

SOLUTIONS FOR MINE ILLUMINATION

Our products are designed to meet specific end use requirements of customers.

◆ Quarry Lighting

◆ Problem identification

To illuminate the quarries, meeting the requirements laid down by Director General Mine Safety, the luminaries are required to be fitted at a minimum distance of 100 meters away from the working faces so that these are not required to be shifted every time at the time of blasting.

◆ Our Recommendations

We have developed high intensity, long range LED flood lights with lasting performance producing yellow coloured light which is the requirement of coal mines have proved economical and useful. These lights when fitted on our telescopic tilting type High Mast Lighting Towers with skid / trolley base for ease of movement from one place to another or one position to another have proved ideal proposition.

Our lights ranging from 150 watt to 600 watt produce more than 20 lux illumination at a distance of 100 meters against requirement of 10 lux. We recommend the following Sigma lights. Our lights have mandatory BIS approval / certification. These fittings are designed with 4 layers of protection i.e. over voltage, over current, over temperature and short circuit.

600 watt long range LED flood lights

350 watt long range LED flood lights



600W Long Range LED
Flood Lights



350W Long Range LED
Flood Lights

TELESCOPIC TOWERS • ENERGY SAVING LED & HID LUMINAIRES & FIXTURES

with highly polished Stainless steel reflectors having sustained lasting performance for Mining, Industrial, & Commercial applications, Telescopic & Tilting Towers both Ground & Mobile Trolley / Skid mounted.
REGD. OFFICE : P - 27 SAGAR MANNA ROAD, KOLKATA 700 060

P-27, Sagar Manna Road, Kolkata 700 060, Ph. : (033) 2406 1721, 2406 0058,
Mobile : 94330 15081, E-Mail : energy@sigma-lights.co.in
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Website : www.sigma-lights.co.in, CIN No. U32109WB1992PLC056871

Dump yard / Stock yard / Loading Point Lighting

◆ Problem identification

To illuminate Dump yards / stock yards / loading points the lights have to be fitted on the periphery so that movement of Dumpers is not hindered and Dumper operators do not face glare. Areas being large only long range lights can help because DGMS specifies minimum 10 lux illumination all over the place.

◆ Our Recommendations

We have developed high intensity, long range LED flood lights with lasting performance producing yellow coloured light which is the requirement of coal mines have proved economical and useful. These lights for metal mines are with white colour. These lights when fitted on our telescopic tilting type high mast Lighting Towers with skid / trolley base for ease of movement from one place to another or one position to another have proved ideal proposition.

Our lights ranging from 150 watt to 600 watt produce more than 20 lux illumination at a distance of 100 meters against requirement of 10 lux. We recommend the following Sigma lights. Our lights have mandatory BIS approval / certification. These fittings are designed with 4 layers of protection ie over Voltage, over Current, over temperature and short circuit.

600 watt long range LED flood lights

350 watt long range LED flood lights



600W Long Range LED
Flood Lights



350W Long Range LED
Flood Lights



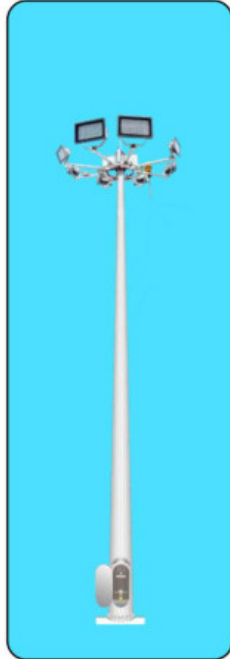
250W Long Range LED
Flood Lights

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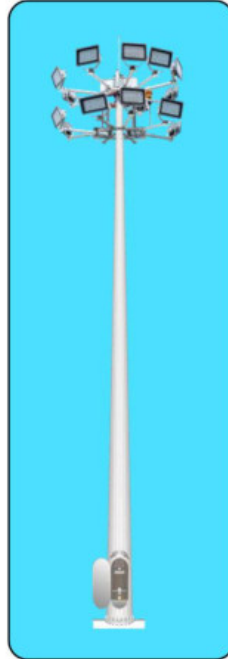
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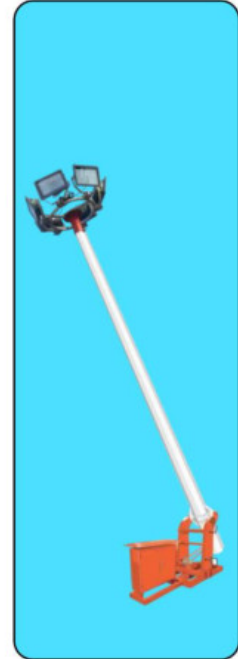
Telescopic Tilting Type
Lighting Mast
12 to 18 Meter



