

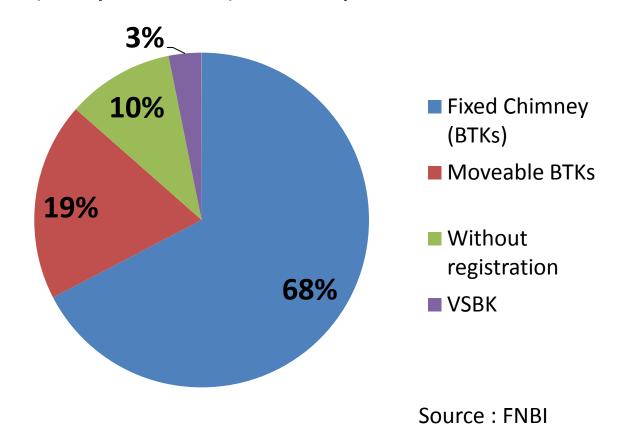
Parameter	Value		
Number of Registered	429(826 FNBI)- 701 is		
Establishments	operational – 553 fixed, 157		
	moveable, 85 without		
	registration, 499 members		
Quantity of Bricks Sold	753 million pieces		
Value of Sales	2.3 billion Rupees		
Persons Employed	42,003(139450- FNBI)		
FNBI source	102620 Male, 36830 women		
Value of Output	2.5 billion Rupees		
Total Value Added	1.8 billion Rupees		

Reference: CBS-2008

Indicators of Nepal's Brick Sector (Registered Establishments Only)

Number of Registered Kiln under Brick associations: 499(22 district)

other district where there is no associations, is assumed to be around 826(As per FNBI), 701 operational



Growth rate- 20%

Contents

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Department

- Registrations- Large brick kilns- Department of Industry- medium and small- Department of cottage & small scale industries- Ministry of Industries
- Environmental Monitoring Department of Environment- Ministry of Environment, Science & Technology.
- Stack emission measurement capability- NBSM

History- Phasing out brick firing kilns

- Moveable kilns BTKs phased out form year 2012 in Nepal.
- Moveable kilns BTKs phased out form Kathmandu valley in year 2004.
- Clamp kilns Phased out from 2015- Rice husk fired clamp kilns- Running

Environmental provision for registration

- IEE/EIA is essential for new kiln establishment
- Forest management- previously 5-km distance from forest- changed to now forest products will be used within the brick kilns
- There is no provision regarding top soil and soil mining within the brick industry

Operational regulations

	VSBK	Natural	Forced draft-
		draught-BTK	BTK
Distance from Urban	500m	1km	1km
Area			
Minimum Land	100ft Radius	200ft Radius	200ft Radius
Requirement			
Distance from Forest	NA	1km	1km
Chimney Height	40ft	30m	17-30m*
SPM Emission	400mg/Nm^3	700mg/Nm^3	$700 mg/Nm^3$
Standard			

Source: Environment Protection Regulation

Notes: * 17m for forced draught and 30m for natural draft

Mandatory ladder/hole/ station within the chimney

Monitoring mechanism and limitations

- Department of Environmental Private companies/consultants- Outdated equipments- no measurement SOP/ protocol
- Around 700 kilns operation- 20-30 units measurements- random basis.
- Skilled manpower of emission measurements-Lab and equipments
- Two lab accredited from NBSM

Barriers

- Coordination between departments- Random checking from environment department-Department of cottage & small scale industries
- Equipments for departments
- Manpower
- Penalty low??
- Relocations from Kathmandu valley- Brick transportation from 200 km- Transportation emissions/ cost- road conditions- traffic management- Alternate building materials

Way forward

- Integrated policy- Brick sector- Alternate bricks- building code.
- Equipments for departments/ Lab- pollution control board
- Manpower
- Clay Mining approach and planning.
- Ambient air quality standards- Dust
- Relocations transportations

