

COUNCIL FOR SCIENTIFIC AND INDUSTRIAL RESEARCH CSIR-BUILDING AND ROAD RESEARCH INSTITUTE GHANA

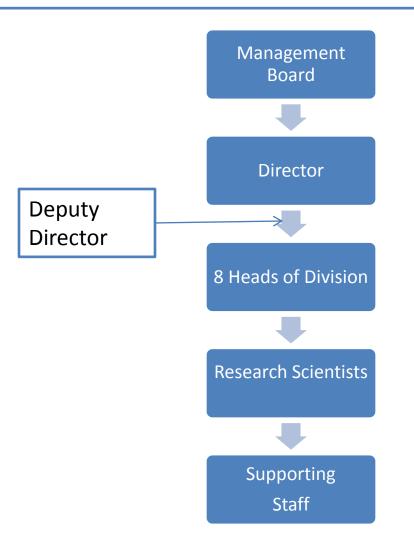
18th COMSATS COORDINATING COUNCIL MEETING COLOMBO, SRI LANKA

12 – 13 MAY 2015

13 INSTITUTES

- Animal Research Institute
- Building and Road Research Institute
- Crops Research Institute
- Food Research Institute
- Institute of Industrial Research
- Oil Palm Research Institute
- Plant Genetic Resources Research Institute
- Water Research Institute
- Soil Research Institute
- Forestry Research Institute of Ghana
- Savannah Agricultural Research Institute
- Institute of Scientific and Information research Science and Technology Research institute

INSTITUTES ORGANISATIONAL STRUCTURE



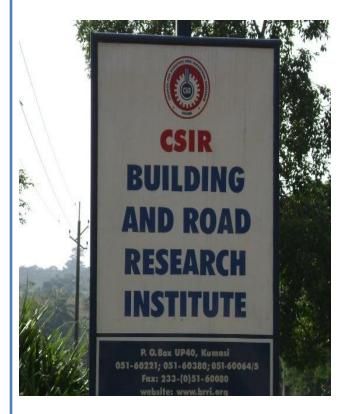
CSIR-BRRI VISION AND MISSION

VISION

A centre of excellence that offers a one stop service in research, training and technology transfer in the construction and transportation sectors.

MISSION STATEMENT

To promote the conduct of demand-driven and problem-based research, provide training and technology transfer that links effectively to the socio-economic development of Ghana particularly, the building, road and transport industry



OBJECTIVES

- To undertake research into all aspects of building and road planning, design, construction and maintenance
- To develop local construction materials for increased utilization in construction

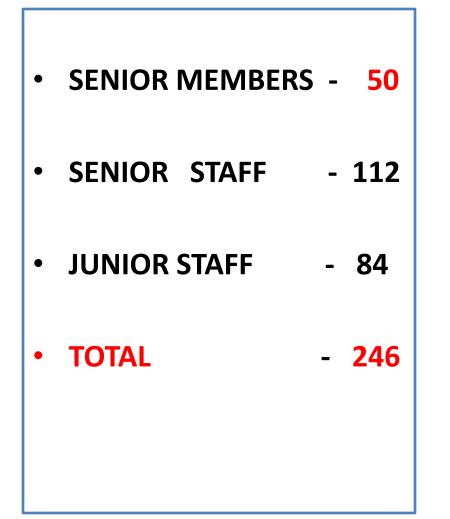


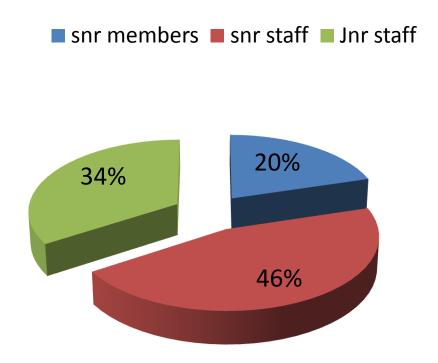


DIVISIONS

- Construction
- Geotechnical Engineering
- Materials Development
- Structures, Design and Planning
- Traffic and Transportation
- Commercialisation & Information
- Administration
- Finance

STAFF - CATEGORIES

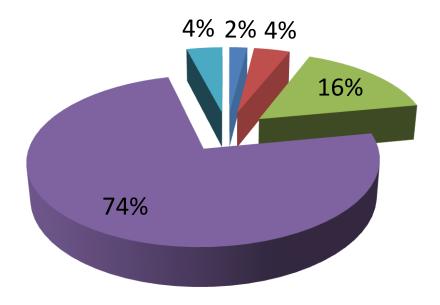




Senior Members Grade

Research Grade	No.
Chief Research	
Scientist	1
Principal	
Research	
Scientist	2
Senior Research	
Scientist	8
Research	
Scientist	37
Assistant	
Research	
Scientist	2
Total	50

- Chief Research scientist
- Principal Research scientist
- Senior Research scientist
- Research scientist
- Assistant Research scientist



Staff

Qualification	Νο	Under Training
PhD	8	6
MPhil/MSc	36	
MBA	6	
BSc	20	
HND	35	

NO	PARTICULARS	AMOUNT, \$
1	Compensation	492,117.89
2	Goods & Services	400,000.00
3	Research	550,000.00
4	Assets	300,000.00
	Grand Total, \$	1,742,117.89
		1132117.87

Research programmes

- Development of supplementary cementitious materials:
 - Dolomitic limestone, Granite dust, Steel slag cement
- Development of mosquito repellant paint
- Development of construction cost indices
- Construction Artisan productivity studies
- The prevalence of cell phone use while driving
- Assessment of pedestrian safety
- Development of geotechnical and geophysical database management system of Ghana
- Effects of design and construction defects on the maintenance of public housing
- Study of urban waste management systems

Research Publications

Туре	2014
Refereed Journal	20
Edited Conference Papers	15
Edited Research Paper	6
Monograph/Manual	7
Technical Reports	20
Total	68

COMMERCIALISATION ACTIVITIES



Commercialisation

- Production of Pozzolana and pozzolana cement
- Production of salt resistant burnt bricks





Ultra Modern Digital Soil Laboratory



New programmes

 Establishing a bitumen and Asphalt Technology Centre worth \$1.5m



Objective

 The main objective of the project is to set up a Bitumen and Asphalt Technology Centre (BATC) that will provide services in testing, performance review and analysis, utilisation, standard-setting of bitumen and asphalt for stakeholders in the

road construction



TRAINING

• National Artisan Training Centre set up to train

- Contractors
- Engineers
- Foremen
- Artisans
- Carpenters
- Steel benders





International cooperation

- DFID The Africa Community Access Partnership (AFCAP)
- Johns Hopkins/Bloomberg Road safety
- DANIDA Road safety
- TRL Transport research
- SBAS Satellite imagery in Africa



• Habitat for Humanity – Training in construction

Relationship with International Organisations

- WAITRO -
- WORLD BANK
- DANIDA
- EU
- COMSATS

Future plans

- Set up International Research Centre in Material Science
 - Construction materials
 - Plastics
 - paints
 - Green technologies
 - Potential partners are CIF, CSIR-South Africa and University of Manchester

Thank you