

Reliable solutions



NEW !

SHINRAI

• RELIABLE • TRUSTWORTHY • CAPABLE

Aap Ka Sabse Bharosemand Saathi



Model SHINRAI PRIME Engine Gross power **74.3 HP**

Operating Weight STD: 8,050 4WD: 8,150 Bucket Capacity Backhoe: 0.26 m³ Loader: 1.1 m³



RELIABLE ENGINE FOR EXCEPTIONAL PERFORMANCE

- New fuel efficient CEV IV Japanese engine
- Superior engine performance
- Engine control unit (ECU) equipped with CRDI (Common Rail Direct Injection) system Provides higher output power and torque rise while offering exceptional fuel efficiency
- 4 valve per cylinder
- Engine mounted After Treatment Device (DOC- Diesel Oxidation Catalyst)
- Automatic fuel priming system

RELIABLE DRIVE LINE FOR TOP-NOTCH PERFORMANCE

- Electronically controlled parameters for optimized performance and increased life
- Proven transmission and axle system
- Rotary fuel injection pump
- 4 wheel drive*



PRIME



PRIME

HYDRAULIC PUMP

CONTROL VALVE

EXCELLENT HYDRAULIC SYSTEM FOR HIGH CALIBER PERFORMANCE

- Provides great performance with fuel efficiency
- High/Low pressure unloader systems ensure optimum hydraulic oil, when needed
- Ensures optimal utilisation of engine and hydraulic power
- Long lasting hydraulic hoses for superior life





A CABIN THAT OFFERS MAXIMUM COMFORT AND SAFETY

- Well ventilated and spacious cabin
- Excellent visibility
- Comfortable operator seat
- Large leg space for comfortable
 operation
- Ergonomic controls
- User-friendly consoles

- Multi-functional digital display
- Ample storage space
- Air-conditioner*
- Music system with FM and USB
- Meets FOPS* safety requirements
- Quieter engine



PRIME

BUCKET OPTIONS

LOADER BUCKETS

- Standard Loader Bucket -Used for standard operations like loading and dozing.
- **6-in-1 Loader Bucket** Multipurpose bucket used for loading, dozing, leveling, grabbing, spreading and backfilling.

BACKHOE BUCKETS

- Standard Backhoe Bucket- Recommended for soil applications.
- Heavy Duty Bucket Used in crushing Application.
- **Trench Buckets** Used for pipe-laying, optical fibre cable laying and trench applications.
- **Ditch Cleaning Bucket** Comes with perforated holes which help in draining water so that solid waste load can be taken and used for solid waste management.

TYRE OPTIONS

General purpose tyres & heavy duty tyres

- General purpose tyres recommended for soft soil strata applications.
- Heavy Duty Tyres recommended for hard soil strata applications.



ATTACHMENT OPTIONS

 Rockbreaker - Extensively used for demolition applications

 Quick Coupler - allows fast changeover of bucket and multiple attachments. • **Auger** - Used for drilling, pole erection, plantation, fencing, casing applications.

• **Ripper Tooth** - Used for pulling a block of rock or concrete.



- Fault codes display in the cluster for ease of maintenance and troubleshooting
- Field diagnostic vehicle for immediate on-site resolution
- On-site and plant-based training programmes



GROUND-LEVEL INSPECTION



Ladakh

🛑 TATA HITACHI OFFICE 🔺 DEALER H O 🔹 DEALER OUTLET 💷 HYDRAULIC WORKSHOP

SPECIFICATIONS

ENGINE

Make	
Model	V3800-TIE4B
Туре	Turbo-charged, inter-cooled direct injection
Gross Power	
Battery (with cut-off switch)	
No. of Cylinders	4 nos
Bore	
Stroke	
Displacement	
Alternator	

HYDRAULIC SYSTEM

Excellent Hydraulic System (EHS) with Tandem gear pump for lower fuel consumption 245 har le.

Control	Valve:	Sectional	valves	that	are	individually	/ replac	eable

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

Front Axle

Heavy-duty, non-powered axle
Floats up to +/-8 degrees to handle

• Rear heavy-duty Carraro axle

Rear Axle

Speeds @ 1950 rpm with standard tyres

High brake torque

- uneven terrains • 4 WD Front Axle, King Pin Angle=7°, Camber
- Angle=1.5, Ratio Total-13.714:1

SPEEDS

Forward	Reverse
1st	1st6 kmph
2nd 8 kmph	2nd9 kmph
3rd 17 kmph	3rdNot recommended
4th32 kmph	4th Not recommended

BACKHOE PERFORMANCE

Backhoe Bucket digging force 5,685 kgf	Backhoe Arm Length 1.96 m
Backhoe Arm digging force	Backhoe Boom Length 2.46 m
Slider Frame Travel	Bucket width 752 mm

Dim. Notations	Dimension	Description
A	4,700	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 (Stabilizer fully extended position)
Н	2,690	Dump height
I	3,305	Load over height
J	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

Turning Radius Outside Loader Bucket	Hydraulic actuation with priority for smooth control inner wheel braking 11.73 m 8.6 m
TYRES	

Front (Std.).... 9x16, 16 PR Rear (Std.)... Rear (HD) 14x25, 20 PR

REFILL CAPACITY

Fuel Tank	
Engine Oil	
Engine Coolant	
Transmission Oil	
Rear Axle Oil	
Hydraulic Oil Refill	
Front Axle-Live	8.91 [4WD]

LOADER PERFORMANCE

Below ground dig depth		
Loader bucket break-out force		
Loader arm break-out force		
Payload		
Loader Bucket capacity		
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		
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 m ³	695mm	195 kg	5
Trench bucket	0.09 m³	1 ft	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

All dimensions are in mm



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