



भारत सरकार /Government of India

उत्तरी क्षेत्र कृषि मशीनरी प्रशिक्षण एवं परीक्षण संस्थान

Northern Region Farm Machinery Training and Testing Institute ट्रैक्टर नगर, सिरसा रोड, हिसार)हरियाणा—(125001 Tractor Nagar, Sirsa Road, Hisar (Haryana)- 125 001 Website: http://nrfmtti.gov.in E-mail: fmti-nr@nic.in GSTIN:06AAAGN0273PIZ3 Tele./FAX: 01662-276984

TECHNICAL SPECIFICATIONS FOR SELF PROPELLED COMBINE HARVESTER (TRACK TYPE) FOR BATCH/ADMINISTRATIVE/TECHNICAL EXTENSION

1.1	General:		Previous sample as per test report No	Present sample	Remarks
1	2	3	4	5	6
	Name & address of manufacturer	:			
	Name & address of applicant/importer	:			
	Make	:			
	Model	:			
	Brand name (if any)	:			
	Туре	:			
	Year of manufacture	:			
	Serial No./Chassis No.	:			
	Country of origin	:			
	Type of crops recommended for harvesting	:			
1.2	Prime mover:				
	Make	:			
	Model	:			
	Type	:			
	Serial No.	:			
	Engine speed (rpm) (Manufacturer's r	econ	nmended setting)		
	Maximum speed at no load, rpm	:	87		
	Rated speed, rpm	:			
	No load engine speed recommended for field operation, rpm	:			
	Low idle speed, rpm	:			
	Location	:			
	Country of origin	:			

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	Whether the prime mover has already	:			
	been tested by authorized testing centre				
	(Yes/No)				
	If yes, then specify valid test report No.	:			
	and upload copy of the test report Details of Emission Certificate if any	:			
1.2.1	Cylinder and cylinder head:	•			
1,2,1	Number	١.			
		:			
	Disposition Bore/Stroke, mm	:			
		:			
	Capacity, cm ³	: 			
	Compression ratio	+ :			
	Arrangement of valves	:			
	Type of cylinder liners	:			
	Type of head	:			
	Type of combustion chamber	:			
	Valve clearance in cold (mm):				
	-Inlet valve	:			
	-Exhaust valve	:			
1.2.2	Fuel system:				
	Type of fuel system	:			
1.2.2.1	Fuel tank:				
	Material	:			
	Size, mm	:			
	Capacity, 1				
1222	E161	:			
1.2.2.2	Fuel feed pump: Make				
		:			
	Type	:			
	Model/Group combination number	:			
1000	Provision of sediment bowl	:			
1.2.2.3	Fuel filters:				
	Make	:			
	Model/Group combination No.	:			
	Number (s)	:			
	Type of element:				
	Primary	:			
	Secondary	:			
	Capacity of final stage filter, l	:			
	Provision of water separator	:			
	Make	:			
	Location	:			

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1.2.2.4	Fuel injection pump:						
	Make	:					
	Model/Group combination No.	:					
	Type	:					
	Method of drive	:					
1.2.2.5	Fuel injectors:						
	Make	:					
	Туре	:					
	Model/Group combination No.	:					
	Injection opening pressure, kgf/cm ²	:					
	Injection timing, degree	:					
	Firing order	:					
1.2.3	Governor:						
	Make	:					
	Туре	:					
	Model/Group combination	:					
	number/Designation						
	Governed range of engine speed, rpm	:					
1.2.4	Air Intake System:						
	Type	:					
1.2.4.1	Pre-cleaner:						
	Make	:					
	Туре	:					
	Number	:					
	Location	:					
1.2.4.2	Air cleaner:						
	Make	:					
	Type	:					
	Number	:					
	Location	:					
	Type of element	:		1		1	
	Size of filter element (mm):		Primary (outer)	Secondary (inner)	Primary (outer)	Secondary (inner)	
	Inner dia.	:					
	Outer dia.	:					
	Length	:					
	Service indicator	:		1		ı	
	Dust unloading valve	:					
	Recommended service Schedule, h	:					
	Suction pressure at max. power, kPa	:					
1.2.5	Exhaust:						
	Make	:					

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1	2	3	4	5	6
	Type	:			
	Pressure at max. power, kPa	:			
	Provision of spark arresting device/any	:			
	other device				
1.2.5.1	Details of turbocharger				
	Make	:			
	Model	:			
	Number of fan/wheels	:			
	Number of blades:				
	Turbine wheel	:			
	Compressor fan	:			
	Method of drive	:			
	Means of lubrication	:			
1.2.5.2	Charged air cooler (CAC) unit:				
	Туре	:			
	Make	:			
	Size(LXWXH), mm	:			
	No of Tubes	:			
1.2.5.3	EGR:				
	Make	:			
	Туре	:			
	Part No.	:			
1.2.5.4	Exhaust treatment system:				
1.2.5.4.1	Diesel Oxidation Catalyst (DOC):				
	Make	:			
	DOC description	:			
	Part No.	:			
	Location	:			
1.2.5.4.2	Selective catalyst Reduction (SCR):				
	Make	:			
	Description	:			
	Location	:			
	Details of diesel exhaust fluid tank:				
	Capacity, 1	:			
	Location	:			
	Material of construction	:			
	Provision of draining	:			
	Recommended diesel exhaust fluid	:			
1.2.6	Lubrication system	:			
	Туре	:			