High Mast Lighting System
With Single Cradle
12 to 45 Meter



High Mast Lighting System
With Double Cradle
12 to 45 Meter



Tilting Type Lighting Mast
14 Meter



9 Meter Hybrid Mobile Lighting Tower



9 Meter Solar Mobile Lighting Tower

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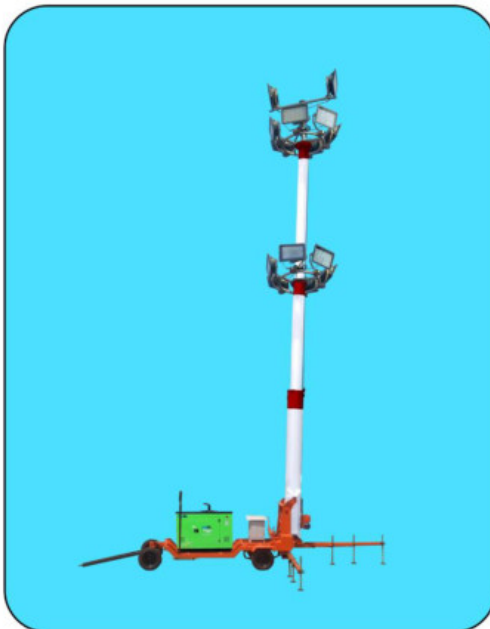
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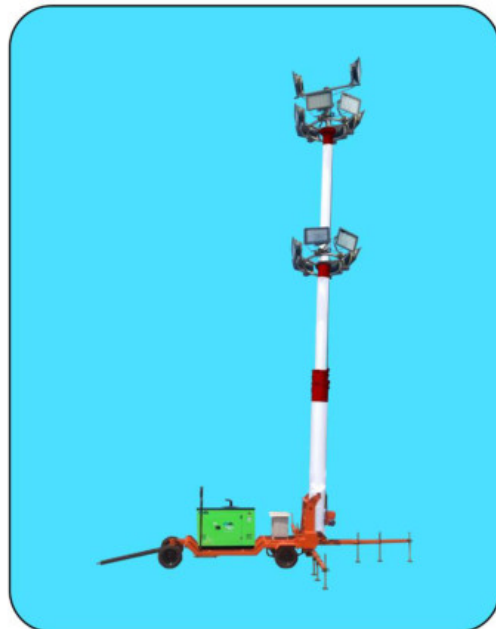
Trolley Mounted Battery Bank



9 Meter Mobile Lighting Tower



14 / 16 Meter Mobile Lighting Tower



16 / 18 Meter Mobile Lighting Tower

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An ISO 9001 Company

SIGMA Searchlights Limited

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Equipment Lighting

◆ Problem identification

For lighting of Equipment like Draglines, Shovels, Excavators & Pay Loaders the main considerations are illuminating the working faces, machinery places and under carriage of these Equipment to DGMS requirements. The luminaries are required to be vibration proof to prevent fusing of lamps so that down time due to non-availability of proper Lighting are illuminated.

◆ Our Recommendations

Sigma luminaries can meet all these requirements. We recommend the following Sigma Lights for Draglines, Shovels, Excavators, Pay Loaders and Dumpers.

Suitable for operation on 240 volt supply (phase to phase)

350 watt high intensity long range LED flood lights for Dragline boom and spread type for Shovels. Yellow coloured lights can be supplied where fog is a major constraint.

250 watt high intensity long range LED flood lights for dragline booms and spread type for Shovels, Excavators & Pay Loaders.

150 watt high intensity LED light for Excavators & Pay Loaders.

40 watt high intensity LED light for under carriage and machinery places of draglines & Shovels.

20 watt high intensity LED light for under carriage of shovels and excavators.

Suitable for operation on 110 volt supply

40 watt high intensity LED light for under carriage and machinery places of draglines & Shovels.

20 watt high intensity LED light for under carriage of shovels and excavators.

Suitable for operation on 24 volt supply. (specify AC or DC)

40 watt high intensity LED light for under carriage and machinery places of draglines & Shovels.

20 watt high intensity LED light for under carriage of shovels and excavators.



