

Incorporating Leadership to Enhance Digitalized Rural Development in Bangladesh: An Empirical Study

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Abstract

Comprehensive rural development in Bangladesh is a new approach that includes raising the productivity and real income including employment opportunities in farm and non-farm sectors, safety nets, institutional links to ensure smooth policy function, appropriate management technologies and organizational innovations to ensure access of the beneficiaries to inputs and resources in the era of public management. This study has attempted to explore prerequisite qualities of strong leadership in order to incorporate the level of citizen-centric smart governance system from the perspective of civil servants, community workers and local leaders focusing on the implementation of the comprehensive rural development attempts in Bangladesh. It is an exploratory and descriptive study conducting both in qualitative and quantitative manner. It has also endeavored to identify potential strong qualities of strong leaders for implementing smart governance in comprehensive rural development programs from the perception of selected Bangladesh Civil Service Cadre officers, community workers and local leaders. Rural development is always an important policy package of the Government of Bangladesh where public and social organizations are likely to step into the role of an effective promoter of network and smart governance in rural development for the fulfillment of basic needs of the rural beneficiaries. This is in line with the goals of basic need approach, however, at times problems of the disadvantaged groups have been addressed through ICT. Digital Bangladesh as a part of smart governance in this country involves reconsidering the whole rural development system crosswise in all levels of government from a voter perspective. It is projected that a pro-citizen leadership approach will empower the government to achieve crucial efficiency and expand service delivery levels in the rural area of Bangladesh.

Keywords: : Leadership, Rural Development, Smart Governance

1.0 Introduction

Identifying and exploring potential strong leadership qualities requires for implementing smart governance in comprehensive rural development programs in Bangladesh. Enhancing smart governance in rural development of Bangladesh is now a demand of time. Under the existing socioeconomic circumstances, it is a difficult task to efficiently manage development affairs. Rural development process is complex in nature. The frequency of factional conflicts centering on development issues is a

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pestering problem. The dominant groups led by influential leaders having strong support base within the locality endeavor to gain patronage resources to successfully counteract with the factional tendency of their rivals. The local leaders draw most patronage resources from the public and autonomous institutions that endeavor to ensure smooth flow of resources for rural development. Field administration and local bureaucracy are presumed to be the active agent of rural development. Comprehensive and participatory rural development projects prepared under bureaucratic supervision represent its conventional wisdom about economic development and growth at the micro-level. The alienation of the local bureaucracy from the peasantry hinders the development of administrative responsiveness to the felt needs of the beneficiaries. The communication gap between the peasantry and administration is a serious problem. Field offices remained less useful to the common people because of century-old paperbased office management system. Rural development attempts are time-consuming and labourintensive for both the service providers and the receivers. Moreover, it caused frequent delay and trouble because of the intermediaries. Consequently, abuse of public power and corruption occur frequently in Bangladesh (Hasanuzzaman, 2013). The poor performance of local public administration which is not functionally representative constitutes impediments to the implementation of rural prosperity programs. The beneficiaries, as such, are suffering from heart burning and frustration, quite unable to procure logistic support from the official staff working in extension and promotional agencies. Corruption and malpractice are entrenched in the system of service delivery and program managements. Extension agencies working in isolation from representative institutions have turned into wasteful ones with cumbersome official rituals and procedures. But they are quick at rendering useful services to the several intermediaries, brokers and touts who are eating into the vitals of the institutions. Smart governance is well recognized as a strategy of combating corruption, ensuring people's participation, transparent and citizen-centric administration etc. This system intends to provide better services at less cost. It is an effective method of ensuring good governance in the developing countries. Like other countries, smart governance can be a vital instrument in our country to materialize the vision of comprehensive rural development approach. Now the scholars and practitioners feel the urgency to identify the obstacles and way forward for enhancing smart governance in comprehensive rural development of Bangladesh.

2.0 Theoretical Framework

2.1 From E-Governance to Smart Governance in Rural Development

Smart governance can circulate information with electronic means regarding rural development process (Bertot, Jaeger and Grimes, 2010). Dawes, Vidiysova and Parkhimovich (2016) emphasized on better communication between government

and people in this regard. Elkadi (2013) explains that administrative processes have to be reinvented to provide better rural development service digitally. Electronic signatures are necessary to enable legal transfer of rural development services by digital means in both personalized and customized way (Mirchandani, Johnson and Joshi, 2008).

