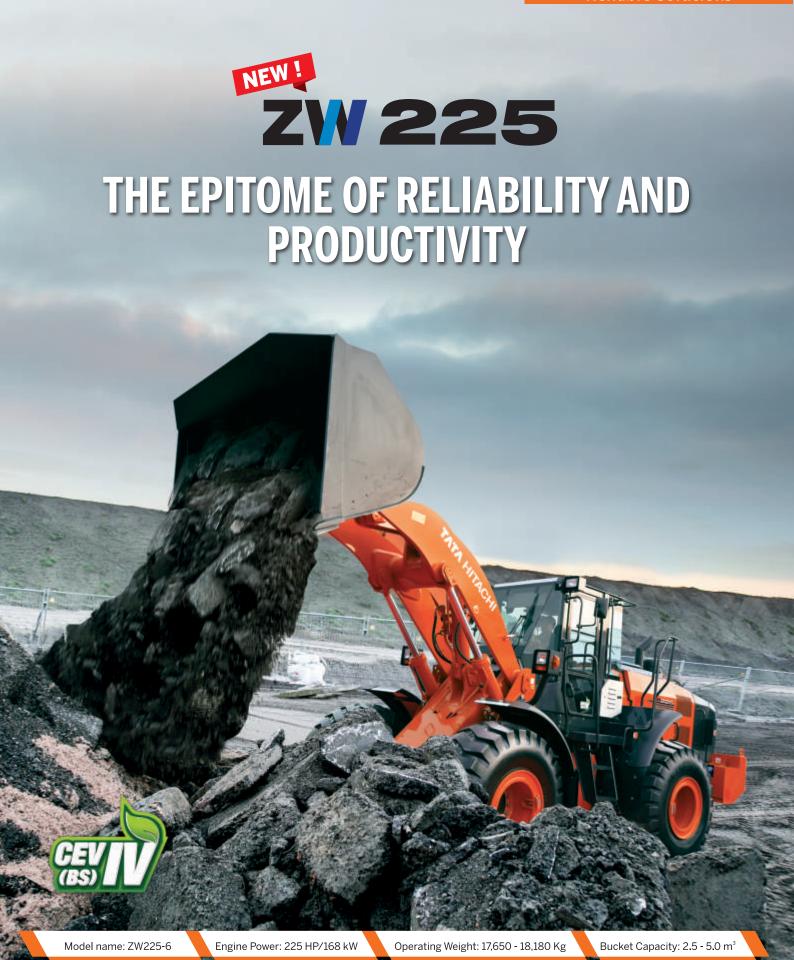




Reliable solutions





Unparalleled Productivity and Reliability

The all-new ZW225 Wheel Loader exemplifies Tata Hitachi's commitment to offer the best value to customers in terms of reliability, productivity and return on investment. The ZW225 is packed with state-of-the art innovative technologies that are primed to deliver on this commitment to customers. Capable of delivering exceptional performance, without compromising on fuel efficiency, ZW225 is a versatile Wheel Loader that effortlessly lends itself to a variety of applications, further maximising the customer's earning potential. The ZW225 has also placed special emphasis on operator comfort and convenience, amplifying the productive potential of the machine. ZW225 is powered by an engine that adheres to CEV-IV emission norms, exemplifying our long-term commitment towards larger ecological imperatives and a cleaner environment.



Engineered for higher productivity and efficiency (Page 4-5)



Unbeatable comfort and safety (page 12-13)



Unmatched Reliability (page 6-7)



Simplified Maintenance (page 14-15)



Lower Operating Cost (page 8-9)



Telematics powered by InSite (page 16)







Engineered for Higher Productivity and Efficiency



Powerful, efficient and reliable CEV-IV compliant Cummins engine with common rail direct injection (CRDi) and after-treatment (DOC, DPF & SCR) system

This high power CRDi engine provides higher peak torque at lower rpm which helps in achieving excellent

Wastegateturboch argermaintains the optimum in let air pressure for better engine performance.

Reduced emissions

The new Cummins QSB 6.7 engine is equipped with efficient after-treatment system which prevents unburnt carbon particles and pollutants discharging into the atmosphere. The inbuilt Selective Catalytic Reduction (SCR) system uses injected urea into exhaust gas to reduce nitrogen oxides (Nox). This cutting-edge technology helps the environment, helps the environment by ensuring compliance to CEV IV emission norms.