350W LED Long
Range Equipment
Lights



250W LED Long
Range Equipment
Lights



150W LED Long
Range Equipment
Lights



40W LED
Equipment Lights



20W LED
Equipment Lights

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Material/ Coal Handling Plant Lighting

◆ Problem identification

Functional requirements for illumination of Material/ Coal Handling plants are such that the luminaries should be dust, vermin & moisture proof. These should also be vibration proof to withstand vibrations incidental to working of the plant.

◆ Our Recommendations

For economical and better illumination at material/ Coal Handling plants as well as Crushing Plants Sigma luminaries are gainfully used.

We have specific lights for Romps, Crushers, stock yards & conveyor galleries meeting individual functional requirements.

Our Tilting type/ Telescopic tilting type specially designed Lighting Mast Towers can be useful substitute for conventional Towers.

◆ We recommend the following luminaries from Sigma

For Stock Yards & Romps illumination

350 watt high intensity long range LED flood lights for Dragline boom and spread type for Shovels. Yellow coloured lights can be supplied where fog is a major constraint.

250 watt high intensity long range LED flood lights for dragline booms and spread type for Shovels, Excavators & Pay Loaders.



350W Long Range
LED Flood Lights



250W Long Range
LED Flood Lights

◆ For Conveyor Galleries

- ◆ 150 watt high intensity LED low-bay lights
- ◆ 70 watt high intensity LED low-bay lights
- ◆ 70 watt high intensity long range LED flood light for stone picking
- ◆ 40 watt high intensity LED deck head lights
- ◆ 20 watt high intensity LED deck head lights

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150W LED Bay
Lights



70W LED Bay Lights



70W LED Long
Range Flood Light



40W LED Deck
Head Light



20W LED Deck
Head Light

Haul Road Lighting

For Haul Road Lighting meeting with DGMS requirements the main consideration is glare free illumination keeping in view the frequent shifting of haul roads. The minimum illumination specified by DGMS for haul roads is 10 lux. this helps Dumpers to move even without their headlights 'on'.

At Metal mines most of the Haul Roads pass through the ditches of the hilly terrain. During fog prevalent in these areas Dumper operators find it extremely difficult to negotiate the haul roads. These not only strain and fatigue the Dumper operators but also cause frequent accidents.

◆ Problem identification

Functional requirements for illumination of Material / Coal Handling plants are such that the luminaries should be dust, vermin & moisture proof. These should also be vibration proof to withstand vibrations incidental to working of the plant.

◆ Our Recommendations

Sigma luminaries can economically meet with all such requirements since they produce much better illumination. These lights are provided with louvers for glare free illumination on haul roads. These luminaries when fitted on Sigma towers (telescopic tilting type, tilting type or High Mast type) placed at strategic locations and aimed judiciously, produce glare free illumination for unhindered movement of Dumpers.

For metal mines where fog is a problem Sigma recommends that one beam light of very high intensity should be installed on each pole and aim the beam at the center of the Haul road. These lights should be in addition to the general illumination strategies followed. These lights should be switched on only at the time of fog and should act as path finder.

A red coloured flashing light should be installed on each pole which are installed close to the edge of the road ditches as marker light and aimed in such a way that the Dumper operator can identify his limit and avoid accident with non-strenuous movement.

◆ We recommend the following Sigma lights

- ◆ 350 watt long range high intensity LED Light with louveres for fitment on towers with a minimum height of 18 meters.

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- ◆ 250 watt long range high intensity LED light with louvers for fitment on towers with a minimum height of 12 meters.
- ◆ 150 watt LED beam lights for fitment on side poles at metal mines.
- ◆ Flashing lights made from LED with stainless steel reflector and a flasher.
- ◆ 120 watt LED street lights with wide spread for fitment on poles like at permanent haul roads.



350W Long Range
LED Flood Lights



250W Long Range
LED Flood Lights



150W Long Range
LED Flood Lights



120W LED Street
Light



80W LED Street
Light



60W LED Street
Light



LED Flashing Lights

Workshop Lighting

◆ Problem identification

It is essential that shadow free lighting is ensured both inside and outside the workshops

◆ Our Recommendations

Our high intensity long range lights having lasting performance when fitted on our high mast towers are used for illuminating outside the workshops.

For inside the workshops high intensity LED high-bay lights with uniform wide spread are recommended.

High intensity highway lights with especially designed vibration isolators are used on overhead cranes.

24 volt 20 watt high intensity LED lights for use as emergency lights.