It is also important to integrate information systems properly to get service from a single computer-generated center. This single cybernetic center can become the prime contact point for all rural development programs (Ovais Ahmad, Markkula and Oivo, 2013). Available literatures emphasized that civil servants have to work together in a smooth and unified way to make the rural development effective in Bangladesh. In this era of smart governance, the public agencies use information technology to support administrative actions, involve citizens and provide rural development services efficiently (Sivarajah, Irani and Weerakkody, 2015).

Interactions among different actors may be in the system of obtaining information, making payments, online services etc. (Ranerup, Henriksen and Hedman, 2016). To promote greater participation of citizens in the rural development process, political institutions play the major role within the framework of smart governance. Government, citizens, business organizations, interest groups etc. are the main actors in using smart governance in rural development (Serra, Carvalho, Ferreira, Silva Vaz and Freire, 2015). Sarrayrih and Sriram (2015) argue that using smart governance in rural development can be described as a product of New Public Management (NPM) reform approaches. Rural development with pre-set and well defined programs for vital sectors may ensure efficient implementation. Net achievement in terms of interest gratification and sustainability depends inter alia on optimal utilization of available resources and social mobilization at the community level (Ahmad, Markkula and Oivo, 2013).

Some scholars argue that development of the rural sector has received special consideration of the policy communities now-a-days. Normative policy behavior at the institutional level favors adoption of policies of rural development with core programme components. This is to bring smart governance to a desired state in the shape of planning at the grassroots for promoting rural development (Goel, Dwivedi and Sherry, 2012). In recent years normative policy behavior seems to prioritize participatory and comprehensive rural development.

Scholars argue that to foster a favorable climate for socioeconomic development in rural areas participatory values have been given top priority. Ionescu (2013) discusses that introducing such changes may threaten the work of traditional

bureaucratic institutions that enforce the democratic values. Smart governance allows citizens to exercise self-governance. Citizens as the customers are the ultimate recipients of public services (Bannister and Connolly, 2015). Indeed, the citizens simply need to be assured that they are receiving the same services delivered to other citizens or recipients. It involves the growth of community support.

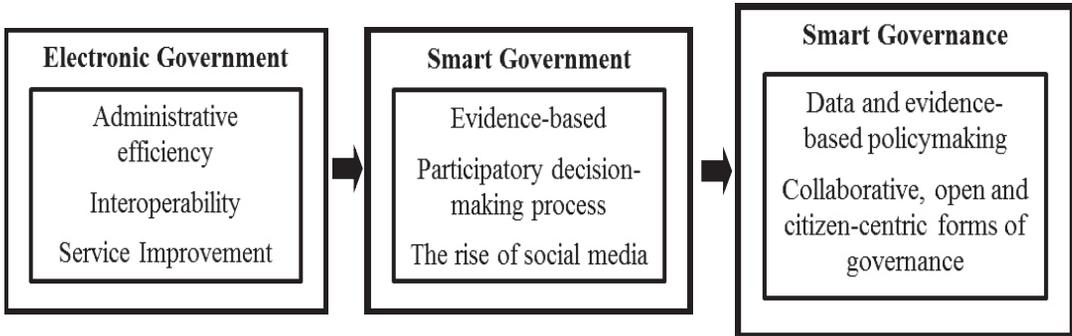


Figure 1: Form Electronic Government to Smart Governance. Source: Mellouli, Luna-Reyes & Zhang (2014)

2.2 Rural Development in Bangladesh

The experiences with policy exercise in rural development sector have been accumulated in a series of major programs like Integrated Rural Development, Community Development, Swanirvar Movement, Ulashi Baddanathpur Program, Rangunia Project, Total Village Development, SFLDP, Food Assisted Programs, Comprehensive Rural Development and Poverty alleviation programs like RD-2, RD-5, RD-9, RD-12 etc.