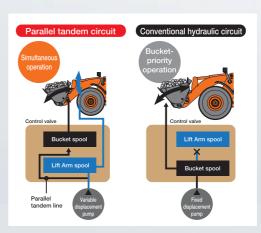


Z Bar Linkage

The simultaneous movement of the bucket and lift arm ensures a smooth digging operation. Z Bar linkage improves bucket penetration which helps to increase productivity.

Parallel movement ensures smooth digging operation.

Tandem function prioritizes the bucket movement during loading operation.



Clutch Cut Position Switch

Clutch cut-off timing is adjusted by sensing brake pedal depression for smooth, efficient truck loading.



Salient Features

- Parallel Tandem Hydraulic Circuit
- Automatic Bucket Leveler
- Lift Arm Kick Out Function

Automatic Transmission with Load Sensing System.

- Clutch Cut Position Switch
- Additional Electrical Pump for Emergency Steering
- Limited Slip Differential (LSD) in both forward and reverse axles
- Down Shift Switch (DSS)
- 1st Gear Fix Switch







Unmatched Reliability

- Guaranteed uptime with Hitachi's advanced hydraulic system.
- Durable, safe and low maintenance with inboard mounted 4 wheel
- Easy maneuverability with heavy duty, proven axles and transmission.
- Rigorously tested structures which ensures longer life.
- This machine is equipped with sturdy fluid tanks for the ultimate leak protection which is far superior and reliable.
- Fully enclosed fuel and DEF tank (Diesel Exhaust Fluid).
- Parking brake switch with transmission interlock- It prevents movement of machine by dis-engaging transmission power from the wheels while parking brake is engaged. This prevents accidental damage to parking brake system.

Strengthened components

Lift arm torsion which enhances the productivity during lifting operations. Strengthened buckets and linkages for longer life.

Durable materials

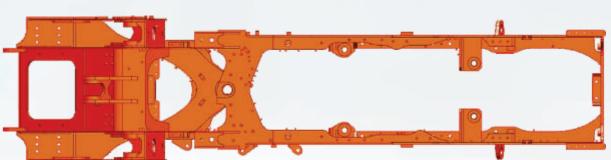
High quality radiators improve resistance to corrosion and enhance the overall durability of the ZW225 wheel loader. Robust mainframe and cylinders for long lasting performance.





Transmission









Low Cost of Operation

Thanks to the powerful Cummins engine and new generation hydraulics which helps in providing more output with lesser fuel consumption. Equipped with common rail-type fuel injection system and reliable after-treatment system Which further reduces maintenance cost

More savings with extended oil change intervals for engine oil/filter, fuel filter and

Inboard mounted fully hydraulic braking system with multiple oil immersed discs gives the braking system a virtually maintenance free life span.

Improved fuel efficiency-

The ZW225 demonstrates greater fuel efficiency than the previous model during V-shape loading, and load and carry operations. This results in considerable savings for operating costs.

Variable Displacement Load Sensing Axial Piston Pump optimizes hydraulic flow and power requirement adding to higher performance and better fuel efficiency.

The new CEV-IV compliant engine has Diesel particulate filter (DPF) which helps in reducing pollutants. It can be cleaned at the workshops and re-used to lower maintenance costs.

New 5-Speed Automatic Transmission

The new transmission comes standard with the Auto mode that can automatically select an optimum gear according to the load, thereby reducing fuel consumption. This 5-speed automatic transmission offers improved power distribution to wheels across all speed ranges, by better optimizing gear ratio compared to the conventional 4-speed transmission.

Better Engine Control and Optimization

The Engine Control Module (ECM), ensures that the machine operates at optimal performance. The ECM monitors most of the sensors in the engine bay in order to manage the machine's injection timing and regulates the emission control systems.













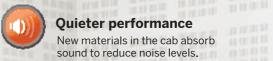
Tata Hitachi Genuine Spare Parts and Lubricants





THE EPITOME OF RELIABILITY AND PRODUCTIVITY

The ZW225 has been designed and built using market leading Japanese technology. Developed to perfection, with an emphasis on the environment, operator comfort and safety, it responds to customer demands for exceptional productivity at the lowest d Sales, king conditions. possible cost of ownership in Indian working conditions.