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◆ **We recommend the following Sigma luminaries.**

- 350 watt high intensity long range LED flood lights for open area outside workshops.
- 250 watt high intensity long range LED flood lights for open area outside workshops.
- 150 watt high intensity long range LED flood lights for open area outside workshops.
- 600 watt high intensity LED high-bay lights with uniform spread for inside the workshops.
- 400 watt high intensity LED high-bay lights with uniform spread for inside the workshops.
- 250 watt high intensity LED high-bay lights with uniform spread for inside the workshops.
- 150 watt high intensity long range flood lights for columns of workshops with a facility for operation from ground level.

For Overhead Cranes

- 150 watt high intensity LED light with especially designed vibration isolators for Overhead Cranes.

Emergency lighting System

- 24 volt high intensity 20 watt LED light for use as emergency system.
- 24 volt high intensity 40 watt LED light for use as emergency system.



350W LED Long Range Flood Lights



250W LED Long Range Flood Lights



150W LED Long Range Flood Lights



600W LED Highbay Lights



400W LED Highbay Lights



250W LED Highbay Lights



150W LED Long Range Flood Lights



40W LED Deck Head Light

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20W LED Deck
Head Light



24V 20W LED Light



24V 40W LED Light



150W LED Security
Search Lights

Sub Station Lighting

◆ Problem identification

While illuminating Sub Stations it is essential that in addition to general requirements for illumination shadow free lighting is ensured.

◆ Our Recommendations

We have high intensity long range LED lights with proven lasting performance have proved economical & useful for Sub Station Lighting. We have Lighting Mast Towers of suitable heights for fitment of these lights.

◆ We recommend the following Sigma luminaries.

600 watt long range high intensity LED flood lights

350 watt long range high intensity LED flood lights

150 watt high intensity LED flood lights for patch Lighting

70 watt high intensity LED flood lights for patch Lighting

20 / 40 watt high intensity LED cabin lights for panel booms



600W LED Long Range
Flood Lights



350W LED Long Range
Flood Lights



150W LED Long Range
Flood Lights



70W LED Long Range
Flood Lights

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20 / 40W LED Cabin
Lights



Remote Area Lighting
System



Remote Area Lighting
System



7 Meter Mobile Lighting
Tower

Maintenance light

◆ Problem identification

The basic requirement of maintenance lights is that these should be low voltage to avoid shock and electrocution. Also it would be preferred if lights are fitted on a potable stand / trolley or have a magnetic base that can be easily attached to a metallic place and focus the light on to the job.

◆ Our Recommendations

◆ We recommend the following Sigma lights

20 watt portable hand held LED lights

40 watt portable hand held LED lights.

2x20 watt portable LED lights fitted on a stand.

2x20 watt portable LED lights fitted on a stand having rechargeable Li-ion batteries fixed at the base.



20W Portable Hand
Held LED Lights



40W Portable Hand
Held LED Lights



2 x 20W Portable LED
Lights



.....



Remote Area Lighting
System



Remote Area Lighting
System

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Street Lighting

◆ Problem identification

The street lights are faced with a problem that light from lamps do not get reflected out fully and dust and insects entering inside the fittings make them redundant. By introducing pot optics for street lights the manufacturers have made a good effort to have better light output but high heat of the lamps wear out the shine from the reflectors greatly affecting their efficiency.

◆ Our Recommendations

Sigma have developed high intensity LED street lights with wide spread sustained lasting performance. Sigma ensures that dust moisture and insects do not enter the fitting.

We offer the following LED street lights for application at different areas in the mines/projects.

60 watt high intensity street light with wide spread.

80 watt high intensity street lights with wide spread.

120 watt high intensity street lights with wide spread.

30 watt solar powered street lights



60W LED Solar Street Lights



30W LED Solar Street Lights



20W LED Solar Street Lights



60W LED Street Lights



80W LED Street Lights



120W LED Street Lights

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Security Search lights

◆ Problems identification.

Normal human eye can clearly see targets upto 500 meters in day light. It is therefore desirable that intensity of Security Search lights should be such that are security person should be in addition position to see targets at a distance of 400 meters with the naked eye or 700 meters with binoculars.

Next comes the problem of insects invading the watch towers as soon as Search lights are switched on.

Where the size of the watch tower cabin is more than 2 meters the security person finds it difficult to aim the search light close to the base of the watch tower.

Another important requirement that is gaining ground is the security persons should operate from a watch tower kept in the dark while the Search lights are fitted on a distant tower and operate the Search light with a remote control from the watch tower kept in the dark.

Security person feels handicapped when the Search light is fitted inside the watch tower because when the search lights is switched 'ON' the whole cabin gets lighted due to which the outside visibility of the security guard is impaired. It is similar to the experience with the cabin light of a Car which have to be switched off while driving the car at night.

