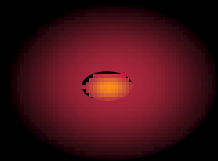
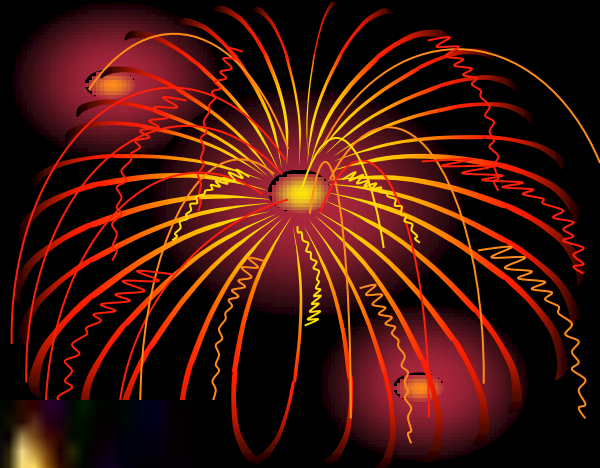


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**6TH NATIONAL SEMINAR ON
OCCUPATIONAL HEALTH SAFETY AND
ENVIRONMENT**

22-23 August, 2008

**OCCUPATIONAL HEALTH,
SAFETY AND ENVIRONMENTAL
(HSE) CONCERNS OF THAR
COAL EXPLOITATION AND
POWER GENERATION**

**ENGR. MOHAMMAD ABDULLAH FAROOQUI
HSE CONSULTANT**

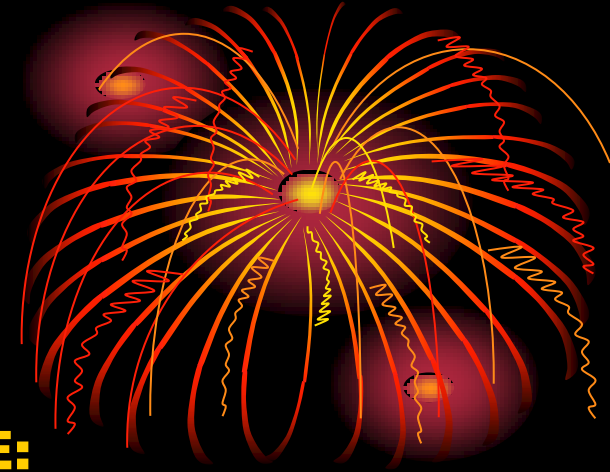


INTRODUCTION

- **THAR COAL EXPLOITATION AND POWER GENERATION ENTAILS MANY HSE CONCERNS**
- **OCCUPATIONAL HEALTH AND SAFETY RELATES TO IDENTIFICATION AND CONTROL OF POTENTIAL DAMAGES TO HUMANS AS WELL EQUIPMENT.**
- **ENVIRONMENTAL ASPECTS COVER EFFECT ON SOIL, WATER, AIR, HABITAT, ETC**
- **PRESENT DAY TECHNOLOGY AND SOCIAL RESPONSIBILITY AWARENESS CALLS FOR EFFECTIVE MEASURES FOR PREVENTION AND CONTROL**
- **COSTS INVOLVED ARE JUSTIFIED AND MAY GIVE SUBSTANTIAL RETURNS.**



