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Inspection Standard For Acceptance And Condemnation Limits

EX 200 – Hydraulic Excavator

DS Cat/part No.

SUPPLY ORDER NO: AT No.51021 – Proc/55x Hyd Exc 20 Ton /GS 2010 -11 /DGBR / E3ES Dt 07 Mar 2011

SUPPLIED BY:

TELCON

TELCO CONSTRUCTION EQUIPMENT CO. LTD

KIADB BLOCK NO.2, BELLUR INDUSTRIAL ESTATE, MUMMIGATTI, DHARWAD – 580 007

PUBLISHED BY:

BHARAT SARKAR RAKSHA MANTRALAYA

ENGINEERY UPASKARON KA GUNVATHA ASHVASAN NIYANTRANALAYA

**CONTROLLERRATE OF QUALITY ASSURANCE OF ENGINEERING EQUIPMENT
AUNDH CAMP - PUNE – 411 027**

Mar 2011

SERVICE HOTLINE TOLL FREE NO-1800 3456 500

RESTRICTED

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Inspection Standard For Acceptance For EX200

Parameters	Specification and limits	Observations/Remarks
SO No. And Date	SUPPLY ORDER NO: AT No.51021 – Proc/55x Hyd Exc 20 Ton /GS 2010 -11 /DGBR / E3ES Dt 07 Mar 2011	Yes
Quantitiy Of Order	55 No.s Equipments , 55 No.s Rock breakers	55 No.s Equipments , 55 No.s Rock breakers
Supplied By	Telcon Ltd .. Dharwad	Telcon Ltd .. Dharwad
Quantity Tendered	55 No.s Equipments , 55 No.s Rock breakers	Yes
Governing Specification	AS per SO mentioned Above	As per SO Mentioned Above
Inspected By	SQAE (EE) Wing, Bangalore	SQAE (EE) Wing, Bangalore
Place Of Inspection	Company Premises At Dharwad (Karnataka)	Company Premises At Dharwad (Karnataka)
Consignee	As Per Order	As per Order

Inspection Standard For Acceptance for EX200

Ser No	Parameter/Specification	Observations
1	Machine Number	Provided in PDI Report for Each m/c by QA
2	Chassis Number	Provided in PDI Report for Each m/c by QA
3	Engine Model Make	CUMMINS 6BT 5.9
4	Main Pump	K3V112 DT - Kawasaki make
5	Travel Motor LHS make & SI no.	Provided in PDI Report for Each m/c by QA
6	Travel Motor RHS make and SI no.	Provided in PDI Report for Each m/c by QA
7	Rock breaker SI no.	Provided in PDI Report for Each m/c by QA
8	Battery shall be kept dry while packing	02 Nos. wet batteries kept in tool box
9	<u>Pre inspection</u>	
10	Proof of strength/HP/capacity calculations, wherever required, shall be furnished by the manufacturer in justification of adequacy	Documents Provided by QA
11	0.9 cum general purpose bucket Calculation Details	Documents Provided by QA
12	Cummins 6BT 5.9C model, 6 cylinder, 4 stroke, water cooled turbo charged diesel engine developing 131 HP @ 2000rpm. Engine Test Certificate from OEM	Test certificate attached for CUMMINS 6BT 5.9 Provided By QA
13	24V electric start system, Make & type	Lucas TVS Starter Solenoid operated
14	Hand throttle	Provided
15	Cold starting device	Provided
16	2x 12 V battery Exide with ISI certification	4B1-111850 4B1-109739
17	Belt- driven 24V alternator	Provided
18	engine stop though cable	Provided
19	Operator's Cabin to serve the indented purpose of operator's safety and comfort.	Provided
20	Rear view mirrors, interior lights ,wiper, two head lights, first aid box,fan and fire extinguisher.	Provided
21	Pilot controls for boom, arm , bucket and swing	Provided
22	Individual pilot operated foot pedal or hand levers for all Travel functions	Provided
23	Oil cooler for cooling hydraulic oil	Provided
24	Swing Brake system- inboard hydraulically released spring set brakes	Provided
25	10 micron filter element	Provided
26	Hour meter, water temp gauge, engine oil low	All provided

	pressure and warning indicator, fuel gauge, engine starting by ignition key, horn switch and switches for various lights. Warning system for low engine oil pressure and high temperature	
27	Instruments illumination for night time operation	OK
28	Battery no charge indicator	Provided
29	Painted in Golden Yellow colour shade No. ISC-356 conforming to IS:2932. Buff primer brushing/spraying to fulfill the specification No. JSS-3-47-13 or IS:2074.	OK
30	Tools & A tool box as per appendix-'B'	Provided
31	The literatures as per appendix-'C'	Provided
32	Instruction plate	Provided
33	Anodized aluminum plate/blackened brass plate containing nomenclature and model Year of manufacturing Name and address of the firm Serial no of eqpt	All provided
34	Rock breaker DMB210 bearing sl number	1974
35	Weight 1800 kgs	Document Provided By QA
36	Operating pressure 130-170 bar	Document Provided By QA
37	Strike rate 400-600 blows/min	Document Provided By QA
38	Blow energy 3030 joules or more	Document Provided By QA
39	Dimension & performance parameters as per Para 3 I (iii) of AT	
aa	Net power to weight ratio 6.25 HP/ton	
ab	Operating Weight range 20 ton approx	OK
ac	Digging reach 9250mm	OK
ad	Digging reach on ground 9060mm	OK
ae	Digging depth 5910mm	OK
af	Cutting height 8990mm	OK
ag	Dump height 6230mm	OK
ah	Swing radius 3720mm	OK
aj	Gradeability 35 deg (70%)	Document Provided By QA
ak	Minimum vertical wall 5050mm	OK
al	Travel speed 0-4.2 km/hr	OK
am	Swing speed of 13.7 rpm min	OK
an	ground clearance 435 mm	OK
ao	bucket digging force 11000 kgf	Document Provided By QA
ap	max traction force 15300 kgf	Document Provided By QA
aq	Max ground pressure 0.52kg/sq cm	OK
ar	Max height of the machine 3020mm	OK
as	width over tracks 2990mm	OK

Condemnation Limit Of Major Aggregates Of EX200

SI No.	Major Aggregate	Condemnation Limit	
		Hours	Years
1	6 BT Cummins Engine	12000 -15000	5-6
2	Hydraulic Pump (Axial Piston Type)	15000-18000	5-6
3	Travel Motor	15000-18000	5-6
4	Travel Device	10000-12000	4-5
5	Swing Motor	15000-18000	5-6
6	Swing Device	10000-12000	4-5
7	Main Control Valve	10000-12000	5-6
8	Pilot Control Valve (LH & RH)	8000-10000	3-4
9	Pilot Control Valve (Travel)	8000-10000	3-4
10	Shockless valve	8000-10000	3-4
11	Centre Joint	7000-8000	3-4
12	Bucket Cylinder	8000-10000	4-5
13	Arm Cylinder	8000-10000	4-5
14	Boom Cylinder	8000-10000	4-5