Enhanced fuel efficiency CEV IV engine with single unit

after-treatment system



That enables better digging performance, impressive travel speed and has excellent fuel efficiency.





Low running costs Fuel savings in load and carry operations



Bucket availability

Wide range of bucket options for various applications

Superior comfort

storage compartments.

Spacious cab with several



Robust machine Heavy duty axle and



Easy to operate

Multifunctional monitor shows information at a glance.



Enhanced design

Excellent rear view thanks to the curved engine hood.



User-friendly

Effortless single pilot operating lever and power steering system.



Convenient access

Easy-to-open wide engine

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Unbeatable Comfort and Safety

Quieter engine and sound insulated cabin for better operator comfort.

The 360° panoramic view for the spacious cab creates a comfortable working environment, and helps to increase safety and productivity. The rear-view camera also contributes to excellent all-round visibility and safety on the job site

Enhanced rear visibility- The muffler and air intake have been positioned and aligned to improve the rear-view visibility from the cab, enhancing safety on a variety of job sites.

The rear view monitor allows the operator to see the rear of the machine, including a view behind the counterweight enhancing safe operation.

To ensure a smooth drive on all kinds of terrain, the ride control feature (optional) prevents unnecessary pitching through the accumulator and movement of lift arm cylinders.

The convenient utility space at the rear of the ZW225 has been designed to provide sufficient storage for a variety of tools.

Double door access and safety hand rails for enhanced safety.

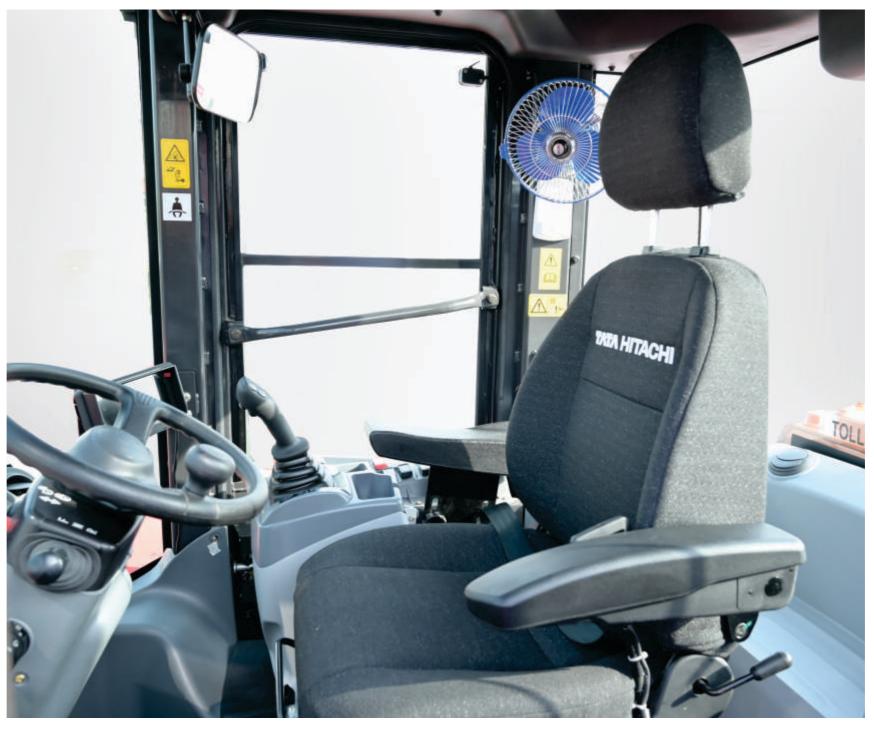


Rearview monitor.

Rearview camera



Panoramic cab



Fitted with a multi functional LCD colour monitor that shows useful information such as fuel and urea levels, operating mode and other working parameters



LCD colour monitor

Automatic air-conditioning system with multiple vents provides cleaner and cooler air to the operator for comfortable operation



Auto air-conditioner



Steering



Storage compartment

The seat and tilt-able steering column can be adjusted to offer customized position to the operator for uninterrupted fatigue free operation.



Adjustable Steering Column

AM/FM Radio has an auto-tunning feature and 2 speakers stereo system provides excellent sound quality. An AUX port (USB type) is provided for mobile connectivity and charging.