Comilla model consisting of interdependent and mutually reinforcing programs continues to guide policy direction in the realm of rural development (Hossain, 2004). The model set the tone of any future course of action institutionalizing the process of rural development. The program components contained in this replicable model are relevant to the contemporary policy issues like rural urban migration, participatory rural development, and empowerment of disadvantaged group, micro credit, gender discrimination, participatory marketing system, sustainable rural development and local governance. Yet, issues that afflict the rural people and worry the policy makers are differentiation and polarization (Mandal, 2000). According to Shahabuddin (2000), Comilla model constitutes a significant development in the art of institution building.

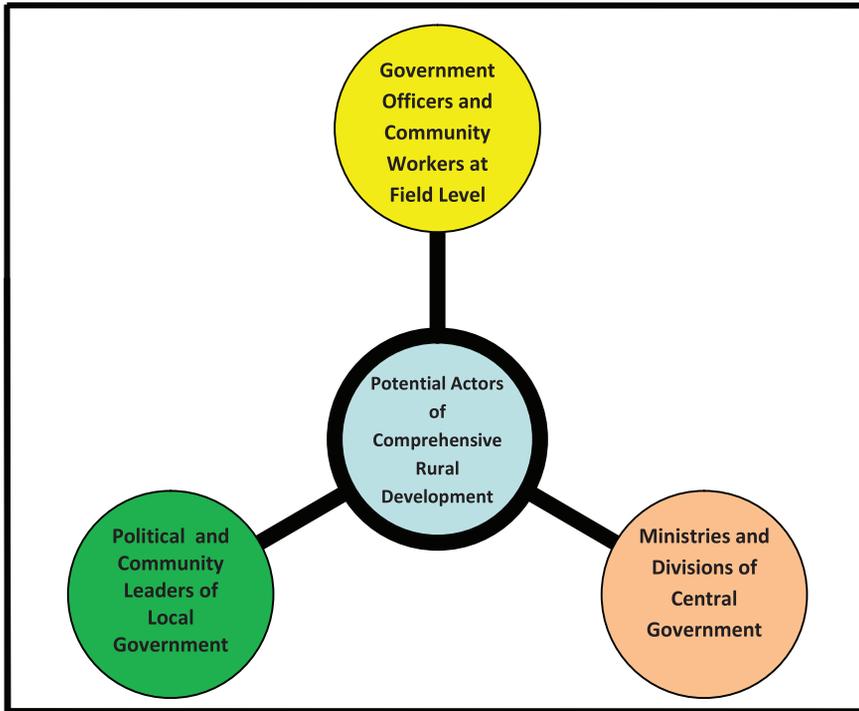


Figure 2: Potential Actors of Comprehensive Rural Development. Source: Bonsón, Torres Royo and Flores, (2012).

The institutionally nourished Comilla model and its integration formula as found in the establishment of Bangladesh Rural Development Board (BRDB) proffered the much required platform for combining the faculties and practices of institution building synthesizing it into public policy on rural development. Bangladesh Academy for Rural Development (BARD) has worked its way through ceaseless effects to combine democratic and economic rural institutions to the environment that has been changed in a positive direction. Effective implementation of smart governance in rural development depends on a three-way partnership of government, private sector and broader community (Bonsón, Torres Royo and Flores, 2012).

Community outreach must be entrenched with the process from the outset (Janssen and van den Hoven, 2015). Joseph (2014) explains that the experiences with policy intervention thus have been accumulated in a series of development plans and programmatic measures. The basic thrust in rural development is on grassroots institution capable of providing adequate and timely support and services to a large number of poor farmers and small rural inhabitants/entrepreneurs (Bhuiyan, 2010). The institutions involved in operational and implementation aspect, of rural development policies are available in plenty.

Ministry of Local Government and Rural Development (LGRD) happens to be the key note of institutional intervention providing overall policy guidance and 'advisory assistance' to the institutions responsible for administration of the rural development programs (Bwalya and Healy, 2010). Linked to the development approach, smart governance is involved in wide range of activities. Gonzalez-Zapata and Heeks (2015) argue that use of ICT in rural development will definitely increase the level of trust and mutual belief.

2.3 Digitalized Public Service Delivery

Skimming through the voluminous number of studies in this field, it can be claimed that the benefits of smart governance are substantial for both government and citizens (Janssen and van den Hoven, 2015). The payoffs for government include reducing costs, reaching to a larger portion, faster response, improving organizational image through branding and many more (Gajendra, Xi and Wang, 2012). Yildiz and Saylam (2013) illuminate that digitalized public service delivery has necessarily changed the whole process from a paper-based mode to an internet-based more efficient and continuous mode. This process has reduced costs by about 87% compared to traditional methods (Navarra and Cornford, 2012).