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	Type of oil pump	:			
	Method of drive	:			
	Lube oil pump rpm corresponding to	:			
	rated rpm of engine, rpm				
	Oil sump capacity, l	:			
	Oil change period, h	:			
	Recommended grade of oil	:			
1.2.6.1	Filters:				
	Make	:			
	Numbers	:			
	Type of oil filters	:			
	Relief valve pressure setting, kgf/cm ² ,	:			
	Minimum permissible pressure, kgf/cm ²	:			
1.2.6.2	Provision of oil cooler:				
	Туре	:			
	Make	:			
	Part No.	:			
	No. of plates	:			
1.2.7	Cooling system:				
1.2.7	Type	:			
1.2.7.1	Water pump:	ŀ			
1,2,,,1	Make	:			
	Туре	:			
	No. of vanes	:			
	Dia. of impeller	:			
	Method of drive	:			
1.2.7.2	Details of fan:				
	Material & type	:			
	No. of blade	:			
	Size, mm	:			
1.2.7.3	Radiator:				
	Make	:			
	Type of radiator cap	:			
	Radiator cap pressure, kgf/cm ²				
	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	:			

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1.2.9 Starting sy Type Any aid for Any other of starting 1.2.10 Electrical starting 1.2.10.1 Starter mo Make Type Model/ Groe Capacity/Po Location 1.2.10.2 Alternator Make Model/Groe Output ratin Location Method of other	cold starting levice provided for easy ystem: tor: up combination No. ower, kW	:				
Type	cold starting levice provided for easy ystem: tor: up combination No. ower, kW	: : : : : : : : : : : : : : : : : : : :				
Any aid for Any other constarting	ystem: tor: up combination No. ower, kW	: : : : : : : : : : : : : : : : : : : :				
Any aid for Any other constarting	ystem: tor: up combination No. ower, kW	:				
Starting	ystem: tor: up combination No. ower, kW up combination No.	: : : : : : : : : : : : : : : : : : : :				
1.2.10 Electrical starter model	up combination No. ower, kW up combination No.	:				
Nake Type Model/ Grown	up combination No. ower, kW up combination No.	:				
Make Type Model/ Grow Capacity/Po Location	up combination No. ower, kW up combination No.	:				
Type Model/ Grow Capacity/Pound Location	ower, kW in prombination No.	:				
Model/ Gro Capacity/Po Location	ower, kW in prombination No.	:				
Capacity/Po Location 1.2.10.2 Alternator Make Model/Grow Output ration Location Method of of 1.2.10.3 Voltage reg 1.2.10.4 Battery: Make Model/Typ Type Capacity No. & locat 1.2.10.5 Details of I 1.2.10.5.1 Previous sa	ower, kW in prombination No.	:				
Location	p combination No.	:				
1.2.10.2 Alternator Make Model/Grown Output ratin Location Method of of 1.2.10.3 Voltage residuals 1.2.10.4 Battery: Make Model/Type Type Capacity No. & locat 1.2.10.5 Details of I 1.2.10.5.1 Previous sa	up combination No.	:				
Make Model/Grown	up combination No.	:				
Model/Ground	-	:				
Output ration Location Method of of the state of the st	-					
Location Method of of open color	ıg					
Method of a 1.2.10.3 Voltage reg 1.2.10.4 Battery: Make Model/Typ Type Capacity No. & locat 1.2.10.5 Details of 1 1.2.10.5.1 Previous sa		:				
1.2.10.3 Voltage regal 1.2.10.4 Battery: Make Model/Type Type Capacity No. & locat 1.2.10.5 Details of l 1.2.10.5.1 Previous sa		:				
1.2.10.4 Battery: Make Model/Typ Type Capacity No. & locat 1.2.10.5 Details of I 1.2.10.5.1 Previous sa	drive	:				
Make Model/Type Type Capacity No. & locat 1.2.10.5 Details of l 1.2.10.5.1 Previous sa	.3 Voltage regulator					
Model/Type	Battery:					
Type Capacity No. & locat 1.2.10.5 Details of l 1.2.10.5.1 Previous sa		:				
Capacity No. & locat 1.2.10.5 Details of 1 1.2.10.5.1 Previous sa	No.	:				
No. & locat 1.2.10.5 Details of l 1.2.10.5.1 Previous sa		:				
1.2.10.5 Details of I 1.2.10.5.1 Previous sa		:				
1.2.10.5.1 Previous sa	ion	:				
	ights:					
Description	mple:					
•	No. & capacity of	Hei	Height above ground to the		Size of	Distance from
	bulb	C	centre of beam (mn		beam, (mm)	centre of the
			As per	As		beam to outside
			uirements CMVR	observed		edge of combine (mm)
Head lights			00 (Max.)			(111111)
Front turn indicator light			00 (Max.)			
Front parking light			00 (Max.)			
Front field working light			applicable			
Grain unloading light			applicable			
Side inspection light		- 100	applicable			
Engine inspection light			applicable			

:

Coolant water ratio

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Top rear light		Not applicable			
Rear turn indicator light		2100 (Max.)			
Rear parking cum position light		2100 (Max.)			
Rear brake light		2100 (Max.)			
Reverse gear indicator		2100 (Max.)			
light					
Number plate light		2100 (Max.)			
Straw walker inspection		2100 (Max.)			
light Reflectors:					
Front reflectors		2100 (Mars)			
Rear reflectors		2100 (Max.)			
		2100 (Max.)			
Side reflectors		Not applicable			
SMVE		Not applicable			
Trailer light:					
Brake light		2100 (Max.)			
Turn indicator light		2100 (Max.)			
Parking cum position		2100 (Max.)			
light					
Reverse gear indicator		2100 (Max.)			
light					
Number plate light		2100 (Max.)			
Reflectors:					
Rear reflector		2100 (Max.)			
Side reflector		2100 (Max.)			
SMVE		Not applicable			
1.2.10.5.2 Present samp	le.				
Description Description	No. & capacity of	Height above gr	round to the	Size of	Distance from
Description	bulb	centre of bea		beam, (mm)	centre of the
	0 410	As per	As	(11111)	beam to outside
		requirements	observed		edge of combine
		of CMVR			(mm)
Head lights		3000 (Max.)			
Front turn indicator light		2100 (Max.)			
Front parking light		2100 (Max.)			
Front field working lights		Not applicable			
Grain unloading light		Not applicable			
Side inspection light		Not applicable			
Engine inspection light		Not applicable			
Top rear light		Not applicable			

