No. IV-15019/1/2010-Prov(MT) भारत सरकार/Government of India गृह मंत्रालय/Ministry of Home Affairs पुलिस आधुनिकीकरण प्रभाग/PM Division संभरण-I/Prov. I Desk

26, Man Singh Road, Jaisalmer House New Delhi, the 2013

To,

DsG : AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject : Trial Directives for Skid Steer Loader.

Sir,

The Trial Directives in respect of Skid Steer Loader as per the Annexure have been accepted by the Competent Authority in MHA

2. Henceforth, all the CAPFs should trial evaluate the above items strictly as per the laid down Trial Directive and QRs/Technical Specifications issued vide letter No. IV-21011/14/2010-Prov.I dated 10-8-2011.

Yours faithfully,

(Smt. S. B. Nanda) Under Secretary to the Govt. of India Tel : 23381278

Encl : As above.

Copy forwarded to : SO (IT), MHA with the request to host the Trial Directives (being sent through email separately) on the MHA website (under the page of Organizational Set up-Police Modernization Division- Qualitative Requirements) along with QRs for Skid Steer Loader.

(R K Soni) Section Officer (Prov.I)

Copy to : DDG(Procurement), MHA. Copy for information to : PPS to JS (PM)

Appendix-'A'

DRAFT TRIAL DIRECTIVES FOR TRIAL OF SKID STEER LOADER MACHINE

Scope & Aim: -

continuously involved in the tasks of dealing with disaster management apart from their regular role of internal rocks and clear the rocky outcrops/burden as desired and to work on slopes of mountains viz Allahabad, Mokamaghat and Hyderabad. The Skid Steer Loader Machines are required to clear landslides, break Country. For this purpose Regional Response Centers have been earmarked to keep the concerned forces & logistics security, counter insurgency, counter terrorism and anti Naxal operations throughout the depth and breadth of the ready & duly equipped. In this process MHA had authorized one Skid Loader Machine each for three RRCs of CRPF The Paramilitary Forces such as CRPF, BSF, ITBP, CISF, SSB, Assam Rifles, NSG etc. have been

proper understanding of the trial directives, they need necessarily to be read in conjunction with the QRs. 21011/14/2010-Prov-I dated 10/08/2011. Now, for procurement of these Skid Steer Loader Machines, there is a need sample stage. The Trial Directives placed below describes the acceptance criteria and test procedure in details. For a to frame a detailed and scientific guidelines to facilitate various inspections of the machine specially during tender QRs of Skid Steer Loader Machine has already been circulated by MHA vide MHA letter No. IV-

br.m.rd. Gosal (SANJEEYSINGH) (PALLANJHAMMA) (VIRENBER GINGH) bC(PIT), CAPP Team Combr, NSG DC, ESF PURGESH NANDAN KBLI WWW AND

Dav)	LN.K. SADAY) DJE(MY/OBD)24e, CRPF.	(A)) (DURGESH MANDAN) SAUG/MAN (TTSP	CM P (NIL (A)) SANJEGY SAND (PALIAN SANGAR) (VIRENDER SINGH) (PURGESH NANDAN) SANJEGY SAND (PALIAN SANGAR) (VIRENDER SINGH) (PURGESH NANDAN)	Dy. SP. BPRED DC.	PC [
		that within the temperature upto (-)15 degree C.			
and and a second se	3/3.5 track/mute track upto 5 ft width in confined places.	constructing class 3/3.5 track/mule track upto 5 ft width in high altitude mountainous terrain and	in high altitude mountainous terrain and should be able to function upto femp (-)15 degree C.		
	le	conditions for testing its capability of	confined places for constructions of class 3/3.5 track/mule track upto 5 ft width	a) <u>Essential</u>	
	The machine should	The machine should be	to be used	2 Characteristics	2
	attachments for desired purpose.	tools /	b) Limited Dozing Work (Back hoe loader).c) Snow Clearance		-
	be found to be actually provided with suitable	physically checked as per the recommended specification using	following tasks with the use of suitable attachments:- a) Rock Breaking		
	machine		It should be employable for the	General:	هسو
Complied/ Not complied	Result expected/ desired	Procedure suggested for	Parameters	SLNo. Specification	S
		1)	Humid)		
oggy an	ot and Humid/ Rainy/ Foggy and	(Clear/Cloudy/Partially Cloudy/ Hot	(Clear/	GR of Trial Area	G
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		le	Altitude	Time of Trial	Tit
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DRAFT TRIAL DIRECTIVES FOR TRIAL OF SKID STEER LOADER MACHINE.

