheel bolts :

3.26 Performance Characteristics (Please refer IS:12207-2014 for declaration of values):

	Characteristics	Requirements/Tolerance as per IS:12207-2014	Declaration
1	2	3	4
(1)	PTO Performance :		
a)	- Max. power under 2 h test, (kW) (Natural ambient condition)	Declared value to be achieved with a tolerance of: -5 / +10% for PTO power >26 kW. -7.5/+10% for PTO power ≤ 26kW	
b)	Power at rated engine speed, (kW)		
c)	Specific fuel consumption corresponding to maximum power, (g/kWh)	+ 5%	
d)	Maximum equivalent crankshaft torque, (Nm)	± 8%	
e)	Equivalent crankshaft torque at maximum power, Nm (kgf-m)	--	
f)	Back-up torque, percent	10 percent, min.	
g)	Maximum operating temperature (°C)		
	- Engine oil	The declared value should not exceed the max. value specified by the oil company and the observed value under high ambient condition should not exceed the declaration.	
	- Coolant (water)	The declared value should not exceed the boiling temperature of coolant under the pressurized or otherwise and the observed value under high ambient condition should not exceed the declaration.	
	- Boiling temperature of coolant at recommended radiator cap pressure		
	- Cylinder liner wall (in case of air cooled)	--	
h)	Engine oil consumption, (g/kWh)	Not exceeding 1% of SFC at max. power under High ambient conditions	
i)	Smoke level [At 80 % load in a speed bend of Maximum power and 55% of speed corresponding to Maximum power or 1000 rpm whichever is high]	Maximum light absorption coefficient of 3.25 per metre or equivalent BOSCH No. 5.2 or 75 Hatridge value (As per CMVR)	

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1	2	3	4
(2)	Drawbar Performance :		
a)	Max. drawbar pull with ballast corresponding to 15 percent wheel slip, (kN)	Minimum 65% of static mass with ballast	
b)	Max. drawbar pull without ballast/ with standard ballast corresponding to 15 percent wheel slip, (kN)	Minimum 65% of static mass of tractor without ballast/ with standard ballast	
c)	Maximum drawbar power without ballast/with standard ballast, (kW).	Min. 80% of PTO power as referred in 4.1 l(a) of PTO performance	
e)	Max. transmission oil temperature (°C)	The declared value should not exceed the maximum value specified by oil company	
(3)	Power lift and hydraulic pump performance:		
a)	Maximum lifting capacity throughout the range of lift, (kN):		
	- At hitch points	[Tolerance, minus 10%]	
	- With the standard frame	The lift capacity should at least be 24 kg/PTO kW. and it should be 21.5 kg/engine kW where the tractor is not provided with a PTO shaft	
b)	Maximum drop in the height of the point of application of the force after each 5 minutes interval for a total duration of 30 minute, (mm)	The observed value should not exceed 50 mm.	
(4)	Brake performance at 25 kmph travel speed:		
a)	Maximum stopping distance at a force, equal to or less than 600 N on brake pedal with ballast, (m):		
	-Cold brake	10	
	-Hot brake	10	
b)	Maximum force exerted on the brake pedal to achieve a deceleration of 2.5 m/s ² (N)	600	
c)	Whether parking brake is effective at a force of 600 N at foot pedal(s) or 400 N at hand lever	Yes / No	
(5)	Noise measurement :		
a)	Maximum ambient noise emitted by the tractor dB(A)	88 (As per CMVR)	
b)	Maximum noise at operator's ear level dB(A)	96 (As per CMVR)	
(6)	Amplitude of mechanical vibrations at :		
	-Foot rest (left / right)	100 microns (max)	
	-Seat (with driver seated)	100 microns (max)	
	-Steering wheel	100 microns (max)	
(7)	Air Cleaner Oil Pull Over:		
	Max. percentage of oil pull over	0.25 % Maximum	
(8)	Water proofing Test:		
	Whether the tractor is recommended for water proofing test	Yes/No	
(9)	Limits and Tolerances:		
(9.1)	Initial setting and discard limits of following measurements:	Initial Setting	Discard limit
i)	- Cylinder bore dia (mm)		
ii)	- Cylinder bore taperness and ovality (mm)		
iii)	- Piston dia at the skirt (mm)		
iv)	- Piston to cylinder clearance at the skirt (mm)		