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Pear turn i	ndicator light	<u> </u>	21	00 (Max.)	<u> </u>			
	parking cum			00 (Max.)			_	
position li			21	(1414.1)	İ			
Rear brake light			21	00 (Max.)		1		
	gear indicator		21	00 (Max.)				
light								
Number pl	ate light			00 (Max.)				
	ker inspection		21	00 (Max.)	ı			
light Reflectors								
Front refle			21	00 (Max.)				
Rear reflec				` ′				
Side reflec				00 (Max.)		 		
SMVE	tors			t applicable				
			No	t applicable		<u> </u>		
Trailer lig		T	1 -	00.05				
Brake ligh				.00 (Max.)				
Turn indic				00 (Max.)				
_	cum position		21	00 (Max.)				
light								
Reverse	gear indicator		21	00 (Max.)				
light								
Number pl			21	.00 (Max.)				
Reflectors				,				
Rear reflec	ctor		21	.00 (Max.)				
Side reflec	etor		21	.00 (Max.)				
SMVE			No	t applicable				
1.2.10.6	Horn:			Previous s per test re No		Present sa	ample	Remarks
	Make		:	110				
	Туре		:			+		
	Numbers		:					
	Location		•					
1.3	Combine:							
1.3.1	Track laying o	eauipments:						
1.3.1.1	Track:	1 -F						
	Make		:					
	Туре		:					
	Number		:					
	Track distance	/spacing, mm	:					
	Width of track,		:					
	Grouser height		:					
	T CHANGOL HOISHI	, 111111				I		ĺ
	Number of gro		:					

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	Grouser pitch, mm	:			
	Length of track on ground, mm	:			
	Total ground contact area, sq.m	:			
	Nominal ground pressure, kg/cm ² :				
	-Bare machine	:			
	-With grain tank full (with paddy)	:			
	Method of track tensioning	:			
1.3.1.2	Drive sprocket:				
	Diameter, mm	:			
	No. of teeth, mm	:			
	Face width, mm	:			
	Pitch of teeth, mm	:			
	No. & type of bearing	:			
1.3.1.3	Type of suspension	:			
1.3.1.4	Guide roller/Idler:				
	Number	:			
	Diameter, mm	:			
	Face width, mm	:			
	Method of mounting	:			
1.3.1.5	Carrier rollers:				
	Number	:			
	Diameter, mm	:			
	Face width, mm	:			
	Lubricants	:			
	Method of mounting	:			
1.3.1.6	Track roller:				
	Number	:			
	Diameter, mm	:			
	Face width, mm	:			
	Lubricant	:			
	Distance between front track roller to rear, mm	:			
	Distance between centre of drive				
	sprocket & idler roller, mm	:			
1.3.1.6	Balancer/Support rollers:				
	Number	:			
	Diameter, mm	:			
	Face width, mm	:			
	Lubricant	:			
	Method of mounting	:			
1.3.2	Transmission system:				
	Туре	:			
	·				· '

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1.3.2.1	Clutch (if applicable):				
	Make	:			
	Туре	:			
	Size, mm	:			
	No. of friction discs	:			
	Location	:			
	Method of operation	:			
1.3.2.2	HST unit:				
	Make	:			
	Model				
	Serial No.	:			
	Part No.	:			
1.3.2.3	Gear box:				
	Make	:			
	Model	:			
	Туре	:			
	Location	:			
	No. of speeds (Forward & Reverse)	:			
	Method of drive	:			
	Method of gear shifting	:			
	Oil capacity, l	:			
	Recommended grade of oil	:			
	Oil change period, h	:			
1.3.2.4	Ground speed:				
1.3.2.4.1	Previous sample:				
	Position		Forward, kmph (at full throttle engine s	speed)
	1				
	2				
12212	3	1		1	Ι
1.3.2.4.2	Present sample:				
	Position		Forward, kmph (at full throttle engine s	speed)
	2				
	3				
1.3.3	Brakes:		Previous sample as	Present sample	Remarks
1.0.0			per test report		
1.3.3.1	Service brake:				
	Make	:			
	Туре	:			
	Area of disc/shoe at each wheel side	:			
	(cm ²)				
	Location	:			
	Method of operation	:			
		_			
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1.3.3.2	Parking brake:				
	Make	:			
	Type and location	:			
	Method of operation	:			
1.3.4	Steering system:				
	Make	:			
	Type	:			
	Model/Group combination number	:			
	Method of operation	:			
1.3.5	Hydraulic system:				
1.3.5.1	Hydraulic pump:				
	Type	:			
	Make	:			
	Model	:			
	Number(s)	:			
	Method of drive	:			
1.3.5.2	Hydraulic tank :				
	Туре	:			
	Number(s)	:			
	Location	:			
	Size (LxWxH), mm	:			
	Capacity of hydraulic tank, l	:			
	No. & type of oil filters	:			
	Recommended grade of oil	:			
	Oil change period, h	:			
1.3.5.3	Hydraulic oil coolers:				
	Number	:			
	Make	:			
	Туре	:			
	No. of tubes	:			
	Size, mm	:			
	Oil capacity, l	:			
1.3.5.4	No. of hydraulic cylinders	:			
1.3.6	Reel assembly:				
	Type	:			
	Type and Number of tine bars	:			
	Size of tine bars, mm:				
	Dia.	:			
	Length	:			
	Dia. and working width of reel, mm	:			
		1			1