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Specification Parameters '' '' '' <t< th=""><th>Parameters Procedure suggested f trial NOTE :- If the machinal could not be taken to himal attrade mountainous terms for some justifiable reasons the board should manimous decide on taking it to some the board should unanimous decide on taking it to some present to should be an exception on the such as ease, ascertaining its suitability the given temp. range up to (-)15 degree centigate to obtained from OEM. ii) Self propelled machine with capability to travel with a speed of 8 to 9 kmph X-country and high on site mobility. The machine to be put test drive to check or country as well as checking its ons in mobility. iii) Maintenance-free positive gear meshed transmission. 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The functioning of gear physically checked while putting the machine on drive.</th><th>Parameters Procedure suggested for trial NOTE :- If the machine could not be taken to high altitude mountainous terrain for some justifiable reasons, the board should unanimously decide on taking it to some other similar low altitude terrain condition. But this should be an exception only. In such a case, for ascertaining its suitability at the given temp, range i.e. upto (-)15 degree centigrade required certificate to be put on the given temp, range i.e. upto (-)15 degree centigrade required certificate to be put on the given temp, range i.e. upto (-)15 degree centigrade required certificate to be obtained from OEM. ii) Self propelled machine with tapability to travel with a speed test drive to check its to of 8 to 9 kmph X-country and high on site mobility. The machine to be put on recommended speed i.e. 8 to 9 kmph on cross r ountry as well as for checking its onsite mobility. The functioning of gear physically checked while putting the machine on drive.</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th> </th><th>SLINO.</th></t<>	Parameters Procedure suggested f trial NOTE :- If the machinal could not be taken to himal attrade mountainous terms for some justifiable reasons the board should manimous decide on taking it to some the board should unanimous decide on taking it to some present to should be an exception on the such as ease, ascertaining its suitability the given temp. range up to (-)15 degree centigate to obtained from OEM. ii) Self propelled machine with capability to travel with a speed of 8 to 9 kmph X-country and high on site mobility. The machine to be put test drive to check or country as well as checking its ons in mobility. iii) Maintenance-free positive gear meshed transmission. 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	edure suggested f not be taken to hi not be taken to hi e mountainous terra one justifiable reason and should unanimous on taking it to sor similar low altim condition. But th l be an exception on such a exception on such a exception on such a exception on the an exception on such a exception on the an exception on the machine to be put drive to check numended speed j of the machine to ically checked wh ng the machine s.	E :- If the machine not be taken to high e mountainous terrain me justifiable reasons, and should unanimously on taking it to some similar low altitude condition. But this l be an exception only. such a case, for aining its suitability at iven temp. range i.e. (-)15 degree centigrade ed certificate to be ned from OEM. machine to be put on drive to check its nmended speed i.e. 9 kmph on cross try as well as for king its onsite lity. functioning of gear of the machine to be ically checked while ng the machine on	edure suggested for not be taken to high e mountainous terrain mme justifiable reasons, ard should unanimously b on taking it to some similar low altitude t condition. But this 1 be an exception only. such a case, for aining its suitability at jiven temp. range i.e. (-)15 degree centigrade ed certificate to be hed from OEM.Result desired to be put on the machine to be put on the found meetin mmended speed i.e. functioning of gear functioning of gear functioning of gear the machine to be ically checked while e.The machine s mobility & speed comply ically checked while of the machine on specifications a of the self certific and the self certific and the self certific and the self certific) D	hydraulic transmission.	Maintenance-free ur meshed transmi		high on site mobility.	of 8 to 9 kmph X-country and	capability to travel with a speed	2100					1		Farameters

