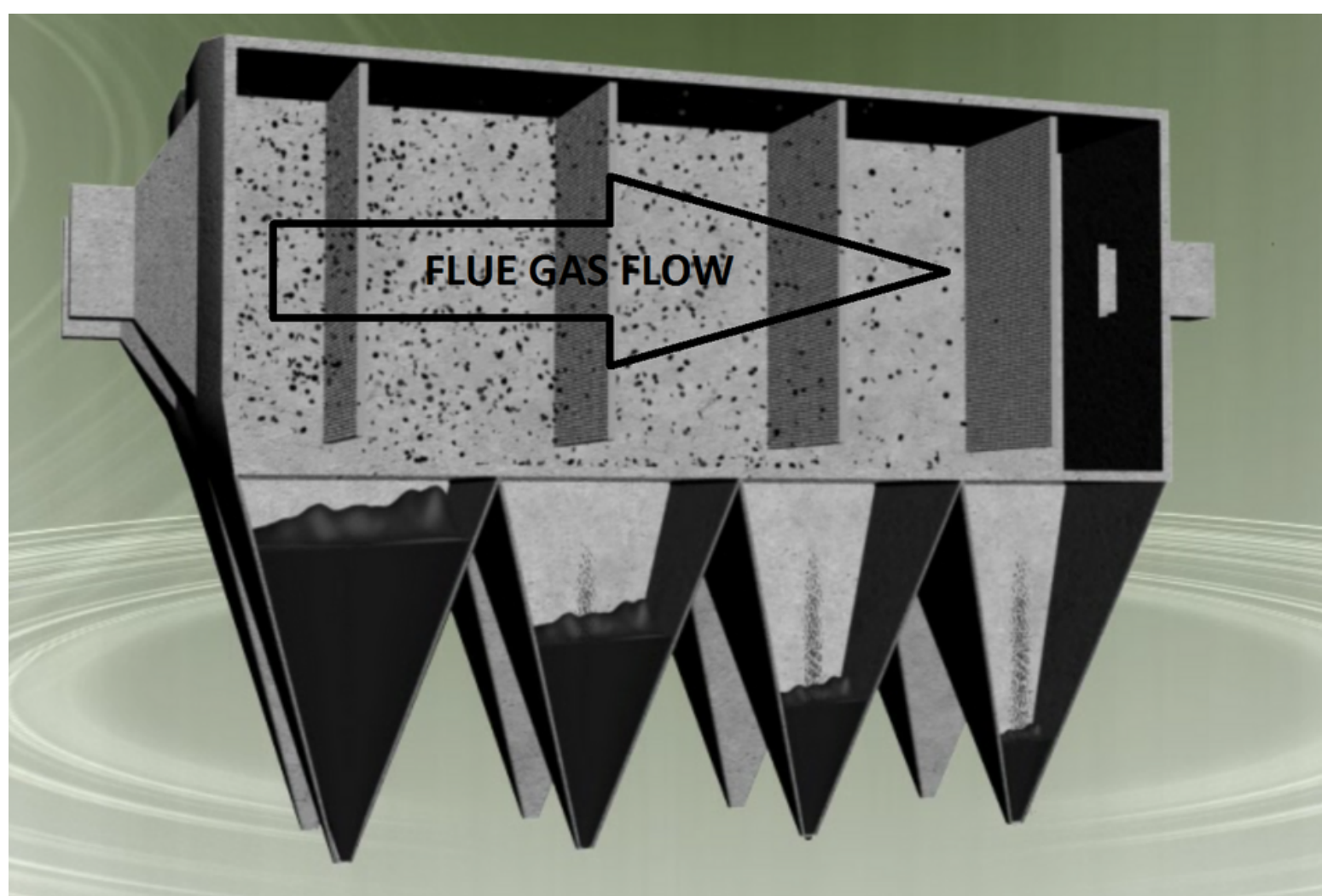


RELIABLE SOLUTION FOR ESP HOPPER LEVEL MEASUREMENT

"MAKING LEVEL MEASUREMENT MAINTAINENCE FREE"

INTRODUCTION

ESP Hopper Level Measurement has been a challenge for the power plants across the globe, mainly due to the blind nature of a hopper. Conventionally, the plant users have explored multiple options for measurement inside the hopper but the reliability still remains a grey area, provided the high temperature, abrasive environment, static charge and very harsh conditions. In addition, the first 2 fields of the ESP Fly Ash Hoppers have the maximum collection of Fly Ash and requires a reliable continuous level measurement for smooth operation in addition to a level switch. Further, the balance fields of ESP Fly Ash Hoppers require a reliable level switch which can be maintenance free with easy and in-frequent calibration



SOLUTION SIMPLIFIED

EXISTING ESP → **STEP - 1**

Install NOGS Sensor for the first 2 fields of ESP Fly Ash Hoppers.
Reference Plants - Sembcorp, KPCL Bellary, NTPC Mouda, NTPC Solapur, NTPC Dadri, GMR Angul amongst others

STEP - 2 ←

Install Digital LED RF Level Switch for the all ESP Fly Ash Hoppers. If EIP RF Level Switches are installed, then only the electronics need to be replaced.