HSE CONCERS



- **PRESERVATION OF CULTURAL HERITAGE:**

- RELIGIOUS AND ARCHAEOLOGICAL SITES, GRAVE YARDS, FOSSILS, ETC

- **MINIMAL HABITAT DISTURBANCE:**

- HUMAN POPULATION, ANIMALS, PLANTS, SOCIAL DEVELOPMENT PROGRAMME; SCHOOLS, HOSPITALS, SNAKE-BITE ANTI-VENOM

- **EMPLOYEES HOUSING**

- TWO SEPARATE SCHEMES I.E. HIRE/PURCHASE & RENTAL

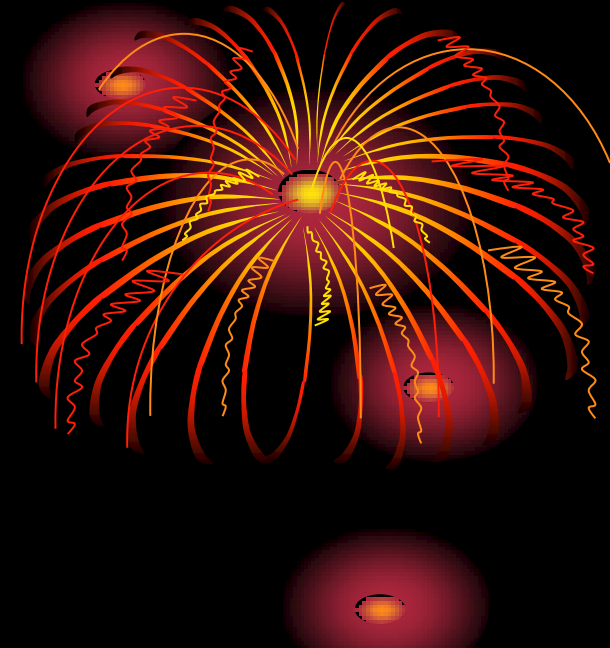
- **WEATHER EFFECT:**

- HEATSTROKE, SHADES, DRINKING WATER WITH SALT TABLETS

- **DUST EXPOSURE:**

- SAND, FINE COAL; AVOID UN-NECESSARY EXPOSURE, USE DUSTMASK

HSE CONCERS



- **DRIVING HAZARDS:**

- PROMOTE DEFENSIVE DRIVING CULTURE

- **NOISE POLLUTION:**

- HEAVY EARTH MOVING MACHINERY, TRANSPORT, POWER TURBINES;
- USE QUIET TYPE MACHINES, EAR MUFFS, ETC.

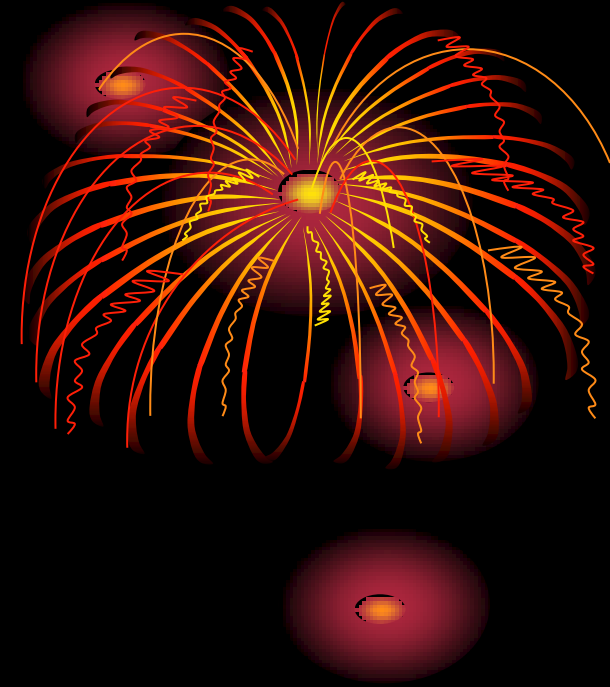
- **FIRE, SPONTANEOUS IGNITION, EXPLOSION:**

- STORED COAL, COAL DUST, GASEOUS MIXTURE;
- USE STANDARD OPERATING PROCEDURES, FIRE-FIGHTING EQUIPMENT & PROCEDURE, FIRST-AID AND RESCUE ARRANGEMENT

- **FLUE GASES:**

- NO_x, SO₂, H₂S; INHALATION BY HUMANS, ACID RAIN EFFECT, ETC
- DILUTION THROUGH HIGH RISE CHIMENYS, WELL DESIGNED GAS TURBINES GENERATE LOW NO_x
- SULPHUR RECOVERY PLANT GIVING BY-PRODUCTS