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Roden Dolla				Specification
Par & Sal	vi) Should be possible to operate the machine in High Altitude Areas upto 18000 ft above MSL and in slushy/water logged areas for track construction tasks.	 v) Weight with operating weight (weight with standard dirt bucket, full fuel, standard tyres and an 80 kg operator) not exceeding 3600 kg. 	iv) It should have an excavator or a loader or excavator cum loader attachment, with single/dual-cylinder loader arm, fixed to the machine at any one time with capability to fit other attachments.	Parameters
Cut warman	The machine to be physically checked while operating it in high altitude areas as specified in QRs and in slushy / water logged areas for track construction tasks. Note :- If the machine could not be taken to high altitude mountainous terrain for some	Weight of the machine be taken at any wei bridge. The machi should be loaded with operating weight (weig with standard dirt buck full fuel, standard ty and an 80 kg operator).	The attachments are to be physically checked. The provision to fix other attachments at the same time should also be checked physically.	Procedure suggested for trial
CN.K. WORKS	be capable to be capable to perform on high altitude areas upto 18000 ft above MSL r and in slushy/water logged areas. While operating so the e machine should be e able to perform the	The be all and f and i not e	The desured attachments should be practically found to be attached on the machine and the machine should be capable to perform alongwith its recommended attachments.	red ex
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-m, Geren School	Excavation performance	
CR. M. M. GORDER VSMULLI (MILLAN HIPPANE) (VIRENDER, SIMUH) (DURGESH MAMDAN) Dyr. SP, BPRED DC (MILLAN HIPPANE) NIST DC, B.SP SNULL (MISP/MM, ITB)	Excavator should be capable of The machine to be put The machine snown excavating speedily in soft soil on work under be found capable and to a limited capability in recommended conditions enough to excavate	operator.
ER, STANLY (DURGESH NAMDA	The machine to be put on work under recommended conditions	by seating inside the well protected w cabin. provide weather protection for the operator
AN DEC (MY ORD)	under be found capable ditions enough to excavate	well protected w provide weather protection for the operator.

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m-m, Gased (Sano	Excavation performance		b) <u>Desirable</u>		3	Specification
CAR, Mr. M. GONDEL SANDEL SANDEL WILL AN AND LARGEN AND CHIREAN	Excavator should be capable of excavating speedily in soft soil and to a limited capability in	ii) Should have a caom to provide weather protection to operator.	be able to cle physisting of boulde 0 cm diameter (up ight).	vii) Changing of attachments should be user friendly and should not exceed 10 minutes in field conditions.		Parameters
WILL CHARGESH MANDANY (VIREADER STANA) CHARGESH MANDANY (VIREADER STANA) CHARGESH MANDANY	on work u recommended condi	to be physically chec by seating inside cabin.	The machine work as per putting it on work as per recommended specification.	all the to to the ecked ing the or he anothe he anothe one by the lor of the ing the or	should unanimously decide on taking it to some other similar low altitude terrain condition. But this should be an exception only.	Procedure suggested for trial
	be found enough to	good enough a well protected provide weat protection for operator. The machine sho	CP	The changing of attachments should be found to be user friendly and completed within the recommended time recommended time for each attachment.	constructions.	Result expected/ desired task of track
CNK2XADAV)	vate	ind to the uld	be it, g ög i			Complied/ Not complied

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ParametersProcedure suggested for trialRe trialrocky areas. However, it should be able to break rocks and clear the rocky outcrops/burden as desired. It should be able to work on slopes of mountains.and areas to check its capabilities as specified. untains.Should be capable of carrying out limited dozing of soft physically checked by soil/loose rocks/loose earth.The machine to be physically checked by letting it to carry out soft soil/loose rocks/loose earth.The soil/loose rocks/loose earth.The performance of the skid steer should be:- a) Dump Ht – Min 2000 mm Kg \pm 10 Kg.To be physically checked by operating it to the height. Height to be neasured with measuring tape.To be physically checked by operating & loading it with desired weight of k g \pm 10 Kg.b) Rated Op Capacity – Min 600 Kg.To be physically checked with desired weight of a weighed.To be physically checked by operating & loading it with desired weight of & weighed.		Performance of the equipment	<u>Dozing</u> performance		Specification
Procedure suggested for trialRe de trialand areas to capabilities as specified.deand areas to capabilities as specified.deThe physically 	b) Rated Op Capacity - Min 600 Kg ± 10 Kg. c) Tipping Load - 1100 to 1300 Kg.	The performance of the steer should be:- a) Dump Ht – Min 2000 mm	ld be capable of carr limited dozing of loose rocks/loose earth.		
			machine to sically checked ng it to carry out / loose rocks/ lc h as nmmended capacit	8	edure suggested for
Not complete	The machine should be able to withstand f at this load and operate smoothly. The machine should not be subjected to tipping when loaded between 1100 to 1300 Kg.		The machine should be found capable to carry out dozing of soft soil, loose rocks and loose earth easily.	easily and speeduy under recommended conditions and areas.	1 expected/