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	Range of speed corresponding to	:			
	recommended no load speed of engine				
	for field work, rpm				
	Number of tines on each bar and their	:			
	spacing, mm				
	Maximum distance ahead of cutter bar	:			
	points, mm				
	Maximum distance behind of cutter	:			
	bar points, mm				
	Maximum vertical distance above the	:			
	cutter bar points from the centre of				
	reel, mm				
	Arrangement for raising and lowering the reel assembly	:			
	Arrangement for forward and backward movement of reel	:			
	Arrangement for variation of angle of	:			
	tine				
	Type of reel drive	:			
	Method of tensioning	:			
	Safety device in reel drive	:			
1.3.7	Cutter bar assembly:				
	Working width, cm	:			
	Effective cutter bar width, cm	:			
	No. & spacing of knife guards, mm	:			
1.3.7.1	Knife blades:				
	No. & type of knife blades	:			
	Marking:				
	Marking of manufacturer's name or recognized trade mark	:			
	Marking of batch or code number	:			
	Type and thickness	:			
	Details of knife drive	:			
	Knife drive safety arrangement	:			
	Knife stroke, mm	:			
	Knife frequency per minute	:			
	Knife speed corresponding to	:			
	recommended no load speed of engine for field work, rpm				
	No. & type of crop dividers	:			
	Arrangement for lifting lodged crop	:			
1.3.7.2	Knife guard:				
	No & type of knife guard	:			
	71 0	l	<u> </u>		<u> </u>

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	Provision of anti corrosive coating	:			
	Marking:				
	Manufacturer's name or recognized	:			
	trade mark				
	Batch or code number	:			
	Туре	:			
1.3.7.3	Knife back:				
	Туре	:			
	Marking:				
	Manufacturer's name or recognized	:			
	trade mark				
	Batch or code number	:			
1.3.8	Cutting platform auger:				
	Type of crop conveyor	:			
	Size of auger (Dia., Pitch & Width),	:			
	mm				
	Speed of auger corresponding to	:			
	recommended no load speed of engine				
	for field work, rpm				
	Arrangement for adjusting the	:			
	clearance of crop auger				
	Auger drive safety arrangement	:			
	Height of header assembly in the	:			
	transport position, cm				
	Arrangement for locking the header	:			
	assembly in raised position				
	Arrangement for side way tilting the	:			
	cutter bar				
1.3.9	Details of retractable fingers:				
	Number(s)	:			
	Range of throw out, mm	:			
	Axial spacing between the fingers, mm	:			
	Peripheral distance between the				
	fingers, mm	•			
	Arrangement for adjustment of fingers	:			
	length	•			
1.3.10	Undershot conveyor:				
	Type of feeder conveyor	:			
	No. & type of chains	:			
	No. size and spacing of comb bar	:	_		
	Conveyor drive safety arrangement	:			
	Arrangement for adjusting clearance	:			
	between comb and platform and				
	tensioning the chain				

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	Speed corresponding to recommended	:					
	no load engine speed of engine for						
	field work, rpm						
	No. & type of bearings	:					
1.3.11	Threshing drum:		For Wheat	For Paddy	For Wheat	For Paddy	
	Type	:					
	Outer diameter and width, mm	:					
	Range of speed corresponding to	:					
	recommended no load speed of engine						
	for field work, rpm						
	No. of bars	:					
	No. of pegs and their spacing on each	:					
	bar						
	No. of hub plate	:					
	Length of rasp bar/peg bar, mm	:					
	Height of pegs, mm	:					
	No. of rasps/100 mm	:					
	No. of rasps on each bar	:					
	Arrangement of bars	:					
	No. & type of bearings	:					
	Method of speed variation	:					
	Provision of stone trap	:					
	Safety device	:					
1.3.12	Concave:		For Wheat	For Paddy	For Wheat	For Paddy	
	Overall width of concave, mm	:					
	Effective width, mm	:					
	Type of concave	:					
	No. of bars	:					
	No. of pegs per bar & spacing	:					
	Height/ Spacing of the pegs, mm	:					
	Peripheral length, mm	:					
	Peripheral effective length, mm	:					
	Effective area, sq. cm.	:					
	Details of extension	:					
	Range of clearance (mm):	Ť					
	-Front	:					
	-Rear	:					
	Method of adjusting the clearance	:					
	between drum and concave						
1.3.13	Rear beater:			<u> </u>		1	
1.0.10	Type	•					
	Size of beater, length and width, mm	:					
	Speed corresponding to recommended						
	no load speed of engine for field	•					
	work, rpm						
1.3.14	Baffle plate (Deflector):						
1.0.17	Type	:					
	1 -71	. •			1		l