HSE CONCERS



- **WASTE DISPOSAL:**

- SALINE WATER, ASH, FINE COAL, ETC

- **LEACHATE:**

- MONITOR EFFECTS TO SURFACE AND U.G. WATER AND AVOID LEACHATE

- **MANPOWER TRAINING AND DEVELOPMENT:**

- HIRING POLICY, PRE-START UP CRAFT TRAINING, ON-THE-JOB TRAINING/JOB PROGRESSION TRAINING WITH BUILT-IN HSE

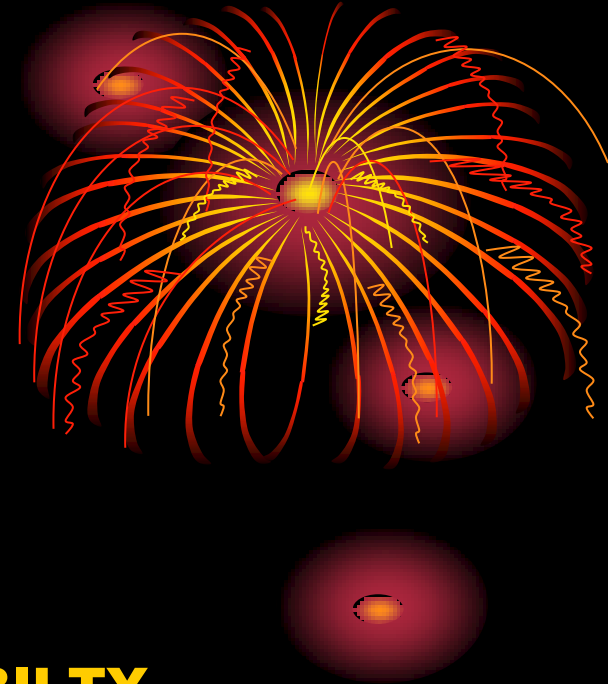
- **GOVERNMENT AND PUBLIC RELATIONS:**

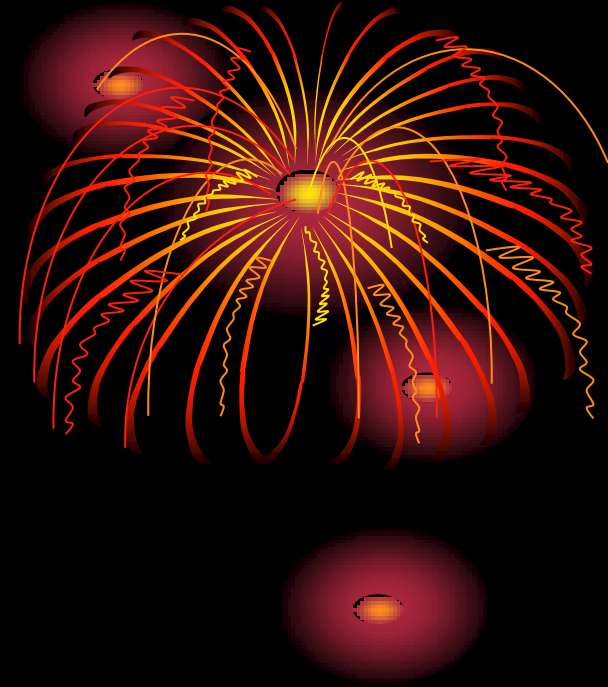
- GOOD LIAISON WITH GOVERNMENT INSPECTORATES

- PUBLICITY OF HSE THROUGH FAMILIES, MEDIA AND CONTRACTORS

CONCLUSION

- **HSE IS GOOD BUSINESS**
- **IS CORPORATE SOCIAL RESPONSIBILITY**
- **IS LEGAL REQUIREMENT / AVOID LITIGATION**





THANK YOU