Music system & Speakers

The mechanical suspension seat absorbs shocks and vibration from the machine in order to reduce operator fatigue.



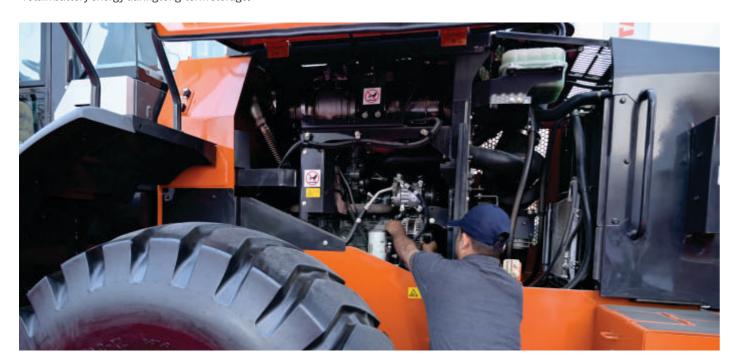
Comfortable Suspension Seat

12



Simplified Maintenance

- With long service intervals and quality components, maintaining the machine is easy.
- The engine air filter has been located to the rear of the engine compartment, providing easier access at ground level for maintenance. The urea tank is also strategically positioned for convenience and safety.
- Equipped with one battery compartment instead of two, which provides easier access for maintenance and battery replacement. This results in minimal downtime and a high level of availability.
- For safer and easier maintenance, the battery disconnect switch is now included as standard. This helps to avoid electrical accidents and retain battery energy during long-term storage.



Easy access to consumables:

The engine cover swings up to provide a wide service space. Inspection / maintenance points are concentrated for easy inspection and servicing from the ground.



The engine air filter has been located to the rear of the engine compartment, providing easier access at ground level for maintenance. The urea tank is also positioned for convenience.

sides for convenient access. This helps to ensure routine maintenance is completed quickly to ensure a reliable performance.





Battery Compartment

The engine covers open fully from both

Automatic Reversible Cooling Fan:

Keeps the radiator clean at all times. The cooling fan is automatically selfreversed every 30 minutes to blow dust off the radiator.





Annual Maintenance Contract





Planned budgeted activityno sudden expense



Maintenance by Tata Hitachi trained professionals- machine in safe hands



Expert service in an emergency- quick support



Increased uptime and longer machine life



Peace of mind



Discount on parts purchased*

*Conditions apply

Full Maintenance Contract





Guaranteed availability - Increased uptime and maximum production.



Fix before failure to ensure maximum reliability of machines.



Onsite availability of float aggregates.



Trained and experienced manpower at site on 365 x 24 hours basis.



Exclusive onsite warehouse for complete contract period.



Higher resale value of equipment after the end of the contract.

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TELEMATICS

InSite is a GPS/GPRS based remote machine monitoring system for tracking various machine parameters which helps in better Business decisions. InSite can be accessed by any web and application based platform making it easy to track the machine's performance from any location at any time.



BE IN SYNC WITH YOUR MACHINES





Asset Utilization



Overall Fleet Summary in Graphical Widgets (Dashboard)