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1	2	3	4
v)	Piston ring end gap (mm):		
	- Compression rings		
	- Oil rings		
vi)	Piston ring groove clearance (mm):		
	- Compression rings		
	- Oil rings		
vii)	Clearance of main bearings (mm):		
	Diametrical clearance		
	Crankshaft end float		
viii)	Clearance of big end bearings, (mm):		
	Diametrical		
	Axial		
ix)	Clearance between king pin and bush, (mm)		
x)	Clearance between center pin and bush, (mm)		
xi)	Clearance between valve guide and stem (mm)		
xii)	Spring index of valve springs N/mm/(kgf/mm)		
	Inner spring		
	Outer spring		
xiii)	Backlash of timing gears (mm)		
xiv)	Overall thickness of clutch plate (mm)		
	- Transmission clutch		
	- PTO shaft		
xv)	Height of lining over rivet head of clutch lining (mm)		
	- Transmission clutch		
	- PTO shaft		
xvi)	-Thickness of brake lining (mm)		
	Height of lining over rivet head of brake lining (mm)		
	Depth of oil groove of brake disc in case of oil immerse brake		
(9.2)	Backlash of transmission gears (mm):		
i)	- Transmission gears		
ii)	- Crown wheel and pinion		
iii)	- Final drive gear		
iv)	- Safety features, if any		

(10)	Optional requirements :	Requirements	Declaration
i)	Seating requirements	Should meet the requirements of IS: 12343-1998	Conforms/Does not conform
ii)	Fitment of ROPS	With a provision for fitment of ROPS. If ROPS fitted it should meet the requirement of IS: 11821-1992	Provided/ not provided
iii)	Technical requirements for PTO shaft	Should meet the requirements of IS: 4931 -1995	Conforms/Does not conform
iv)	Dimensions of three point linkage	Should meet the requirements of IS: 4468 (Part-I)-1997	Conforms/Does not conform
vii)	Specifications of linkage and swinging drawbars	Should meet the requirements of IS: 12953-1990 and IS:12362 Part 3-1994.	Conforms/Does not conform
viii)	Accessories	Trailer hitch, front tow hook, linkage drawbar may be provided.	Provided/ not provided

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PRE-TEST CONDITION CERTIFICATE

FOR OECD TEST

Make of tractor :
 Model of tractor :
 Test procedure : OECD Code 2

- (a) The selection procedure followed for submitting the tractor meets the requirement of clause **3.1 of OECD Code - 2**.
- (b) It is certified that the specification of machine submitted for test conforms to the production model in all respects, which we propose to introduce.
- (c) I hereby declare that information given above in page no. 1 to 22 is as per design / drawings of the prototype/commercial model of tractor submitted for **OECD test** and is correct to the best of my knowledge and belief.
- (d) It is also understood that the test will be carried out on the machine as it stands together with accessories and attachments essential to the satisfactory performance of the machine. We will not be allowed to introduce alternations or modifications on the machine which should affect its normal performance during the progress of tests. If any major modifications or alterations are considered necessary, we shall withdraw the machine from tests and submit another machine of same make and model with fresh application for testing.

I / We do hereby abide by the above preconditions mentioned in (a), (b), (c) & (d) above in respect of the test sample submitted for Test at this Institute and in case of any violation of any of the above we shall withdraw the tractor from test.

Signature of Applicant / Authorized :
 signatory
 Name & Designation :
 Address: :
 Telephone No. :
 Fax No. :
 Date :

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