Rorissa and Demissie (2010) argue that cost-effectiveness and economy can be achieved as it costs less to publish available services on the public agencies' website than any other media. Thus the mounting evidences of digitalized public service delivery benefits have lured many governments across the globe (Guha and Chakrabarti, 2014). The transformation of paper-based to web-based process has been observed in North America, Europe, Asia-Pacific organizations with a revolution. Despite its substantial benefits, relevant literatures also highlight some challenges that include discrimination towards particular groups, threat to privacy, huge number of demands, inequality of access, absence of personal touch and so on (Kim, Kim and Lee, 2009).

2.4 Digital Leadership

Digital leadership is the strategic use of an organization's digital assets to achieve organizational goals. This can be dealt with both organizationally and at an individual level. Looking at it from an individual level, this is often carried out by those responsible for overseeing the digital assets (Kusio and Fiore, 2022). An effective digital leader will be aware of the business goals and knows how their job responsibilities support it (Binder and Witting, 2022). At an organizational level the digital leader could for example be a company that has successfully taken advantage of their digital assets to gain and also maintain a competitive edge. These digital leaders will explore how technology can be used to help their organizations (Gretter, Ciolli and Scolozzi, 2018).

A successful digital leader understands the importance of inbound data and the processes within the organization that supports it. They place high value on their communication, creativity and willingness to explore the ways that new emerging technology and digital information can be used to help organizational projects (Breceda et al, 2020). It is also important to understand exactly what digital transformation means to help understand the role of a digital leader. Essentially this is the use of new, fast and frequently changing digital technology that is here to solve problems. Effective digital leadership helps an organization to create workflow and organizational processes that allow these new technologies, products and services to be rolled out quickly whilst also making sure that any existing legacy applications and IT operations are being maintained (Camarero and Oliva, 2019).

Table 1: Variables of the Study

Variables of incorporating smart governance in comprehensive rural development programmes		Literatures
Dependent Variables	Independent Variables	
Digital Mechanisms of Rural-urban Migration Tracking	Incorporating Union Digital Centre to Rural Migration Tracking	Testoni, C., & Boeri, A. (2015)
	Incorporating Upazila Administration to Rural Migration Tracking	Navarro-Galera, et.al. (2016)
	Incorporating Statistical Bureaus of Central Government Rural Migration Tracking	Scholl, H. J., & Scholl, M. C. (2014)
Smart Components of Participatory Rural Development	Promoting ICT in Agriculture	Kleinhans, R., Ham, M. van & Evans-Cowley, J (2015)
	Use of ICT in Rural Infrastructure Development	Gil-Garcia, J. R., Zhang, J., & Puron-Cid, G. (2016)
	Creating Agricultural Database	Osella, M., Ferro, E., & Pautasso, M. E. (2016)
	Use of ICT in Agriculture Training	Linders, D. (2012)
	Use of ICT in Rural Business	Maheshwari, D., & Janssen, M. (2014)
	Use of ICT in Rural Cooperatives	Gil-Garcia, J. R., Zhang, J., & Puron-Cid, G. (2016)
	Use of ICT in Rural Cooperatives	Gil-Garcia, J. R., Helbig, N., & Ojo, A. (2014)

