MOTHER TERESA
INSTITUTE OF SCIENCE AND TECHNOLOGY
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ACCREDITED BY NAAC
B - GRADE

DEPARTMENT OF CIVIL ENGINEERING

ACADEMIC YEAR: 2021-22

A SUMMARY REPORT

Course Name: AIR POLLUTION

Name of the Resource Person: Mr. CH.SRIDHAR, Assistant Executive Engineer, RWS Dept, Sub Division, Sathupally

Gap Identified: Air pollution effects on civil engineering construction

No. of Students attended: 45 members

Summary: On the day of the session (i.e 21-03-2022) Mr. CH.SRIDHAR, Assistant Executive Engineer, RWS Dept, Sub Division, Sathupally. Delivered a lecture on the basics of Introduction to the course of The damage due to air pollution on materials is really a serious concern since the service life of buildings is remarkably reduced. It is true that the intensity of manmade pollutants on building degradation is more than the impact of natural pollutants. Most importantly the affects of soiling, degradation, corrosion and erosion caused by So_2 are very much serious.

The effect of air pollution on materials may be seen in terms of discoloration, material loss, structural failing and soiling. Both discoloration and structural failure due to air pollution on buildings may be insignificant and that may not involve huge coasts. But the effect of corrosion due to acidic deposition costs a lot. Especially the effect of sulphur dioxide and nitrogen dioxide emissions is very much significant. The effect of calcium sulphate has been very significant and may be continued for fairly long time. When calcium carbonate dissolves in sulphuric acid leads to the formation of calcium sulphate. The calcium sulphate when it falls on stone breaks the surface of the building blocks.