Asset Operation



Ability to Track

Machine Maintenance /

Service Due Date

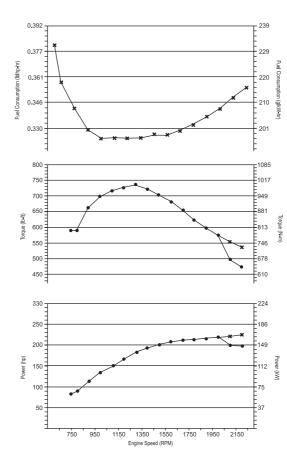


Fuel Levels



Fleet Management

Specifications



POWER TRAIN

*With 23.5-25-20PR tires

AXLE AND FINAL DRIV	/E
Front & rear axle Front	Four-wheel drive system Semi-floating Fixed to the front frame Trunnion support Limit Slip Differential Total 24° (+12°,-12°) Heavy-duty planetary, mounted inboard
TIRES	
	23.5-25-20PR Refer to standard & optional equipment list
BRAKES	
Service brakes	Inboard mounted fully hydraulic 4 wheel wet disc brake. Front & rear independent brake circuit
Parking brakes	Switch operated spring applied, hydraulically released, dry disc type with external output shaft
STEERING SYSTEM	
Steering angle Cylinders	Articulated frame steeringEach direction 40°; total 80°Double-acting piston type2 x 70 mm x 442 mm
HYDRAULIC SYSTEM	
Arm controls	controlled by multifunction lever Four position valve; Raise, hold, lower, float Three position valve; Roll back, hold, dump
Maximum flow.	s steering pump)Variable Displacement Axial Plunger Pump271 L/min at 2170 min¹(rpm) ure27.4 Mpa
Maximum flow.	Fixed Displacement Gear Pump 43.2 L/min at 1500 min ⁻¹ (rpm) sure24.5 MPa
Hydraulic cylinders	
Туре	Double acting type
No. x Bore x Str	okeArm: 2 x 130 mm x 880 mm Bucket: 1 x 165 mm x 510 mm

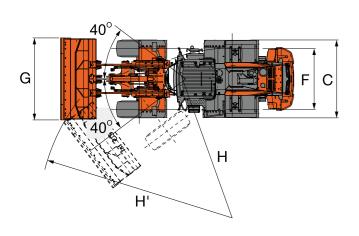
Filters......
Hydraulic cycle times

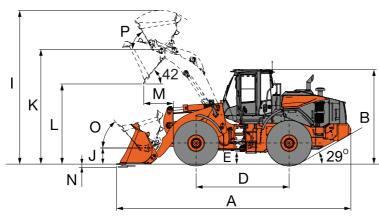
SERVICE REFILL CAPACITIES

.....Full-flow 10 micron return filter in reservoir



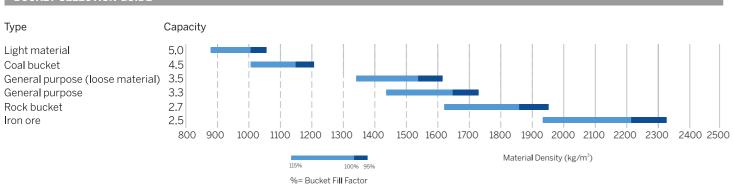
DIMENSIONS & SPECIFICATIONS





Bucket type		Bolt on teeth			Bolt-on cutting edge				
Bu	cket capacity	ISO heaped	m³	2.5*	2.7*	3.3	3.5*	4.5*	5.0*
		ISO struck	m³	2.2	2.3	2.8	3	3.8	4
Α	Overall length		mm	8,345	8,420	8,525	8,570	8,640	8,525
В	Overall height		mm			3,360			
С	Width over tires		mm			2,785			
D	Wheel base		mm			3,290			
Ε	Ground clearance		mm			450			
F	Tread		mm			2,160			
G	Bucket width		mm			2,910			3,500
Н	Turning radius (Centerline	e of outside tire)	mm			5,770			
H'	Loader clearance radius,	bucket in carry position	mm	6,5	60	6,375	6,620	6,655	6,880
1	Overall operating height		mm	5,390	5,515	5,395	5,680	5,885	5,815
J	Carry height of bucket pir	า	mm			300			
K	Height to bucket hinge pi	n, fully raised	mm			4,070			
L	Dumping clearance 45 de	egree, full height	mm	2,885	2,820	2,900	2,710	2,665	2,755
М	Reach, 45 degree dump, f	full height	mm	1,030	1070	1,020	1,180	1,235	1,160
Ν	Digging depth (Horizonta	l digging angle)	mm			120			
0	Max. roll back at carry po	sition	deg	4	40	50		40	
Р	Roll back angle at full heig	ght	deg			60			
	Static tipping load *	Straight	kg	14,858	14,360	14,960	14,803	14,530	14,370
	Full 40 degree turn		kg	12,683	12,258	12,770	12,636	12,403	12,267
	Breakout force		kN	182	170	156	149	121	130
			kgf	18,581	17,309	15,860	15,223	12,307	13,254
	Operating weight *		*kg	17,650	18,180	17,760	17,810	18,000	18,170

BUCKET SELECTION GUIDE



MONITORING SYSTEM	
Gauge: coolant temperature, fuel level	•
Indicator lights: clearance lights, control lever lock, low fuel level, high beam, parking brake, turn signals, work lights	•