Variables of incorporating smart governance in comprehensive rural development programmes		Literatures
Dependent Variables	Independent Variables	
Developing Rural Information Service Centers	Developing Union Information Service Center (UISC)	Khan, G.F. (2015)
	Developing Upazila Digital Centre (UDC)	Scholl, H. J., & AlAwadhi, S. (2016a)
	Developing District e-Service Centers (DESCs)	Meijer, A. J., & Bolívar, M. P. R. (2016)
	Developing ICT Infrastructure in Rural Area	Maheshwari, D., & Janssen, M. (2014)
Digitalization of Land Reforms	Digitalization of Agricultural Land Property Distribution	Scholl, H. J., & Scholl, M. C. (2014)
	Digitalization of Agricultural Land Database	Liu, X., & Zheng, L. (2015)
	Digitalization of Agricultural Land Property Ownership and Management	Testoni, C., & Boeri, A. (2015)
	Digitalization of Agricultural Land Legislation and Dispute Resolution	Janowski, T. (2015)
Digitalization of Land Reforms	Promoting ICT in Rural Financial Access	Gottschalk, P. (2009)
	Promoting ICT in Rural Financial Usage	Scholl, H. J., & AlAwadhi, S. (2016b)
	Promoting ICT in Rural Financial Infrastructure	Mellouli, S., Luna-Reyes, L. F., & Zhang, J. (2014)
	Promoting ICT in Rural Financial Socialization	Rose, J., Persson, J. S., & Heeager, L. T. (2015)
	Promoting ICT in Rural Financial Quality	Norris, P. (2001)
	Promoting ICT in Rural Financial Education	Gottschalk, P. (2009)

3.0 Identified Research Gap

Researches were conducted about the impact of smart governance and rural development in Bangladesh. The state of introducing smart governance in rural development is an under-researched field. This realization helps in identifying the gaps in previous research in this connection. The literature review on smart governance and rural development in Bangladesh states that many scholars have shown their interest in measuring the importance of smart governance and rural development separately in Bangladesh. However, effective leadership for enhancing smart governance in comprehensive rural development of Bangladesh are not analyzed systematically by empirical research yet.

4.1 Research Objectives

The broad objective of the paper is to find out potential scopes of leadership for enhancing smart governance in comprehensive rural development of Bangladesh which is the center to the research problem. Specifically this paper tries to explore conceivable leadership for enhancing smart governance in comprehensive rural development of Bangladesh based on the perceptions of some selected civil servants, community workers and local leaders.

4.2 Research Approach

It is a exploratory and descriptive study. This study has followed qualitative and quantitative approach in analyzing data though most of the extant studies are quantitative in nature in this field. However, undertaking more interviews could have provided better information and increasing the sample size could have provided better information about the study. As district e-service center is a latest idea, comprehensive information about it was difficult to collect and often not available. Data from both primary and secondary sources have been used in the paper. In-depth interview by semistructured questionnaire has been used to collect primary data. However, some questions were closeended to measure civil servants’, local leaders’ and community workers’ perceptions toward digitalization.

Table 2: Selection of Respondents

Type of Respondents	Total Respondents 425	Rational of Selection
Government officials	240	They are currently working with rural development and e-government activities of the government. Among the officers, 36% is from BCS administration cadre, 24% is from BCS general education cadre, 10% is from BCS health cadre, 8% is from BCS economic cadre, 8% is from BCS police cadre, 5% is from BCS economic cadre, 4% is from BCS information cadre, 3% is from BCS foreign cadre and rest of the 2% is from BCS taxation cadre.
Community workers	100	They are from various non government organizations and currently working in various rural development projects under the supervision of Ministry of Local Government and Rural Development Co-operatives in Bangladesh.
Local political leaders	85	Among the local leaders, 40% are member of upazila parishads (sub-district in Bangladesh), 40% are member of zila parishads (district level in Bangladesh) and rest 20% are local level politicians.

The questionnaire was designed based on the previous studies that adopted e-governance model as their theoretical framework. Secondary data were collected from various published documents.

4.3 Data Analysis and Triangulation

Findings of interviews (425 respondents) are qualitative data in nature. For better analysis, qualitative data set has been transformed into quantitative data set by coding. Qualitative data have been drawn from reviewed sources. Qualitative analysis has covered content analysis of data collected through different qualitative methods. Comparing qualitative content analysis with its familiar quantitative counterpart has enhanced understanding of the study. Content analysis has been made for making replicable and valid inferences from data to their context, with the purpose of providing knowledge, new insights, a representation of facts and a practical guide to action. The qualitative and quantitative data analyses have been made separately and their findings have been triangulated.

5.0 Findings and Analysis

Based on the perceptions of the interviewees, the following strong potential leadership qualities have been explored for incorporating smart governance to comprehensive rural development of Bangladesh.