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Specification Parameters Procedure suggested for trial Result trial expected/ desired Attachments It should have capability of fitting and working with fitting and working with following attachments:- following attachments:- following attachments:- attachments separately as below. It capacity of attachments separately attachments separately as below. It is recommended attachments separately as below. a) Excavator buckets of 600 mm. The capacity of capacities 300 mm, 450 mm, 600 mm. The capacity of excavator buckets to be separately as below. It is recommended attachments separately as below. It is recommended attachments separately as below. b) Ripper Tooth with 5 teeth. The Ripper Tooth to be 550 mm - 700 mm The size of the Ditch physically checked for its specified teeth. The Ditch cleaning bucket siould be of physically checked for its should be of measured by the since 550 mm - 700 measuring type. d) Rock Breaker, Hydraulic vibrating type The kock breaker to be mm. The Rock breaker to be mm. The Rock Breaker to be mm. The Rock Breaker to bucket should be of mm. e) Stump grinder/tree cutter, operating height 24 inches, wheel diameter of The Stump grinder/ operating height and The wheel diameter of The Stump grinder/ operating height and	SI.No.	6											da <u>n - 1 11 - 184</u>							T							<u>\</u>	
eters Procedure suggested for trial Result end trial expect desired and working and working ing attachments:- The capability of the capability of machine to be physically checked duly fitted with recommended attachments separately as below. The capability of the capacity of the capacity of the capacity of machine to be physically attachments separately as below. The respect respect the capacity of the separately and measured physically and should be separately during actual mm, 450 mm, the capacities of the machine should be measured to be the machine sho pointed together. per Tooth with 5 teeth. The Ripper Tooth to be physically checked for its the machine sho specified teeth. The Ripper tooth the be measured by the Ditch The Ditch the machine should be the machine should be cleaning bucket to be measuring tape. The Ditch clean mm. oock Breaker, Hydraulic ting type The Rock breaker to the be the should be function machine and put on work to the should be function the wheel diameter of the Stump grind the cutter, the stump grind the cutter should the cutter should the cutter should the cutter should the cutter should the cutter should the function the stump grind the	Specification	Attachments					******								[pd870076					-	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						Interior Antonia a	Dod my f n a Aut
Procedure suggested for trialResult desiredcapability desiredThe capacity checked duly fitted with its attachments separately as below.The capacity of ceachThe capacity as should separately and should be measured physically actual excavation.The capacities of mm, 450 mm, mm, 450 mm, 450 mm, mm.The separately during actual separately during actual excavation.The capacities of mm, 450 mm, mm, 450 mm, 450 mm, mm, mm, 450 mm, 450 mm, 450 mm, mm.The specified teeth.The Ripper tooth be he having 5 te joined together.The measuring bucket to attached with i.e. by breaking the rock.The be function measured with the physically the physicallyThe wheel diameter of measured with to be the should be should be the should be function fice.The wheel diameter of measured with the measured with someThe should be function for operating the of operating the of operating he of operating he of 24 inches	Parameters	uld have capability	and working attachments:-	(Excavator buckets	300 mm, 450					b) Ripper Tooth with 5 teeth.				c) Ditch cleaning bucket Size -	550 mm - 700 mm			Rock Breaker,				Stump grinder/tree	erating height 24	meter 20 inches		ç
Result expect desired respect The respect Excavator buck should be capacities of mm, 450 mm, 450 mm, 450 mm, 450 mm, fill poined together. fill The Ditch clean bucket should be Size 550 mm – mm. mm. - The Rock Breat should be function i.e. hydra - vibrating type. - - The Stump grin tree cutter should be of 24 inches -	Procedure suggested for trial	The capability of the	machine to be physically checked duly fitted with		attachments separately as	of	Excavator buckets to be	measured physically and	separately during actual			The Ripper Tooth to be	physically checked for its	specified teeth.		size of the	bucket to	đ by	measuring tape.	The Rock breaker to be	attached with the	machine and put on work	i.e. by breaking the rock.				easured wi	
	Junction					The respective			of	mm, 450 mm, 600	mm.	The Ripper tooth of			joined together.	The Ditch cleaning	bucket should be of			The	should be functional		vibrating typ	The Stump	tree cutter s	of	of	•

