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STANDARD OF LIGHTING IN COAL MINES

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COAL INDIA LTD EMPLOYEES' SUBSIDIARY
MUTUAL TRANSFER FORUM

Standards of illumination in opencast coal mines

Abbreviations- V: Vertical; H: Horizontal

Serial No.	Place/Area to be illuminated	Minimum standards of illumination to be provided (in lux)
1	Work place of Heavy Machinery	15H, 25 V (so as to cover depth and height through which the machine operates.)
2	Drilling operations	
	(i)Area where drilling rig works	25 V (so as to illuminate full height of the drilling rig)
	(ii)Area where drill holes exists	15 H
3	Places where manual work is done	15 H,25V
4	Places where loading, unloading or transfer, loading of dumpers, trucks or train is carried on (including OB Dump and Coal Stack Yard)	15 H,15V
5	Operators cabins of machines or mechanisms	50 H at all places of operation
6	Haul roads for Trucks and Dumpers	10 H
7	Rail haulage track in the pit	10 H

8	Roadways and footpaths from bench to bench	10 H
9	Permanent paths for use of persons employed etc.	10 H
10	In-pit Crusher/Feeder Breaker	40 H
11	Hand Picking Points	50 H
12	Conveyers	
	(a) Transfer points and drive/tail end area	40 H
	(b) Along conveyor	20 H
13	Coal Handling Plant	
	(a) Places of crushing, screening, segregation and loading/unloading	40 H
	(b) Operation points	50 H
	(c) Other places (in general)	20 H
14	Pumping Station	40 H
15	(i) Electrical Sub-station	100 H, 50 V
	(ii) Other places of operation of electrical apparatus/equipment	20 H, 20 V
16	First Aid station	50 H
17	Rest shelter	30 H
18	Workshop	100 H, 50 V
19	Parking Yard	50 H

20	General working areas as determined by the Manager in writing	10 H at the level of surface to be illuminated
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Standards of illumination in UG mines

Serial No.	Place/Area to be illuminated	Minimum standards of illumination to be provided (in lux)
1	every shaft landing and shaft bottom or siding which is in regular use	50 H
2	travelling roadway and haulage roadway including man-riding roadway and every incline in use	10 H, 10 V
3	haulage roadway (junction) at which tubs are coupled and uncoupled	30 H
4	places of loading and unloading	30 H, 20 V
5	every room and place containing any engine, motor or other apparatus in regular use	30 H
6	any working face and goaf edge of depillaring panels	20 H, 30 V
7	ladder way / man way	15 H
8	pumping station	30 H
9	area under filling / stowing	10 H
10	conveyors (a) transfer points and drive / tail end area (b) along conveyor	40 H 20 H
11	hand picking points	50 H

12	loco charging station	50 H
13	UG garage / workshop	50 H
14	(a) electrical substation (b) other places of operation of electrical apparatus / equipment	100 H, 50 V 20 H, 20 V
15	every first-aid station	50 H
16	miners station / rest shelter	25 H
17	coal handling plant (a) place of crushing, screening, segregation and loading / unloading (b) operation points (c) other places (in general)	40 H 50 H 20 H
18	workshop at surface	100 H, 50 V
19	General working area as determined by the manager in writing	10 H at the level of surface to be illuminated