Table 3: Findings

Variables of incorporating smart governance in comprehensive rural development programmes (n=425)	Potential Role of Local Leaders		Potential Role of Field Officers and Community Workers		Potential Role of Ministries and Divisions of Central Government	
	<i>f</i>	%	<i>f</i>	%	<i>f</i>	%
Most Potential Quality						
Incorporating Union Digital Centre to Rural Migration Tracking	391	92	21	5	13	3
Incorporating Upazila Administration to Rural Migration Tracking	255	60	140	33	30	7
Incorporating Statistical Bureaus of Central Government Rural Migration Tracking	98	23	259	61	68	16
Promoting ICT in Agriculture	323	76	81	19	21	5
Use of ICT in Rural Infrastructure Development	285	67	110	26	30	7
Creating Agricultural Database	98	23	259	61	68	16
Use of ICT in Agriculture Training	21	5	391	92	13	3
Use of ICT in Rural Business	140	33	255	60	30	7
Use of ICT in Rural Cooperatives	399	94	26	6	0	0
Use of ICT in Rural Marketing	119	28	242	57	64	15
Developing Union Information Service Center (UISC)	416	98	9	2	0	0
Developing Upazila Digital Centre (UDC)	250	59	157	37	18	4

Variables of incorporating smart governance in comprehensive rural development programmes (n=425)	Potential Role of Local Leaders		Potential Role of Field Officers and Community Workers		Potential Role of Ministries and Divisions of Central Government	
	<i>f</i>	%	<i>f</i>	%	<i>f</i>	%
Most Potential Quality						
Developing District e-Service Centers (DESCs)	136	32	191	45	98	23
Developing ICT Infrastructure in Rural Area	191	45	162	38	72	17
Digitalization of Agricultural Land Property Distribution	242	57	170	40	13	3
Digitalization of Agricultural Land Database	230	54	145	46	0	0
Digitalization of Agricultural Land Property Ownership and Management	128	30	238	56	59	14
Digitalization of Agricultural Land Legislation and Dispute Resolution	119	28	242	57	64	15
Promoting ICT in Rural Financial Access	170	40	221	52	34	8
Promoting ICT in Rural Financial Usage	298	70	110	26	17	4
Promoting ICT in Rural Financial Infrastructure	225	53	191	45	9	2
Promoting ICT in Rural Financial Socialization	123	29	255	60	47	11
Promoting ICT in Rural Financial Quality	162	38	191	45	72	17
Promoting ICT in Rural Financial Education	110	26	306	72	9	2

5.1 Leadership for Smart Tracking of Rural-Urban Migration

Rural urban interface may well be subsumed at tradition modernity continuum. Rural sector is a synonym for grass root or base functioning as the center of production. Contrarily urban sector is relatively much modern with rich amenities of life and sophisticated life style. It is a seat of administration and distribution. Rural-urban migration was a much debated issue during seventies. Various unfavorable antecedents and eventualities push the villagers to rush to cities for shelter. In addition, the factor like structural and non-structural violence has largely disturbed peaceful coexistence. More, subhuman living conditions in dilapidated huts, deteriorating amenities and lack of health facilities have downtrodden the rural poor. These, altogether constitute what might be conceptually termed as ‘push factor’. The continued migration process with the operation of push factor is an indication of the transfer of poverty from the rural areas to major urban centers. By using information

and communication system, local leaders can easily track digital state of rural-urban migration regularly.

5.2 Leadership for Promoting Smart Components of Participatory Rural Development

Participation, as an attribute of societal modernization, denotes mass involvement in institution building activities, increasing consciousness of the masses for self-government, community development, information technologies and available logistics for distribution. In traditional rural societies participation is narrowly spaced owing to mass ignorance about cosmopolitan values. In transitional villages participation is wide ranging in the context of active process of involvement of the peasants in assuming the responsibility of and contribution to local governance. So, participatory rural development has become as acceptable doctrine to pull the backward community to prosperity. By using smart governance, local leaders can easily promote this approach. It is gaining ground as an important policy issue to comply with public demand for better extension services by the bureaucratic organizations and NGOs alike, dissemination of new ideas, employment generation, bottom-up planning, partnership between the beneficiaries and promoters of development, access to information about the progress of the on-going projects. Objective of privatization of rural affairs is difficult to achieve without reference to the provision of participatory rural marketing system. Institutionally construed mechanism of market is far from effective unless it serves the interests of the primary producers. By utilizing ICT, participatory rural marketing has cropped up as a recent policy issue to ensure equity participation in marketing facilities. Although Comprehensive Village Development (CVD) programs seeks to promote participation in marketing facilities the coverage of marketing is too little to ensure overall redistributive policy mechanism for micro-economic stabilization. Local leadership will certainly promote smart components of participatory rural marketing in Bangladesh.