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1	2	3	4			5	6
	No. of flap	:					
	Size of baffle plate, mm	:					
1015	Method of flap adjustment	:					
1.3.15	Separating mechanism:						
1.3.15.1	Straw walkers (if applicable):						
	Number(s)	:					
	Туре	:					
	Size of each straw walker, mm:						
	Length	:					
	Width	:					
	Area of each walker, sq. m	:					
	Lift/throw, mm	:					
	Oscillations per minutes	:					
	corresponding to recommended no						
	load speed of engine for field work,						
	rpm						
	Provision for varying oscillations of	:					
	straw walkar						
	Type of extension	:					
	No. & type of bearings	:					
1.3.15.2	Stepped grain pan:						
	Туре	:					
	No. of hill divider	:					
	Size (Length x Width), mm	:					
	No. of steps	:					
	Effective area of pan, m ²	:					
	No. of extensions	:					
	Details of extension	:					
	Location	:					
	Inclination (degree)	:					
1.3.15.3	Cleaning sieves:						
1.3.15.3.1	Top sieve:						
	No. of sieve	:					
	Туре	:					
	Overall size of sieve (mm):		<u>Front</u>	Rear	Front	Rear	
	-Length	:					
	-Width	:					
	Effective cleaning area, mm ²	:					
	Area of extension, mm ²	:					
			4		•		

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Oscillation per minute corresponding				
Osemation per influte corresponding	:			
to recommended no load speed of				
_				
Lift/throw, mm	:			
Arrangement for varying the opening	:			
of the sieve				
Height of lips at max. opening, mm	:			
Method of varying oscillation	:			
Method of drive	:			
Bottom sieve:				
No. of sieve	:			
Туре	:			
Overall size of sieve, mm:				
Length	:			
Width	:			
Effective cleaning area, mm ²	:			
Oscillation per minute corresponding	:			
to recommended no load speed of				
engine for field work				
	:			
Arrangement for varying the opening of the sieve	:			
Blower:				
Dia mm				
	:			
	:			
Thickness	:			
	:			
Method of varying the blower speed	:			
	:			
recommended no load speed of				
engine for field work, rpm				
Method of controlling the air blast	:			
	:			
Type	:			
·	:			
Area, sq. m	:			
	:			
Inclination (degree) and method of adjustment if any	:			
	engine for field work Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve Blower: Dia. mm Effective width, mm No. & type of blade Size of blade, mm: Length Width Thickness Type of drive Method of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work, rpm Method of controlling the air blast No. & type of bearings Grain pan: Type Size, mm Area, sq. m Location Inclination (degree) and method of	engine for field work Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive Bottom sieve: No. of sieve Type Coverall size of sieve, mm: Length Width Effective cleaning area, mm² Coscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve Blower: Dia. mm Effective width, mm No. & type of blade Size of blade, mm: Length Width Thickness Type of drive Method of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work, rpm Method of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work, rpm Method of controlling the air blast No. & type of bearings Grain pan: Type Size, mm Area, sq. m Location Inclination (degree) and method of :	engine for field work Lift/throw, mm Arrangement for varying the opening of the sieve Height of lips at max. opening, mm Method of varying oscillation Method of drive Bottom sieve: No. of sieve Type Overall size of sieve, mm: Length Width Effective cleaning area, mm² Oscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve Blower: Dia. mm Effective width, mm No. & type of blade Size of blade, mm: Length Width Thickness Type of drive Method of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work Method of varying oscillation Thickness Type of drive Method of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work, rpm Method of controlling the air blast No. & type of bearings Grain pan: Type Size, mm Area, sq. m Location Inclination (degree) and method of engine for field work Lift/throw, mm 2 Arrangement for varying the opening of the sieve Height of lips at max. opening, mm 2 Method of varying oscillation Method of drive Bottom sieve: No. of sieve Type Coverall size of sieve, mm: Length Width Effective cleaning area, mm² Coscillation per minute corresponding to recommended no load speed of engine for field work Method of varying oscillation Arrangement for varying the opening of the sieve Blower: Dia. mm Effective width, mm No. & type of blade Size of blade, mm: Length Width Thickness Type of drive Method of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work Wethod of varying the blower speed Range of speed corresponding to recommended no load speed of engine for field work, rpm Method of controlling the air blast No. & type of bearings Crain pan: Type Size, mm Area, sq. m Location Inclination (degree) and method of I	

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1.3.15.6	Tailing pan:				
	Туре	:			
	Number	:			
	Size, mm	:			
	Location	:			
	Inclination, (degree) and method of	:			
1216	adjustment if any				
1.3.16	Grain conveying mechanism:				
1.3.16.1	Bottom grain conveyor:	H			
	Type Size of conveyor (length, dia. and	•			
	pitch), mm				
	Speed corresponding to recommended no load speed of engine for field				
	work, rpm				
	Type of drive	:			
	No. & type of bearings	:			
1.3.16.2	Grain elevator:				
	Type	:			
	Length of elevator, mm	:			
	Outside section, mm	:			
	No. & type of pad	:			
	Size of pads, mm	:			
	Spacing of pads, mm	:			
	Speed corresponding to recommended	:			
	no load speed of engine for field	•			
	work, rpm				
	Type of chain				
	Size of chain (Length, Roller Dia. &				
	Pitch), mm	•			
	No. of roller				
		:			
	Elevator drive safety arrangement	:			
	Method of tensioning the chain	:			
	Type of drive	:			
	No. & type of bearings	:			
1.3.16.3	Upper grain auger:				
	Type	:			
	Size of auger (Length, Dia. and	:			
	Pitch), mm				
	Speed corresponding to recommended	:			
	no load speed of engine for field work				
	, rpm				
	Drive safety arrangement	:			