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	 <u>Iracks</u> Kubber, tracks as attachments should preferably be easily mountable over wheels 						 horizontal reach 3.36 m.	m, M	h) Back hoe loader, Cutting	z			with rotating protrusion	g) Snow blower-Chain driving			300 mm	f) Earth Auger, Auger bit size	*	-		rarameters
	i he mounting & de- mounting of rubber tracks over the wheels to	measured with measuring	and the reach will be	actually mutting it for	and minimum norizonian	cutting depth of 2.5 m	with the machine and	be physically attached	The Back hoe loader to	purpose of snow blowing.		fitted with the machine	physically checked duly	The Snow blower to be	tape.	measured with measuring mm.	Earth Auger to be	The size of bit of the	tree cutting.	actually stump grinding /	measuring tape/ruler by	trial
	to mount and de-				э.эо ш.				The Back hoe loader		specification.	recommended OEM	should be as per	The Snow blower	-	mm.	be found of size 300	The Auger bit should	-	inches.	wheel diameter of 20	desired expected/
			t- 	 																ng ng pagtar 1960		Not complied

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Car. M. M. Gass	o	8	7	- -	SI.No.
SIG	Transportability	Night aids	Mobility		Specification
A AN 2 CONTRACT OF A AND	 Should be capable of being transported over a long distance:- a) By road in 5/7.5 ton class vehicle. b) By Air in IL-76 aircraft. c) On board/under slung in MI-26 helicopter in full or semi knocked down state. If 	Luminous markers should be provided on the machine and attachment to enable the operator to gauge the depth of the trench and location of arm and bucket at night.	The machine should be self propelled with high on-site mobility and cross country performance.	in field conditions.	Parameters
R STALLE (TOWAGESH NUMUDAN)	The transportation capability of machine and its attachments to be physically checked for the sub para- a. for sub para- b and c self certification to this effect from OEM to be obtained.	The machine to be put on work alongwith its attachments during night so as to check the desired functioning of its markers.	The machine to be put on work in order to check its high on-site as well as cross country mobility.	be physically checked on site/ field by the trained operator.	Procedure suggested for trial
			The machine should be able to achieve high on site and cross country performance.	mount over wheels in recommended conditions and should be as per OEM specification.	Result expected/ desired
					Complied/ Not complied

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Specification Parameters Procedure suggested for trial transported in semi K.nocked down state, it should be possible to reassemble the machine in field with ease. Note The machine to be loaded in truck physically. to reassemble the machine in field with ease. Note The machine to be loaded in truck physically. The skid steer shall be simple to operate and simple to store and maintenance instructions shall be provided with the equipment. The operation, storage physically. A user handbook giving maintenance instructions shall be provided with the equipment. The user handbook to be complete operation machine to be checked machine and fast running spares. The Tool kit and fast running spares of the checked physically.	Parameters Procedure suggested for trial Procedure suggested for trial Procedure suggested for trial transported in semi Knocked down state, it should be possible field with ease. Note :- The machine to be loaded in truck physically. Requisition for IL-76 and MI- 26 cannot be placed only for trial purpose. Hence, the area and dimension of inner space of MI-26 be obtained from GOI/MOD so as to check its transportability. Procedure suggested for down state, it should be possible Requisition for IL-76 and MI- 26 cannot be placed only for trial purpose. Hence, the area and dimension of inner space of MI-26 be obtained from GOI/MOD so as to check its transportability. The skid steer shall be simple to complete operation and maintenance instructions shall be provided with the equipment. The skid steer also be provided with tool kit and fast running spares. The user handbook to be nachine and inte and maintenance of the machine and its attachments to be checked physically. The tool kit and fast
IO In semi Knocked Note :- The machine to it should be possible ple the machine in see. Note :- The machine to it should be possible ple the machine in 26 cannot be placed only trial purpose. Hence, the and dimension of inner sport of MI-26 be obtained if GOI/MOD so as to check transportability. See shall be simple to store and operation and pertused the equipment. handbook giving The user handbook to physically. handbook giving and pertused thoroughly. teer also be provided kit and fast running attachments to checked physically.	In semi Knocked Note :- The machine to be loaded in truck physically. Requisition for IL-76 and MI-26 cannot be placed only for trial purpose. Hence, the area and dimension of inner space of MI-26 be obtained from GOI/MO26 be obtained from GOI/MO26 be obtained from growtability. The operation, storage and machine to be checked in truck physically. handbook giving transportability. The operation, storage physically. The instructions shall i with the equipment. The Tool kit and fast running attachments to be checked physically. The Tool kit and fast to be checked physically.
Procedure suggested trial Note :- The machine to loaded in truck physica Requisition for IL-76 and 26 cannot be placed only 26 cannot be placed only 30 machine to be chec 31 machine to be chec 32 machine and 33 attachments to 34 checked physically.	Procedure suggested for trial Repuisition for IL-76 and MI-26 cannot be placed only for trial purpose. Hence, the area and dimension of inner space of MI-26 be obtained from GOUMOD so as to check its transportability. The operation, storage and maintenance of the machine to be checked physically. The user handbook to be perused thoroughly. The Tool kit and fast attachments to be checked physically. Its perused thoroughly.
	Resultexpected/desireddesireddesiredThe machine shouldbe simple and easy tooperate, store andmaintain.The user handbookshould cover all therelevant details &pertaining to themachine and itoperation/maintenance dulyprinted in Hindi anEnglish languages.The tool kit shoulbe complete as per itrecommended tooland fast runninspares.