5.3 Leadership for Rural Information Service Center

At present, District e-Service Centers (DESCs) are functional in every 64 DC Offices in Bangladesh. These centers have made the public service delivery process stress-free by reducing covers of red tapes, time, difficulty and distances. Now people need not to stand in long queues to avail public services. As a result, transparency and accountability in public service delivery have been improved through the use of such tracking systems. DESCs have been established to improve the accessibility and transparency of public service delivery system at district level. These centers work to (a) ensure public service delivery at the door steps of the people, (b) support citizens' Rights to Information through widespread flow of information, (c) use less time and

labor in processing, (d) increase the number of citizens served every day, (e) combatting corruption and (f) intensify accountability by ensuring flow of information and transparent procedure. Bangladesh government, therefore, introduced Union Information Service Center (UISC) almost in every Union Parishad (UP). UISC is a sort of one-stop-service provider of ICT that runs with the principles of Public Private-Partnership (PPP). It has become not only a knowledge hub for the rural community, but also a center for disseminating information to establish good governance among the rural mass. Thus, UISC ensures people's access to 'Right to Information (RTI)'. UISCs create scopes of job orientation for the unemployed rural youths; provide market information to the farmers and articulate government circulars among the concerned aspirants. Thus, it facilitates government's effort to build e-Governance establishment countrywide through a speedy and cost-effective form of communication. UISC has been performing as a bridge between the bureaucrats, government officials, NGOs, businessmen, farmers, teachers, doctors, students and the other stakeholders. As a whole, UISC has been considered as a government policy where 'nobody kept aside' in the reign of globalizing every aspect of human achievements including mobile banking, rural banking etc. The honest pledge of the government - Digital Bangladesh - cannot be achieved in a quicker track without incorporating and involving ICT in the local government system. UISCs are offering enormous opportunities in accessing ICT amenities to the people living in remote areas in Bangladesh. However, there are some loopholes in the process and a better management in UISCs can make a bridge among the government institutions, people of remote areas, central bureaucracy and local administration. Primarily, the government should concentrate on developing and improving the infrastructures that are required. Necessary investment should be made on building ICT infrastructure throughout the country, keeping in mind that the returns from such investment will be of long-term. To ensure equal access to technology for all citizens, government should improve internet infrastructure throughout the country. This will enable every citizen to find and receive information as well as public services from different government organizations consistently and easily. There should be a process to have 24 hour and immediate maintenance for the effective management of rural development initiatives. It is very crucial for Government to supply and installation of necessary hardware, customized software and internet connectivity to the field administration offices. Government should consider nationwide networking infrastructure with faster internet speed at the lowest cost. Bangladesh is connected to only one submarine cable at present. It is the time to take necessary actions in order to get connected with an alternative submarine cable with a view to confirming frequent internet connectivity in Bangladesh. Power situation of such thrust area needs to be taken care of with highest priority. Table 3 shows that local leaders are the most potential actors in promoting rural information service center.

5.4 Leadership for Digitalization of Agricultural Land Reforms

The existing agrarian relation based on land ownership pattern is one of the most serious problems of rural development. Tinged with traditional context of such relationship the agricultural sector suffers continuous stress and strain failing to reach the expected level of production. Uneconomic size of holdings reduces productivity. Absentee landlordism is another defect. To arrest this alarming situation, land reform policy needs to be seriously reviewed. The actual farmers with plough should obtain access to the major portion of arable land. Redistribution prioritizing the bonfire farmers will not be effective if it is thought with political purpose. Fictitious list of landless farmers will be disastrous. 56% respondents believe that local leaders can play an effective role in proper implementation of land reforms depends inter alia on the transparency of the personnel involved in land administration and favorable policy environment. Hence, there is no alternative of digitalizing land administration and reforms where local leadership can play the most vital role in Bangladesh.