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1	2	3	4	5	6
	Type of drive	:			
	No. & type of bearings	:			
1.3.17	Tailing conveying mechanism:	Ť			
1.3.17.1	Bottom tailing auger:				
		-			
	Type	:			
	Size of auger (length, dia. and pitch), mm	:			
	Speed corresponding to recommended	:			
	no load speed of engine for field				
	work, rpm				
	Type of drive	:			
	No. & type of bearings	:			
	Drive safety	:			
1.3.17.2	Tailing elevator:				
	Туре	:			
	Length of elevator box, mm	:			
	Outer section, mm	:			
	No. & type of pads	:			
	Size of pads, mm	:			
	Spacing of pads, mm	:			
	Type of chain	:			
	Size of chain (Length, Roller dia. &	:			
	Pitch), mm				
	No. of rollers	:			
	Method of tensioning the chain	:			
	Elevator drive safety arrangement	:			
	Type of drive	:			
	Speed corresponding to recommended no load speed of engine for field				
	work, rpm				
1.3.17.3	Upper tailing auger:				
1.0.17.0	Type	:			
	Size (length, dia. and pitch), mm	:			
	Speed corresponding to recommended	:			
	no load speed of engine for field				
	work, rpm				
	Type of drive	:			
	No. & type of bearings	:			
	Drive safety	:			
1.3.18	Grain tank:				
	Location	:			
	Capacity:				
	Volume basis, m ³	:			
	Method of agitating the grains in tank	:			
	Size of grain tank opening, mm	:			
	Provision of grain tank cover	:			
		1	<u> </u>		<u> </u>

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1	2	3	4	5	6
	Provision for indication of grain tank	:			
	filling				
1.3.18.1	Grain conveying auger (Bottom of gr	ain	tank).		
1.0.10.1	Type		tunk).		
	Size (Length, Dia. & Pitch), mm	:			
	Speed corresponding to recommended	:			
	field operation rpm of engine for field				
	work, rpm				
	Type of drive	:			
	No. & type of bearings	:			
	Safety device	:			
1.3.18.2	Grain unloading auger:				
1,0,12,0,2					
	Type Size (length die and nitch)	:			
	Size (length, dia. and pitch), mm Horizontal reach, cm	:			
	Discharge height above ground level,	:			
	cm	:			
	Clearance height, cm	:			
	Speed corresponding to	:			
	recommended no load speed of	•			
	engine for field work, rpm				
	Type of drive	:			
	No. & type of bearings	:			
	Safety device	:			
1.4	Safety devices provided on the machi				
1.4.1	Previous sample:				
i)	•				
ii)					
iii)					
iv)					
v)					
vi)					
vii)					
1.4.2	Present sample:				
i)					
ii)					
iii)					
iv)					
v)					
vi)					
vii)	D . N . 40		•		
1.5	Details of Operating controls, gauges	an	d instruments		
1.5.1	Previous sample:				
i)					
ii) iii)					
111)					

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• `					
iv)					
<u>v)</u>					
vi)					
vii)					
11.5.2	Present sample:				
i) ii) iii)					
ii)					
iii)					
iv)					
vi) vi) vii)					
vi)					
1.6	Seat:		Previous sample as per test report No	Present sample	Remarks
	Make	:			
	Туре	:			
	Type of suspension	:			
	Type of dampening	:			
	Horizontal adjustment, mm	:			
	Adjustment of back rest, mm	:			
1.7	Canopy:				
	Type	:			
	Canopy size, mm	:			
	Height from operator's platform, mm	:			
1.8	Overall dimensions of combine harve	ste	r, cm:		
	Length	:			
	Width	:			
	Height	:			
1.9	Mass:				
	Mass of combine harvester with				
	coolant, fuel, lubricants & grain tank				
	(wheat) full and 75 kg mass on the operator's seat, kg				
	Total				
	Front	•			
	Rear	:			
1.10	Ground clearance, mm	:			
1.11	Total number of lubricating points:	•			
1,11	Grease Nipples/grease holes	:			
	Greasing cups	:			
	Oiling	:			
1.12	Colour of combine:	Ė			
	Reel and chassis	:			
	Header unit and lower sheet metal	:			1
		•		<u>I</u>	

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	Upper sheet metal		:			
	Control panel		:			
	Canopy		:			
1.13	Header transport trailer					
	Type		:			
	Size (L×W×H), mm		:			
	No. & type of wheel		:			
	Make		:			
	Size & Ply rating		:			
	Track width (mm)		:			
	Height of trailer hitch in tra	nsport	:			
	position, mm					
1.14	Details of labelling plate:					
1.14.1	Previous sample:					
1.14.2	Present sample:					
1.15	Lubricants:					
1.15 1.15.1	Previous sample:					
		As	re	commended by the	Oil change per	iod (h)
1.15.1 Sr. No.	Previous sample: Particulars	As	re	commended by the applicant	Oil change per	iod (h)
1.15.1	Previous sample:	As	re		Oil change per	iod (h)
1.15.1 Sr. No.	Previous sample: Particulars Engine oil	As	s re		Oil change per	iod (h)
1.15.1 Sr. No.	Previous sample: Particulars Engine oil Hydraulic oil and Power	As	s re		Oil change per	iod (h)
1.15.1 Sr. No. 1. 2.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil	As	s re		Oil change per	iod (h)
1.15.1 Sr. No.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive	As	s re		Oil change per	iod (h)
1.15.1 Sr. No. 1. 2. 3.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil	As	s re-		Oil change per	riod (h)
1.15.1 Sr. No. 1. 2. 3. 4.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease	As	re		Oil change per	iod (h)
1.15.1 Sr. No. 1. 2. 3.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil	As	s re		Oil change per	iod (h)
1.15.1 Sr. No. 1. 2. 3. 4.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease				Oil change per	
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars			applicant		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample:			applicant commended by the		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2 Sr. No.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars Engine oil			applicant commended by the		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2 Sr. No.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars Engine oil Hydraulic oil and Power			applicant commended by the		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2 Sr. No. 1. 2.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars Engine oil Hydraulic oil and Power steering oil			applicant commended by the		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2 Sr. No.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive			applicant commended by the		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2 Sr. No. 1. 2. 3.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil			applicant commended by the		
1.15.1 Sr. No. 1. 2. 3. 4. 1.15.2 Sr. No. 1.	Previous sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive housing oil Grease Present sample: Particulars Engine oil Hydraulic oil and Power steering oil Transmission and final drive			applicant commended by the		

