



CHAS COLLEGE, CHAS

(A Constituent Unit of Binod Bihari Mahto Koylanchal University, Dhanbad)

NAAC ACCREDITED GRADE "B"

P. O. - Kura, Chas, Dist. - Bokaro, (Jharkhand), 827013

Ref:.....

Date: 22/01/2022

DISTINCTIVENESS

Academic Year 2020-21

Performance of the Institution in one area distinctive to its Vision, Priority and Thrust

An Initiative to Make Eco-friendly Campus by Use of Solar Energy

India is facing a huge energy demand as this country has a rapidly growing economy for its more than 1 billion people. Energy is essential for different activities of life for which India is largely dependent on electrical energy which is generated by burning fossil fuel. The power produced in the country is mostly from coal (53%) and it is predicted that country's coal reserves won't last beyond 2040-50. Generation of electricity through this method pollutes our environment which threatens life of living organisms including humans. Therefore, the time has come to shift to the use of green energies of which one of the most suitable energy for this region is the solar energy.

India has tremendous scope of generating solar energy. The geographical location of the country stands to its benefit for generating solar energy. States like Andhra Pradesh, Bihar, Jharkhand, Gujarat, Haryana, Madhya Pradesh, Maharashtra, Orissa, Punjab, Rajasthan and West Bengal have great potential for tapping solar energy.

India has pledged to curb Carbon emissions and to take control measures necessary to ensure that the global temperature rise due to pollution stays below the threshold of 2 degrees Celsius under the historic **Paris Agreement**. About 35% of the global greenhouse gas emissions are directly or indirectly caused by electricity and heat generation. Therefore, India has focused on use of renewable energy generation mainly on the solar energy and wind energy.

Keeping in view our responsibility towards society and the nation in mitigating the problem of pollution and a small initiative to support the commitment of our country to the Paris agreement; Chas College Chas has adopted the use of solar energy for which we have established 10 KVA roof top solar power generation system during the year 2019-20. Solar plates are placed on the Arts block building of the college. This region is prone to the threat of lightening and electrical surge due to different reasons for which we have developed system for surge and lightening protection. Almost fifty



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percent of the electrical requirements of the college are met by the electricity generated by solar power. Since the establishment of the solar power system in the college, we are much relieved from the menace of frequent power cuts. Frequent power cuts previously had hampered different activities of the college.

The college has planned to established second solar power system on the science building in near future. With establishment of the second solar power system; the college will run fully on the Green electricity produced from the solar power system. It is one of the initiatives of the college to achieve green campus status.

Name of the Institution: Chas College Chas, Bokaro

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Year: 2020-21


Principal 22/01/22

Principal
Chas Collage Chas
(Bokaro)