Indicator on multifunction monitor: air conditioner display, clock, DEF alarm indicator, DEF level gauge, fan reverse indicator, F-N-R/ Shift position indicator, forward/reverse selector switch indicator, hold display, hour meter, odometer, seat belt indicator, speedometer, tachometer, transmission auto-shifting indicator, transmission oil temperature

Warning lights: air filter restriction, brake oil low pressure, communication system error, discharge warning, engine oil low pressure, engine warning, hydraulic oil level, low steering oil pressure, overheat, transmission warning

BRAKE SYSTEM Front & rear independent brake circuit Inboard mounted fully hydraulic 4 wheel wet disc Spring-applied/Hydraulic-released parking brake

HYDRAULIC SYSTEM	
Bucket auto leveler (Automatic return to dig control)	•
Control lever	
for 2 spools control valve	
Multifunction lever (MF lever)	•
Control lever lock switch	•
Bucket auto level	•
Hydraulic filters	•
Lift arm kickout	•
Reservoir sight gauge	•
Ride control system (OFF-AUTO type)	0

TIRES	
23.5-25-20 PR (L3)	•

Articulation lock bar	•
Auto lubrication system	0
Bucket cylinder guard	0
Counterweight, built-in	•
Drawbar with locking pin	•
Emergency steering	•
Fenders	
for 23.5R25 (Front & rear fenders with mud flaps)	•
Front windshield guard	0
InSite	•
Lift arm	
Standard lift arm	•
High lift arm	0
Lift & tie down hooks	•
On board information controller	•
Pilfer proof	
Battery cover with locking bracket	•
Lockable engine cover	•
Lockable fuel refilling cap	•
Rear licence plate bracket	•
Standard tool kit	•

OPERATOR'S STATION	
Adjustable steering column	•
AM/FM radio with AUX for digital audio player	•
Auto control air conditioner with single intake filter	•
Auto idle	•
Coat hook	•
Glove compartment	•
Rear view camera & monitor	0
Rear view mirrors	
Inside (2)	•
Outside (2)	•
Retractable seat belt	•
ROPS (ISO3471), FOPS (ISO3449): multi-plane isolation mounted for noise, vibration reduction	•
Rubber floor mat	•
Seat	
Weight adjusted suspension seat with headrest: fabric, dumper, adjustable weight-height, reclining angle, armrest angle, head rest height.	for •

Storage	
Cup holder	•
Document holder	•
Hot & cool box	•
Seatback pocket	•
Sun visor	•
Textured steering wheel with spinner knob	•
Tinted safety glass	
Front windshield: laminated	•
Others: tempered	•
Windshield washer front and rear	•
Windshield wipers front and rear	•

Steering system Wheel steering

ENGINE	
Air intake	
Pre-cleaner (Turbo II)	•
Air filter double elements	•
Automatic reversible cooling fan with heat sensing	•
Cartridge-type engine oil filter	•
Cartridge-type fuel pre-filter	•
Cartridge-type fuel main filter	•
Coolant reservoir sight gauge	•
DEF/AdBlue® tank inlet strainer	•
Engine auto shut-down control system	0
Fan guard	•
Radiator	
Standard fin pitch radiator	•

ELECTRICAL SYSTEM	
Backup alarm	•
Batteries	
Standard batteries (130AH-720CCA)	•
Battery disconnect switch	•

Note: All dimensions, weight and performance data based on ISO 67461:1987,ISO 7131:2009 and ISO 7546:1983 *: Static tipping load and operating weight marked with *include 23.5-25 tires (No ballast) with lubricants, full fuel tank and operator. Machine stability and operating weight depend on counterweight, tire size and other attachments.

LIGHTS	
Brake & tail lights	•
Clearance lights	•
Headlights	•
Rotating lamp	0
Turn signals with hazard switch	•
Work lights	
Front lights on cab (2)	•
Rear lights in rear grille cover (2)	•

Automatic transmission with load sensing system	•
Automatic transmission with load sensing system	
Clutch cut position switch	•
Differential	
LSD (Limited Slip Differential, front and rear)	•
DSS (Down Shift Switch)	•
Forward/Reverse lever	•
Travel mode selector (Auto -Manual)	•
1st speed fixed switch	•

• Standard equipment

O Optional equipment

Our Network



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ini Excavat