◆ Our Recommendations

We at Sigma have clearly understood these functional problems and designed and developed Search lights that meet these requirements. We basically have 6 type of Search Lighting systems.

1. That can be fitted on top of the watch tower and operated from inside the cabin of the Tower so that security man is protected from invading insects.
2. That a distance piece is provided with the search light fitted on the top of the watch tower for enabling the security person to aim close to the watch tower and also to protect him from invading insects while operating the search light from inside the cabin of the watch tower.
3. That can be fitted inside the watch tower where it is difficult to install or maintain the search light on the roof of the watch tower mainly due to its shape. A movable stand with Castrol wheels is provided to enable the search lights to be towed to close to the windows of the cabin to have better view of the outside thus overcoming the problem of impaired visibility.
4. That can be fitted on nearby lights tower and operated from inside the cabin of the watch tower with remote control. This is to protect the security man from being the soft target of militants.
5. Motor operated search lights that can be fitted on top of the watch towers and operated from inside the cabin of watch tower.

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6. That can be hand held with inbuilt batteries or vehicle mounted that can be operated from the batteries of the vehicle. These are of great help while chasing a culprit because one can focus the light on him even when he goes out of the range of the jeep headlights.

The LED search lights operable from 240 Volt AC or 110 Volt DC or 24 Volt DC are available.

600 watt high intensity long range search light.

350 watt high intensity long range search light.

250 watt high intensity long range search light.

150 watt high intensity long range search light.



600W LED Search Lights with Tripod Stand



350W LED Search Lights with Tripod Stand



250W LED Search Lights with Tripod Stand



150W LED Search Lights with Tripod Stand



150 - 600W LED Search Lights with Cabin Control Arrangement



150 - 600W LED Motorised Search Lights



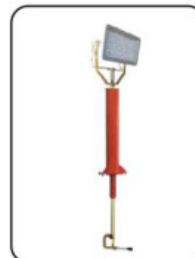
150 - 600W LED Motorised Search Lights



150 - 600W LED Search Lights with Cabin Control Arrangement



150 - 600W LED Search Lights with Tripod Stand



150 - 600W LED Search Lights with Distance Piece

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Facial illumination of building

◆ Problem identification

For facial illumination the lights should uniformly illuminate the building from bottom to top.

◆ Our Recommendations

We recommend our high intensity LED lights with long range and wide spread.

600 watt high intensity LED light having a combination of long range and wide spread

350 watt high intensity LED light having a combination of long range and wide spread.

350 watt high intensity LED light having a combination of long range and wide spread.

350 watt high intensity LED light having a combination of long range and wide spread

250 watt high intensity LED light having a combination of long range and wide spread

150 watt high intensity LED light having combination of long range and wide spread.



600W LED Long
Range & Wide Spread
Flood Lights



350W LED Long
Range & Wide Spread
Flood Lights



250W LED Long Range
& Wide Spread Flood
Lights



150W LED Long Range
& Wide Spread Flood
Lights

Name boards & safety slogans illumination

◆ Problem identification

For effective illumination of name boards and safety slogans low wattage Lights with wide spread are required.

◆ Our Recommendations

The following Sigma lights fully meet these requirements

40 watt high intensity LED light having wide spread.

30 watt high intensity LED light having wide spread.

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40W LED wide spread
Flood Lights



20W LED wide spread Flood
Lights

Fire & Disaster control services

At the time of fire or disaster the normal power supply is switched off and as such lights have to work from alternate source as such the lights should be long range high intensity type producing yellow colored light.

Hand held powerful beam light operating from 12/24 volt should produce yellow light.

◆ Our Recommendations

Apart from lights meeting the above requirements Sigma have installed their range mobile trolley mounted Lighting Mast Towers and remote area lighting systems for fire and disaster control services

Trolley Mounted telescopic tilting type lighting mast towers complete with generating set, 240/24 Volt transformers, 24Volt lithium phosphate batteries, long range high intensity flood lights and 24 Volt flood lights and search lights etc.

350 watt long range high intensity water proof flood light

250 watt long range high intensity water proof flood light

24 volt 20 watt high intensity flood light.

24 volt 40 watt high intensity flood light.

12 volt 20 watt hand held beam light with yellow coloured complete with inbuilt batteries.

Interior Lighting.

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350W LED long range
Flood Lights



250W LED Long Range
Flood Lights



24V 40W LED Flood
Lights



24V 20W LED Flood
Lights



12V 20W LED hand held
Lights



Remote Area Lighting
System



Remote Area Lighting
System

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