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12		The firm should be able to The firm to be	le to
		number) for trial and evaluation one machine for its trial	ition
	-	on "No cost No commitment and evaluation on NCNC	nent
	·	basis" at Sector Head Quarters basis	ters
		(SHQ) Ladakh, ITBP destination	BF
		immediately if required by a	S S
		detailed by DG ITDD	þ

TECHNICAL SPECIFICATION

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Four cylinders, Liquid Power-min 60 hp de altitude 4500 mtr.	Power-min 60 hp deliverable at engine altitude 4500 mtr. or above, be che	Power-min 60 hp deliverable at engine assembly altitude 4500 mtr. or above, be checked a	Power-min 60 hp deliverable at engine assembly will altitude 4500 mtr. or above, be checked as per	fication of sembly will ed as per
⁷ our cylinders, Liquic ² ower-min 60 hp de ultitude 4500 mtr.	ower-min 60 hp deliverable at engine ltitude 4500 mtr. or above, be che	our cyinders, Liquid cooled/ 4 ne specificant ower-min 60 hp deliverable at engine assembly ultitude 4500 mtr. or above, be checked a	our cylinders, Liquid cooled/ 4 ne specification of ower-min 60 hp deliverable at engine assembly will ultitude 4500 mtr. or above, be checked as per	Your cylinders, Liquid cooled/ The specification of The mac Power-min 60 hp deliverable at engine assembly will found ultitude 4500 mtr. or above, be checked as per cylinders
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engine assembly will found having be checked as per cylinders, lic certificates supplied cooled/ power- mir by OEM. hp deliverable altitude of 4500 m	y will found having s per cylinders, lic pplied cooled/ power- mir hp deliverable altitude of 4500 mi	found having income found having income cylinders, line cooled/ power- mir hp deliverable altitude of 4500 mt above and canacity	having having having having having having haven	
A ne specification of Line machine should be engine assembly will found having four be checked as per cylinders, liquid certificates supplied cooled/ power- min 60 by OEM. hp deliverable at altitude of 4500 mtr or	y will found having four s per cylinders, liquid cooled/ power- min 60 hp deliverable at altitude of 4500 mtr or	found having four found having four cylinders, liquid cooled/ power- min 60 hp deliverable at altitude of 4500 mtr or above and canacity of	found having four cylinders, liquid cooled/ power- min 60 hp deliverable at altitude of 4500 mtr or above and capacity of	n 60 v of

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SI.No. | Parameters ري) Þ Ó Un (Dr. 1917). GOSAL (BANJEEV SIMUH) (PARLAN SHARME) (VURENDER SIMUH) DY, SP, BARLD DC/MTJ, CROF TEAM COMOR MG BC, BSF Tyre Axle Power train Brakes suspension and Rigidly Z Specifications chassis 4 Nos, Pneumatic Tubeless 10released multiple fade gears/hydraulic systems slip free drive through brakes forming integral part of Hydraulically 16.5 Standard duty the drive motor. Through positive gear pep fixed, integrated into activated forged boxes, free and To checked as The tyres on drive and tested for its braking efficiency The machine to be put certification supplied by OEM. machine certificates supplied by Procedure 010 checked. OEM. Power train will be standard and certificate | standard duty tyres. per their make and physically checked as the OEMs. for trial checked specification certification of OEMs. site/road. (Juddest Multer) be JUSP/MM (ITBD) as suggested | Result physically ರ per of б Brake from the the bet be be be found to be having tubeless ð manufactured 4 Nos. specifications applied and the brake immediately The axle & suspension The machine should when the brakes are found capable enough into rigidly and integrated of the machine should specification. recommended found The machine should be desired be certification The machine should be be found to be fixed properly. ŝ be the per The (my and) the coop đ pneumatic expected/ | Complied/ as and stopped as per chassis 10-16.5 へとえ should OEM from the be Not complied 0000

