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A Scientific Research on e-BG Process System for e-Governance initiatives: e-Procurement - A Great Economic Development for Nation

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e-Governance aims to provide good governance to the public by using the Information and Communication Technology (ICT) for speedy, accurate, transparent and secured services. e-Governance tries to eliminate the digital divide among urban and rural people. Timely and efficient delivery of e-Governance services is an important aspect.

Information and Communication Technology (ICT) is being increasingly used in day to day life of a common man and it is rapidly becoming an integral part of providing the better governance services to the citizens of a Country.

Now a days, departments, business sectors and customers alike collect, store and transmit vast amount of information electronically as they have started believing that their information is secure. The digital signature technique is essential for secure transaction over open networks. Hash functions are the most widespread among all cryptographic primitives and are currently used in multiple cryptographic schemes and security protocols.

Odisha is the one of the 29 states of India located in the eastern coast. Odisha which is the eleventh largest state of India in population, is working to provide better services to all the citizens in a transparent manner. Odisha is the first position among smart cities. The capital of Odisha, Bhubaneswar is the Number.1 smart city in the country.

We study from various Government of Odisha departments like Directorate of Technical Education and Training, Works, Water Resources, Rural Development, H & UD, SC & ST Development, Agriculture Dept, Panchayati Raj & DW etc, 33 State PSUs and 106 urban local bodies. Central Government departments like Dept. of Posts, CRPF and Central Government PSUs like NALCO, Paradip Port Trust etc.

This study focuses a humble effort towards nobel goal of developing the easy and secure way of details information of Tender Fee and e-BG (Electronic Bank Guarantee) for a particular Tender ID in the Database for the Country and provide the payment instruction for each concerned beneficiary details in their Bank, for the Nation Development.

In this research paper the study, design, process flow of e-BG is presented. The implementation of online tendering system is increasing day by day among different departments and PSUs for its superior level of security, transparency, strong authentication of Digital Signature Certificate and time stamping technique.

e-Procurement provides the healthy competition among bidders and real time bidding over the internet yielding cost saving to the public exchequer which reduces the tender related crimes is certainly a significant achievement on the way to a better and honest Nation’s Development.

To enhance the power of security and better implementation further research is in progress. This research study focuses on different opportunities of G2B initiatives in India. The basic objective of research is to provide a model for better implementation of e-Governance application.

Keywords: e-Governance, e-BG Process, Tendering System , e-Procurement, Digital Signature Certificate, Award of Contract, Information and Communication Technology,