**17/ENG04/066**

**ELECT/ELECT**

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**SHORT TEST(Eng384)**

You have been invited by the current president of Nigeria, General Muhammadu Buhari to make an argument for the optimization of engineering resources in the country.  As an aspiring Engineer, briefly discuss your view on this and make viable recommendations that will facilitate timely completion of engineering projects within the allocated budget without jeopardizing economic and legal regulations of Nigeria.

 SOLUTION

Engineering resources required in a country are many in number and kind. And they must be optimised to ensure efficiency and to make sure that allocated funds are used appropriately and also so that they are not misappropriated.

One way of achieving this is proper budget allocation strategies. And also to ensure quality control checks of constructed and created production results.

Engineering resources in the country can also be optimized by having a transparent contractor-worker relationship. Contracts are awarded to engineering firms, for example the construction of an express way. Such contracts should have a human resources manager, an engineering supervisor, an economist.

Human resource managers look out for the input of labourers both skilled and unskilled and likewise should compared to their output.

The engineering supervisor should ensure that the job done by these workers meets all engineering requirements and specifications.

The economist in firms must work hand in hand with both the human resource manager and the supervisor as he controls their funding. He must correlate with the supervisor to know how the material chosen, the engineering approach taken and a few other factors affect the funding. Likewise he should seek to support human management as some or more workers may have troubles either individually or collectively.

All these things enable smooth flow of funds from the presidency to those carrying out the contract and also ensure proper execution of the project. This makes sure that the project’s intended value and standard will be upheld, that engineering works to not pose a threat to the general health and safety of the public and waste and inefficiency will be minimal.