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Con may		ę	~		SLNo.
Steer	Back hoe	Steel tracks	Cooling system	Electric system	Parameters
	Cutting depth 2.5 m, Horizontal reach-minimum 3.36 m. Swing capacity 90 degrees either side, Cutting force 16.3 KN	Manganese enriched steel with solid blocks.	Liquid cooled one pump one loop system. Coolant is Ethylene Glycol/water mixed (1.1)	12/24 V 150 AH maintenance free automobile battery.	Specifications
(MIRENDER SJINGE) (DURGESH NEWDENN) (MIRENDER SJINGE) (DURGESH NEWDENN) (MIRENDER SJINGE) (DURGESH NEWDENN) 1729	To be physically checked as per recommended specification by	To be checked as per the certification of OEMs.	The cooling system of the machine to be checked mechanically and also as per the certification of OEM/ Manufacturer.	The machine to be turned on so as to test its battery capacity. Besides necessary certificate regarding its free maintenance and guarantee/warrantee should also be obtained from the manufacturer/supplier. There should be no leakage in the batteries.	Procedure suggested for trial
		The steel tracks of the machine should be of Manganese enriched steel with solid blocks.	The machine should be having effective cooling system with coolant – Ethylene Glycol/ Water mixed (1.1)	OEMs. The battery of the machine should be of 12/24 V 150 AH, maintenance free and should be capable to withstand the electrical load of the machine.	
DRI (MT) SRIJAHE, CRIF.					Complied/ Not complied

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Sl.No. | Parameters CARIMINI GOERD (CANDERVENNE) (PLALAN SHARAWY (MRENDER SMAN) (PURGESH NANDAN) DY SP., BPRGD DECMINICER FEAR COMPACTING DC, BSF SNUP/MM, FTBP <u>د م</u>ر (بی) 12 فىمىسىز قىرمىسىز weight Gross Snow blower Rock breaker vehicle Specifications breaker protrusions Hydraulic, Not exceeding 3600 kg Chain driven vibrating type rock with rotating braking The machine ýq the scaling by bridge for checking its weighed at any weigh covered with snow. alongwith its chain on physically put on drive | found to blow the snow The machine to be alongwith its specific | per desired standard physically put on rock in this regard. machine should certify manufacturer of team, the supplier/ measured by the trial difficult instruments. measurement putting it on work and for trial Procedure GVW. The machine to be attachment. Cutting Force is very counting surface suggested ಕ tools As the to be gursn area work and the be and function properly, Result braking the rocks should be able to clear out of its way and The machine should be found The machine should be Cutting Force – as per degrees Swing capacity of 90 minimum Horizontal Govt. Laboratory. through the Accredited be able to withstand the self certification or desired The machine should the snowy tracks. when loaded rated GVW capable either side. Dir, (My or Boy 240, CPOP 3.36 reach expected/ | Complied/ q 、アデズ m, 01 nts of as Not complied XADAY

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SI.No. Parameters 4 Fitments (Durgesh Nandan), Insp / MM, ITBP, New Delhi. (Sanjeev Singh), Dy. Colmd (Dr. M. M. Gosal), Dy. SPBPR&D, New Delhi Specifications provision/aids and lift hooks. g Each Skid Steer Loader should hosel fitted with cold starting PER CRPF, New Delh Dr. N C Asthana, IPS), IG (PROV), CCO Complex, Lodin Road 팩 Radi/New Data Dte. Genl. Maria -Director General, CRPF के का परितर तोदी सेंद् water (Rayand, CRPF ARGE REPERTING CRPF, New Dethi 5 provision/ aids and lift The cold starting climatic conditions. hooks should for trial Procedure suggested Result checked during cold physically checked. Cold starting should be Sal (Pallavi Sharma), Team Comdr, NSG, Manesar, (Virender Singh), Dy. Comdt, BSF, New Delhi. (NK Yadav), DIG (MT, CRPF, New Delhi. ... 17 Mary Muerrar be the provision of cold starting and lift hooks. Guragaon. found to be fitted with The machine should be desired expected/ Complied/ Not complied

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