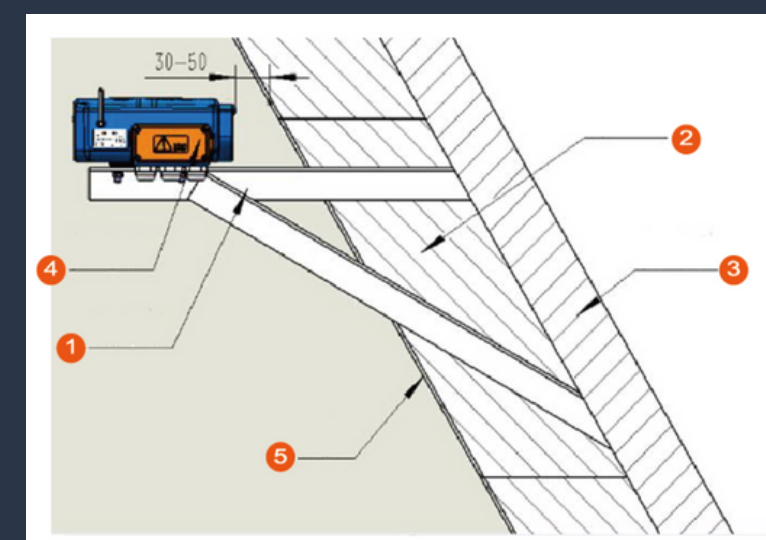
Reference Plants - NTPC Simhadhri, NTPC Khargone, Koradi, NTPC Lara, NTPC SolapurGVK, Ultratech amongst others.

"When it is so simple for an existing ESP, solving the challenge for a new ESP Hopper field becomes even simple. Just use NOGS and Digital LED RF"

For more details : send an email to rgoyal@eipenviroindia.com
or visit our website : www.eipenviroindia.com

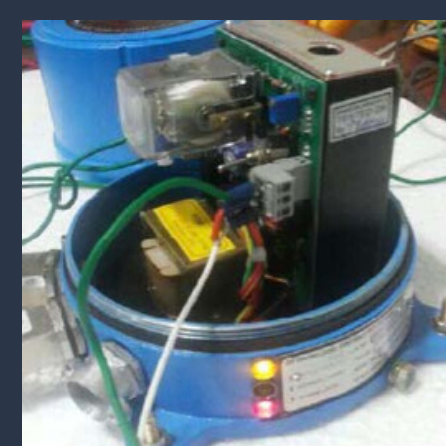
NOGS SENSOR

NOGS - Naturally Occurring Gamma Ray sensor is an innovative and proven solution in the Indian Industry providing a truly non contact continuous level measurement for Fly Ash inside an ESP Hopper and installed without cutting the hopper wall thus avoiding shut down for installation. The basic technology works by detecting the gamma ions present inside the Fly Ash which is directly proportion to the quantity of Fly Ash inside the hopper.

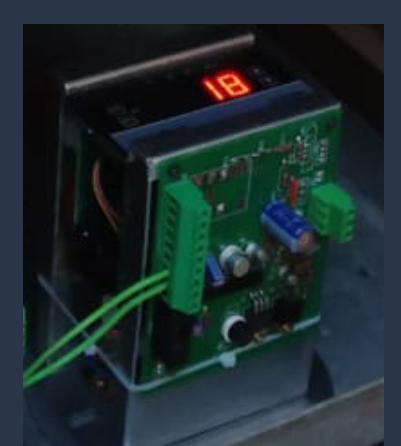


DIGITAL RF LEVEL SWITCH

EIP with its constant R&D has developed and modified the existing RF Level Switch (with frequent and blind calibration), making it more rugged with a Digital LED Display of Sensitivity. So the user can now calibrate based on a fixed value of the sensitivity, allowing for easy user diagnostics. Further, uniqueness lies in the fact that the electronics can be replaced inside an existing EIP Controller (refer below image for clarity)



Existing Electronics



Digital Electronics