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2. TECHNICAL SPECIFICATIONS FOR STRAW CHOPPER CUM SPREADER (SMS) (IF FITTED)

2.1	General:		
	Make of SMS	:	
	Model of SMS	:	
	Type of SMS	:	
	Name and complete Address of the	:	
	manufacturer of SMS including		
	PIN/Mob./email etc.		
2.2	Rotor:		
	Rotor Diameter, mm	:	
	No. of lugs on rotor in a row	:	
	No. of rows in a periphery	:	
	Width of flail, mm	:	
	Thickness of flail, mm	•	
	No. of flail in one set	•	
	Spacing between flail of one set, mm	·	
	Distance between adjacent flail unit,	•	
	mm	•	
	Rotor dia with blade, mm	:	
	No. of Rows/bar of serrated blade	·	
	No. of serrated blade in a row	•	
	Spacing between serrated blades, mm		
	Clearance between pivotal blade and	•	
	concave	•	
	Overlapping of pivotal blade on serrated	:	
	blade, mm		
	Rotor rpm	:	
2.3	Transmission:	:	
	Diameter of Drive Pulley	:	
	Diameter of Driven pulley	:	
2.4	Spreader:		
	Total no of flap, mm	:	
	Length of flap, cm	:	
	Distance between flaps (left to right)	:	
	Spreader angle with horizontal, degree	:	
	Spreader angle with line of travel,	:	
	degree		
	Spreader sheet thickness, mm	:	
	SMS sheet thickness, mm	:	
2.5	Overall dimensions (mm):		
	Length	:	
	Width	:	
	Height	:	
2.6	Overall Mass, kg	:	
2.7	SAFETY REQUIREMENT FOR SMS:		
	Guards over all moving parts	:	
1	RPM indicator of rotor	١.	

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	Overlapping of flail and fixed serrated blade (The clearance should be adjustable)	:	
2.10	Details of labelling plate:		

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SELECTED PERFORMANCE AND OTHER CHARACTERISTICS AS PER IS 15806-2018 (TO BE DECLARED BY THE APPLICANT)

S. No		Characteristics	Category (Evaluative/ Non evaluative)	Requirement	Tolerance	Declaration by applicant (Previous/ Present sample)	Remarks
1		2	3	4	5	6	7
1.		ne mover performance:			T		
	a)	Max. Power (absolute) Average max. power observed during 2 hrs. max. power test in natural ambient condition, kW	Evaluative	To be declared by manufacturer	Declared value to be achieved with a tolerance of $\pm 5\%$		
	b)	Max. power observed during test after adjusting the no load engine speed as per recommendation of the manufacturer for field work, kW	Evaluative	To be declared by manufacturer	-do-		
	c)	Power at rated engine speed, kW (under natural ambient condition)	Non- Evaluative	To be declared by manufacturer	-do-		
	d)	Specific fuel consumption corresponding to average maximum power under 2h maximum power test, g/kWh.	Evaluative	-do-	+5% (Max.)		
	e)	Max. smoke density (Bosch no.) at 80 percent load between the speed at max. power and 55 percent of speed at max. power or 1000 rpm whichever is higher.	Evaluative	As per CMV rules.	Nil	-	
	f)	Max. crank shaft torque, (Nm) observed during the test after no load engine speed is adjusted as per manufacturer's recommendation for field work	Evaluative	To be declared by manufacturer	±8%		
	g)	Back up torque, %	Evaluative	7 percent,	Nil	-	

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(Min.)

1		2	3	4	5	6	7
	h)	Max. Operating temperatu	ire, 0C:				
	i)	Engine oil	Evaluative	To be declared by manufacturer	Nil		The observed value under the high ambient condition should not exceed maximum safe value specified by the oil company which will be provided by the applicant
	ii)	Coolant	Evaluative	To be declared by manufacturer	Nil		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.
	i)	Lubrication oil consumption, g/kWh	Evaluative	Not exceeding 1 % of specific fuel consumption at maximum power under high ambient condition	Nil		The value would be based on the test conducted under high ambient condition
2. B	rake p	oerformance at 24km/h or M	aximum Speed	l whichever is less		•	
	a)	Max. Stopping distance at a force equal to or less than 600 N on brake pedal (m) – (cold brake and hot brake)	Evaluative	As per CMV rules.	Nil		
	b)	Max. Force exerted on brake pedal to achieve a deceleration of 2.5 m/sec ²	Evaluative	≤ 600 N	Nil		
	c)	Effectiveness of parking brake at a force of 600 N at foot pedal or 400 N at Hand lever	Evaluative	As per CMV rules.	Nil		Based on the test conducted, Yes/No as the case may be indicated

