



COALASH INSTITUTE OF INDIA

A Society Incorporated (Regd No. S/78004)

Mailing Address :

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Report of the Hony. Secretary of COAL ASH INSTITUTE OF INDIA regarding 24th. Annual General Meeting to be held at B E College Ex-Students Club, CK-14, Salt Lake, Sector – 2, Kolkata - 700091 on 4th. December, 2021.

It is a pleasure on my part to place the Annual Report before the august assembly of members.

As you all are aware, the first quarter of year 2021 has been a challenge for the entire country and its people with the on-slaught of severe 2nd. wave of the Covid-19 pandemic, which resulted in great loss of human life and also derailed all commercial activities. Due to lockdown and temporary dislocation of business in wake of said 2nd. wave, most of the philanthropic activities of our Institute stood affected as well.

The report provides a glimpse of the brief activities that could be successfully concluded by our Institute during this period of restriction and uncertainty :-

- a) **Contract Research Project** – Pursuant to the successful demonstration of trial patch in March, 2020 at Dhariwal Infrastructure Limited, MIDC- Tadali, Dist : Chandrapur, Maharashtra, our Institute received a repeat assignment from them in mid-March 2021 for taking up construction of Phase – II of their bottom ash – concrete road using DIL bottom ash as partial replacement of sand, which was duly completed by our Institute's Technical Team comprising Mr. Gautam Dasgupta, Mr. Surajit Basu and undersigned.

To confirm the quality and assess health of the M-35 grade bottom ash – concrete road constructed at DIL in March, 2020 under supervision of our Institute's Technical Team abovenamed on real-time basis after an year's use by heavy vehicles of 45 Metric Tonnes plying over it and compare it with the adjacent M-40 grade regular concrete road, Dhariwal Infrastructure Limited appointed M/s. Geotech Services Pvt. Limited, Nagpur on April, 2021 to undertake Non-Destructive Tests comprising Rebound Hammer Test and Ultra Pulse Velocity (UPV) Test alongwith Core Extraction, the photos and findings on which are provided hereunder :-



LOCATION	TEST PERFORMED	GRADE OF CONCRETE
<i>C. C Road with Regular Concrete (Tested portion 25 m Stretch) located near CHP area</i>	NDT + Core Extraction	M 40
<i>C.C Road containing 50% Bottom Ash and 50% Natural sand (Tested Portion 18 m Stretch) located near CHP area</i>	NDT + Core Extraction	M 35

The table below shows the average results of rebound hammer test, which very well complies with the reported grades of concrete. However, the bottom ash – concrete road inspite of being of lower concrete grade showed higher strength than regular concrete road.

Sr	Structure	Location	Concrete Grade	The average strength. (based on R value)
1.	C. C Road with Regular Concrete (Tested portion 25 M Patch)	Road near CHP Area	M 40	49 MPa
2.	C.C Road containing 50% Bottom Ash and 50% Natural sand (Tested Portion 18 M patch)	Road near CHP Area	M 35	51 MPa

The results of Ultra Pulse Velocity (UPV) test confirms that quality of concrete in terms of homogeneity and uniformity in both cases are GOOD, but the average UP Velocity of bottom ash – concrete road is better than regular concrete road.

Sr	Structure	Location	Average UP Velocity in m/sec.	Concrete Quality based on UPV results
1.	C. C Road with Regular Concrete (Tested portion 25 M Patch)	Road near CHP Area	3918	GOOD
2.	C.C Road containing 50% Bottom Ash and 50% Natural sand (Tested Portion 18 M patch)	Road near CHP Area	4014	GOOD

Equivalent cube strength derived from core strength of bottom ash – concrete and regular concrete specimens are presented below :-

Sr No	STRUCTURE	LOCATION	Equivalent Cube Strength in MPa
1	C. C Road with Regular Concrete (Tested portion 25 m Stretch) located near CHP area	Panel A	46.42
2		Panel L	49.45
3	C.C Road containing 50% Bottom Ash and 50% Natural sand (Tested Portion 18 m Stretch) located near CHP area	Panel B	49.30
4		Panel G	54.58

In this case too, the strength readings for bottom ash – concrete road specimens superseded that of regular concrete road specimens.

- b) **Investments lying in the name of CAII and closing cash in hand** – An aggregate amount of Rs. 15,50,000/- (Rupees Fifteen Lakhs and Fifty Thousand only) being the



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face value of Fixed Deposit/s is lying with United Bank of India, High Court Branch, Kolkata 700001 in the name of our Society and the closing cash & bank balance (as on 31/03/2021) was Rs. 1,58,707.82 (Rupees One Lakh Fifty Eight Thousand Seven Hundred Seven and paise eighty two only).

- c) **Filling of Annual Return and Audited Accounts** – The statutory compliance of doing audit for F.Y. 2020-21 was completed within due time. Due to some technical glitches cropping up on the Income Tax e-filing system resulting in extension of deadline of filing Income Tax return till 31st. December, 2021, by the appropriate Authority, the same will also be completed by our designated Attorney within the deadline aforesaid.

In conclusion, I extend my whole hearted gratitude to the Governing Body members and also all other members of CAI for providing support during mentioned period for various works.

Debashish Bhattacharyya

DEBASHISH BHATTACHARYYA
SECRETARY