

## Asia MotorWorks Ltd.

## 2523 - 4300 WB 6 X 4 TIPPER

### CHASSIS NOMINAL DIMENSIONS - Unladen (mm)

A) Wheel Base	:	4300
B) Front Overhang	:	1295
C) Rear Overhang	:	1440
D) Overall Length	:	7110
E) Overall Height (Cab)	:	2780
F) Overall Width (Cab)	:	2370
G) Overall Width (Rear Axle)	:	2494
H) Track - Front	:	2020
I) Track - Rear	:	1856
J) Front Axle to Back of Cabin	:	760
K) Approach Angle	:	19°
L) Departure Angle	:	60°
M) Min Ground Clearance	:	270
N) Frame Width	:	864

### WEIGHTS (Kgs)

	Unladen Chasis	Unladen Vehicle With Body	Laden (CMVR)
Front Axle	: 3470	4800	6000
Rear Axle	: 4210	7750	19000
Total	: 7680	12550	25000

### ENGINE

Model	: CUMMINS - B5.9 215HP - BS III
Type	: DI - Turbo Charged Cooled Diesel Engine
No. of Cylinders	: 6 Inline
Bore x Stroke	: 102 x 120 mm
Capacity	: 5883 cc
Max Power	: 158 KW @ 2200 Rpm
Max Torque	: 836 Nm @ 1500 Rpm
Compression Ratio	: 18:01
Oil Sump Capacity	: 15.4 Ltrs
Air Filter	: Dry type Remote Mounted
Oil Filter	: Full Flow Paper Type
Fuel Filter	: Single filter with water separator
Fuel Injection Pump	: Rotary FIP
Fuel Tank	: 220 Ltrs

### CLUTCH

SETCO, Size: 380 dia  
Single Dry Plate Coil Spring type  
Hydro-Pneumatically operated.

### GEARBOX

Model: 9S 1110 ZF Gear Box - Synchromesh  
Speed Ratios: Crawler 12.73  
I - 8.83, II - 6.28, III - 4.64, IV - 3.48, V - 2.54,  
VI - 1.81, VII - 1.34, VIII - 1.00, Reverse - 12.04

### PROPELLER SHAFT

1710 Series drive shaft - GB to R1 Axle;  
SPL 90 Series - Inter Axle R1 Axle to R2 Axle

### REAR AXLE

Fully floating Tandem Hande Hub Reduction Rear Axles - Both Driven Hypoid Bevel Gears with Interaxle diff.  
Lock - Air Operated Ratio: 6.72

### FRONT AXLE

Forged "I" Section - Reverse Elliot type

### FRAME

BSK 46 Steel, Ladder Type Bolted Cross members.  
Side Member: 270 x 82 x 8mm Channel Reinforced with inner channel section of 7mm Thick

### SUSPENSION

Front: Semi - Elliptical leaf springs with shock absorbers. Span : 1650mm.  
Rear : Fully articulated Inverted Semi - Elliptical leaf Springs on Tandem Bogie Trunnion & with Torque Rods. Span : 1350 mm

### SHOCK ABSORBERS

Heavy Duty, Double Acting Hydraulic Shock Absorbers on Front Suspension - 2 Nos.

### STEERING

Integral Power Steering, with Double UJ. Ratio 20.4:1  
Adjustable Steering Wheel. Steering Wheel Dia: 475 mm

### WHEELS & TYRES

Rims : B7.5 x 20 - 10 Bolts, Spigotted  
Tyres: Front: 11.00 X 20 - 16 PR - 2 Nos (Rib)  
Rear: 10.00 X 20 - 16 PR - 8 Nos (Lug)  
Spare : 11.00 X 20 - 16 PR - 1 No (Rib)

### BRAKES

Service Brake : Dual Circuit full air  
Parking Brake : Spring Actuated on Rear Axles  
Engine Exhaust Brake : Butterfly Type.

### ELECTRICAL SYSTEM

System : 24 Volts (Negative Earth)  
Alternator : 75 Amps (A/c)  
Battery : 2 x 12V x 130 Amp hr (20 hr rating)

### CABIN

Fully furnished, Tilttable Sleeper Cabin, A/C

### BODY & TIPPING SYSTEM

14 cu.m. rock, body with rock breakers & sandwich floor, Single ram, Front end Tipping - Tipping angle > 48°

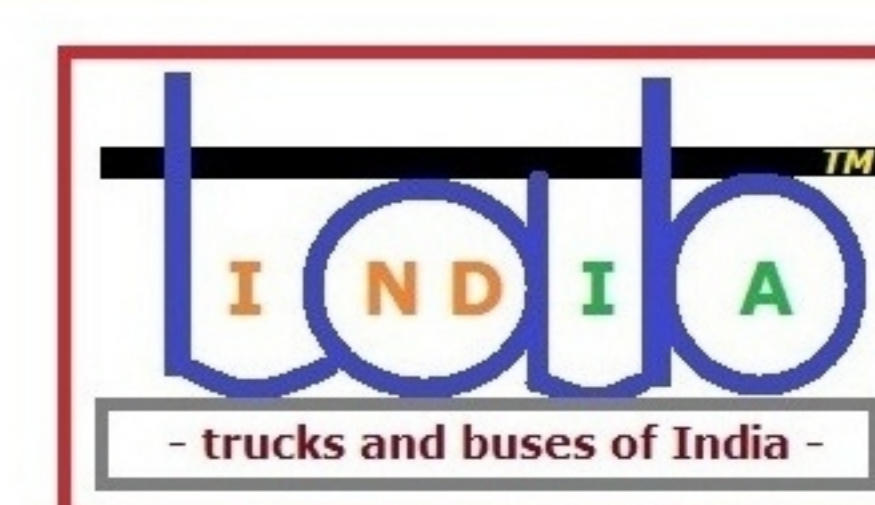
### PERFORMANCE (@ 31,000 Kgs)

Max Speed - Geared (KMPH)	: 80
Max. Gradeability (%) (restricted by tyre adhesion):	
	Running Restart
Crawler	54 54
First Gear	32 31
Min. turning Circle radius (mm)	: 8810

Do not weld or drill chassis  
Technical Specifications are subject to change without notice  
Accessories shown are not part of the standard fitment



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