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3. M	echar	nical vibration:								
	i)	Operator's platform	Non		120 μ	ım m	ax.	Nil		
			evaluat	tive						
	ii)	Steering wheel	Non		150 μ	ım m	ax.	Nil		
			evaluat	ive						
	iii)	Seat with driver seated	Non		120 µ	ım m	ax.	Nil		
			evaluat	ive						
4. Ai	ir clea	ner oil pull over:					ı			
	i)	Max. oil pull over percentage when tested accordance with IS: 812 (Part-2)-2000	in	ative	0.209	% ma	ax.	Nil		
5. No	oise m	leasurement:			1					
2.11	i)	Max. ambient noi emitted by combine at b stander's position, dB (A	y-	ative	as per	· CM	VR	Nil		As per road transport condition
	ii)	Max. noise at operator ear level, dB (A)	r's Evalua	ative	as per	· CM	VR	Nil		In actual field condition
6. H	eader	Lifting Test:			I					
		Satisfactory completion header lifting test	of Evalua	ative	Satis		•	Nil		The observed Hydraulic oil temp should not exceed maximum safe value specified by the oil company which will be provided by the applicant.
7. Di	iscard	limit:	.		II.					
	a)	Thickness of brake lining		ative	-	do-		Nil		
	b)	Thickness of clutch plate	Evalua	ative	-	do-		Nil		
8. Fi		erformance:	T. 1	***	1	1.1	/XX/1 1	3.711	<u> </u>	
	a)	Suitability for crops	Evaluative		type) Pa		y (Wheel (Track	Nil		
	b)	Processing losses (%)	Evaluative	Ba Ric So Ma Of rap So	neat arley ce rghum nize il seed	: N : N : N : N	Max 3% Max 4% Max 4% Max 3% Max 4% Max 4% Max 4% Max 4%	Nil		

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1		2	3		4		5	6	7
	c)	Threshing efficiency	Evaluative	-	:	≥ 98 %	Nil	-	
	,					for wheat			
						and			
						paddy			
	d)	Cleaning efficiency	Evaluative	-	:	≥ 96 %	Nil		
	ĺ					for wheat			
						and			
						paddy			
	e)	Grain breakage in main grain tank	Evaluative	-	:	≤ 2.5 %	Nil		
	f)	Non collectable losses	Evaluative	_	:	≤ 2.5 %	Nil		
	1)	TVOII COIICCIADIC IOSSES	Lvaluative	_	•	for	1111		
						wheat,			
						paddy			
						and gram			
						≤ 4.0 %			
						for			
						soyabean			
9. Fi	eld pe	erformance for Straw M	anagement Sy	vstem (If fi	tte				
,,,,,	a)	Uniformity of straw		-	:	20, Max.	_		
		spread, CV (Percent)				,			
	b)	Weighted mean size of	Evaluative	-	:	20, Max.	-		
		chopped straw, cm				,			
10. S	Safety	requirements:						1	
	a)	Guards against all	Evaluative	Belt and	ch	ain drives,			As per IS
		moving parts/drives		pulleys, h	ıydı	raulic pipes			12239 (Part
		and hot part		(around	•	operators			1)
				workplac		_			·
	b)	Lighting arrangement	Evaluative	Essen	itial	as per	-		
						VR			
	c)	Grain tank cover	Evaluative	Es	ssei	ntial	-		
	d)	Spark arrester in	Evaluative	Es	ssei	ntial	-		
		engine's exhaust in							
		case naturally							
		aspirated engine							
	e)	Stone trap before	Evaluative	Es	sset	ntial	-		
		concave	- 1 · ·						
	<u>f)</u>	Rear view mirror	Evaluative			ntial	-		
	<u>g)</u>	Fire extinguisher	Evaluative	Es	ssei	ntial	-		
	h)	Slip clutch at					-		
		following drives –	D14*			.4:.1			
		i) Cutting platform	Evaluative	l Es	ssei	ntial			
		auger	Non		n4:	.ma1			
		ii) Undarahat	Non		ptic	onal			
		ii) Undershot	evaluative		n4:	.ma1			
		conveyor drive	Non		ptic	onal			
		iii) Grain & tailing	Non						
		elevator	evaluative						

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	i)	Anti slip surfaces at operator platform & ladder & proper gripping for the control levers.	Evaluative	Essential			As per IS 12239 (Part 1)
	j)	Working clearance around the controls	Evaluative	Essential 70mm, min	1		As per IS 12239 (Part 1)
	k)	Labelling of control and gauges and operating controls	Evaluative	Essential	-		As per IS 6283(Part 1)
11.		Material of blades for guards, knife blades and knife back	Non evaluative	Conforming to IS 6024, IS 6025 and IS 10378 respectively	1	-	-
12.		Material of blades for Straw Management System (SMS)	Non- Evaluative	The flail and fixed blades shall be manufactured from steel having the following chemical composition or such other composition as shall be agreed between the supplier and the purchaser: a)Carbon: 0.70 to 0.1 % b)Manganese: 0.6 to 0.97% c)Chrome: 0.1% d)Nickle: 0.1%			
13.		Bushes for flail blades	Non- Evaluative	Mild steel	-		
14.		Hardness of flail blades for Straw Management System (SMS)	Non- Evaluative	Bush section: 20 to 35 HRC Edge section(Hardened zone): 48 to 48 HRC Remainder zone: 20 to 35 HRC	-		
15.		Hardness of serrated blades for Straw Management System (SMS)	Non- Evaluative	Bush section: 20 to 35 HRC Edge section(Hardened zone): 48 to 58 HRC Remainder zone: 20 to 35 HRC	-		
16.		* *		agement System(if Fitted))		
	a)	Guards against all moving parts/drives and hot parts	Evaluative	Essential	-		
	b)	RPM indicator for rotor	Evaluative	Desirable	-		
	c)	Overlapping of flail and fixed serrated blades	Evaluative	Essential	-		The clearance of the flail and fixed serrated blades should be adjustable

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Place:	Signature
Date:	Name of the applicant
	Designation
	Address

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