

SPECIFICATIONS

ENGINE

	Tata Hitachi
Model	V3800-TIE4B
Type	Turbo-charged, inter-cooled direct injection
Gross Pawer	74.3 HP (55.4 kW) @ 2,200 RPM
Max. Torque	
Battery (with cut-off switch)	12 V, 130 Ah
	4 nos
Bore	100 mm
Stroke	120 mm
Displacement	3,769 cc
Alternator	

HYDRAULIC SYSTEM

Excellent Hydraulic System (EHS) with Tandem	gear pump for lower fuel consumption
System Pressure	
Max. Pump Flow	113 lpm @ 1,950 RPM
Control Valve: Sectional valves that are individ-	ually replaceable

Rear heavy-duty Carraro axle

High brake torque

TRANSMISSION

- Equipped with Carraro-make synchro-shuttle transmission.
 Solenoid-type mechanism allows smooth, easy forward and reverse movements. Transmission allows for four forward and two reverse speed.

AXLE

I	F	ront	Ax	le

- Heavy-duty, non-powered axle
 Floats up to +/-8 degrees to handle
- 4 WD Front Axle, King Pin Angle=7°, Camber Angle=1.5, Ratio Total-13,714:1

SPEEDS

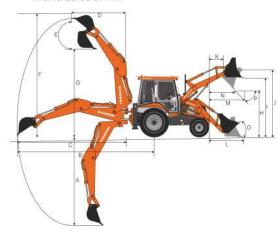
SPEEDS	Speeds @ 1950 rpm with standard tyres
Forward	Reverse
1st5 kmph	1st6 kmph
2nd8 kmph	2nd9 kmph
3rd	3rd

BACKHOE PERFORMANCE

Backhoe Bucket digging force 5,685 kgf	Backhoe Arm Length1.96 m
Backhoe Arm digging force 3,220 kgf	Backhoe Boom Length 2.46 m
Slider Frame Travel1,050 mm	Bucket width

Dim. Notations	Dimension	Description	
А	4,775	Max. digging depth	
В	6,880	Max. reach from rear axle centre	
С	5,440	Max. reach from slew centre	
D	2,001	Max, reach during loading from slew centre	
E	180°	Bucket rotation angle	
F	6.050	Max. cutting height in backhoe (Stabilizer fully extended position)	
G	4,200	Max, loading height in backhoe (Stabilzer fully extended position)	
Н	2,745	Max. Dump height	
1	3,305	Load over height	
Ú	3.550	Pin height	
K	360	Pin forward reach	

All dimensions are in mm



BRAKES

Service Brake: Oil-immersed wet disc, hydraulic-actuated with independent pedals for

better control in narrow spaces Parking Brake: Hand-operated disc brake on the rear axle

STEERING

Type	Hydraulic actuation with priority for smooth contr
Turning Radius	inner wheel brakir
Outside Loader Bucket	
Outside Wheels	8.6

TYRES

Front (Std.)	9x16, 16 PR
Front Wider (4 WD)	
Rear (Std.)	16.9 x 28, 12 PR
Rear (HD)	

REFILL CAPACITY

Fuel Tank	128 L
Engine Oil	12.21
Engine Coolant	
Transmission Oil	16 L
Rear Axle Oil	17.1 L
Hydraulic Oil Refill	86 L
Front Axle-Live	

LOADER PERFORMANCE

Below ground dig depth	110 mm
Loader bucket break-out force	6,580 kgf
Loader arm break-out force	5,488 kgf
Payload	. 1,920 kg
Loader Bucket capacity	1,1 m ³

Dim. Notations	Dimension	Description	
L	1,620	Reach at ground level	
М	1,332	Max. reach at full height	
N	840	Reach in bucket dump position	
Bucket Angles		<u> </u>	
0	45°	Bucket roll-in angle	
Р	45°	Bucket rotation angle	

All dimensions are in mm

BACKHOE BUCKET OPTIONS

Туре	Bucket size	Bucket width	Bucket weight	No. of tooth point
Standard bucket	0,26 m ³	752mm	220 kg	5
Heavy duty bucket	0.22 m³	695mm	195 kg	5
Trench bucket	0.09 m ³	1ft	122 kg	3
Trench bucket	0,12 m ³	1.5 ft	135 kg	3
Ditch cleaning bucket	0.35 m ³	945mm	220 kg	NA

LOADER BUCKET OPTIONS

Туре	Bucket size	Bucket width	Bucket weight	No. of tooth point
Loader bucket	1.1 m ³	2352 mm	560 kg	8
6 in 1 Loader bucket	1.0 m ³	2350mm	680 kg	8

OVERALL DIMENSIONS

Dim. Notations	Dimension	Description	
1	6,040	Transport length	
2	2,130	Wheel base	
3	1,370	Slew centre to rear axle centre	
4	320	Minimum ground clearance	
5	485	Slew ground clearance	
6	2,940	Height of cabin	
7	3,530	Machine Transport Height	
8	1,900	Front wheel tread width	
9	1,700	Rear wheel tread width	
10	2,354	Loader bucket width	
11	5,520	Max. side reach to slew centre	
12	1,035	Total side-shift travel	
13	6,050	Max. side reach to machine centre	









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SHINRAI PRIME

Engine Gross power

74.3 HP

Operating Weight

STD: 8,050 4WD: 8.150

Loader: 7,800

Bucket Capacity Backhoe: 0.26 m³

Loader: 1.1 m³