5.5 Leadership for Promoting ICT in Rural Financial Inclusion

Recent experience in the field for rural development has shown that access to collateral free credit facilities has the prospect of utilizing untapped potentials in non-crop areas. The need for credit support aiming to increase income generating activities for the surplus human resources in these areas deserves mention in the recent policy dialogue. This is a systematic target oriented emphasis providing opportunities for ameliorating the conditions of the population below poverty line. The financial inclusion system aims at increasing productive capabilities of the beneficiaries enabling them to move on to prosperity and self-development. Financial inclusion program is through to be the threshold of economic empowerment of the rural poor. As a policy issue the scheme of loan disbursement for this class through proper institution building is gaining ground recently. Financial inclusion is intended to alleviate rural poverty covering a large percentage of the poorest of the poor. Through smart governance, local leadership will surely promote such financial inclusion in Bangladesh. The new policy moves in the direction of institutionalization of microcredit through Palli Karma Sahayak Foundation is intended to help the rural working class, small traders, small investors and entrepreneurs to help themselves. The Foundation has emerged as an institutional expression of micro-financing activities involving the operating NGOs as the partner organizations. The NGOs have been providing micro-finance services to the rural working class. Their outreach programs with micro-credit is now under the threshold of expansion. Efficient delivery of micro-finance service on a large scale is expected to provide a background of sustainable development. In fact micro-credit is

beginning to strengthen the social and human capital of the target beneficiaries at the household, enterprise and community level. Recently all the credit organizations use various information communication technologies in micro-credit activities. This is also a gateway of local leadership to promote comprehensive rural development by enhancing smart governance.

6.0 Conclusion and Future Research Directions

It is analyzed that the potential qualities of local leadership for incorporating smart governance to comprehensive rural development of Bangladesh are- (a) incorporating union digital center to rural migration tracking, (b) incorporating upazila administration to rural migration tracking, (c) promoting ICT in agriculture, (d) use of ICT in rural infrastructure development, (e) use of ICT in rural cooperatives, (f) developing union information service center, (g) developing upazila digital center, (h) developing ICT infrastructure in rural area, (i) digitalization of agricultural land database, (j) digitalization of agricultural land property distribution, (k) promoting ICT in rural financial usage and (l) promoting ICT in rural financial infrastructure. Rural development is always an important policy package of the Government of Bangladesh. Public institutions and NGOs are likely to step into the role of an effective promoter of rural development for the fulfillment of basic needs of the rural beneficiaries. This is in line with the goals of basic need approach. At times problems of the disadvantaged groups have been addressed through ICT. Digital Bangladesh involves reconsidering the whole rural development system crosswise in all levels of government from a voter perspective. It is projected that a pro-citizen approach will empower the government to achieve crucial efficiency and expand service delivery levels. Such attempts can intensify usage of online services, increase sustainability and encourage investment. Digitalized rural development system can certainly increase people's satisfaction with improved government services and quality of life with the involvement of local leadership. People's earning, productivity, expertise and entrepreneurship, and as a whole, the human capital formation in Bangladesh have been viewed in a broader development perspective through this context to promote digitalized public service delivery system. Such rural development centers have been recognized as the humble initiatives of the government to develop a behavioral change of the people of Bangladesh. It helps people to be acquainted with the cultural, social and economic norms of the global community. While the use of ICT facilities like- computer literacy, email, browsing the internet and printing etc., were earlier meant for the urban people, now through these centers, the rural people of Bangladesh are equally enjoying access to almost all the ICT services. Coordination between the urban and rural structure of information disseminating is simultaneously regarded as a possibility of ensuring 'development with all, development for all' policy of the government. Nevertheless, in reality, the digital divide is notably deepening between rural and urban areas of the

country. In such a backdrop, there is a strong need to carry on an in-depth study on the information hubs located at grass-root levels to uncover the ground realities following a standard form of academic pursuit. The idea is to enable the rural poor by local leadership to involve in participatory development process through smart governance. There has been institutional concern to activate the vast reservoir of human resources to educate the poor and to enhance their institutional status. Such concern is a symbol of realization about the inadequacy of the resource poor and powerless vulnerable groups of population. Finally, it is imperative to organize the vulnerable into an institutional framework through target group approach in further research.

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