



Ministry Of Trade And Industry

**RURAL ENTERPRISES PROGRAMME (REP)**



## Brief On TECHNOLOGY SOLUTION CENTRES

### What is a TSC?

The Technology Solution Centre (TSC) is a technical workshop equipped with metal-working machines for the development and promotion of appropriate technology to micro, small and medium scale enterprises (MSMEs), spare parts production and technical training.

Twenty-One (21) TSCs were established as Rural Technology Facilities (RTFs) under the Rural Enterprises Project Phases 1 & II between 1995 and 2011. Under the current Programme Phase, REP has adopted five (5) new RTFs which have been rehabilitated, re-tooled and rebranded, together with the 21 existing RTFs as Technology Solution Centres (TSCs) in support of the National Industrial Transformation Agenda of the Government of Ghana. Additionally, REP has established five (5) new and bigger versions of the TSCs nationwide, bringing the total number to 31 nationwide **(Locations are attached as appendix)**.

These have been established with funding from the Government of Ghana, the International Fund for Agricultural Development (IFAD) and the African Development Bank (AfDB).

The RTFs were established to serve as magnets for industrial activity and were equipped to perform as hubs for technology promotion, dissemination and transfer to the informal sector. They were also to provide skills training to master craftspersons and apprentices and follow up to train beneficiaries on the use and maintenance of agro-processing equipment at various sites. To this

end, the RTFs were expected to increase the productive capacity of rural producers and promote the commercialization and specialization of agriculture within the framework of national economic growth.

## Primary Functions under the New TSC Model

The new TSC model was conceived in 2017 by MOTI under the general plan to realign the REP to be consistent with the Government of Ghana's industrialisation policy. They are to respond to the technological needs of the Government's Industrialization Agenda. Accordingly, in addition to the to perform the following key functions:

- Production of specialized components parts, spare parts and the provision of repair and after-sale services for district factories, automobile and oil & gas industry;
- Provision of maintenance support for factories
- Manufacturing of agro-processing equipment and agricultural implements.
- Provide training for human resource capacity building.

## Machinery and Equipment in the Hohoe TSC

The equipment/machines installed at the two key sections of the Workshop Floor of the Hohoe TSC include:

### Welding and Fabrication Floor

1. AC/DC Electric Arc Welding Set
2. Electric Arc Mobile welding set
3. Heavy Duty Hydraulic Press
4. Metal Sheet Power Operated Rolling Machine
5. Profile (Tube/Pipe) Bending Machine

## SOME EQUIPMENT INSTALLED AT THE TSCs



Lathe Machine



Drilling Machines



Guillotine machine



Power /Hydraulic Hacksaw



Pedestal Drinder



Rolling machine

6. Box and Pan Powered Folding Machine
7. Metal Sheet Hydraulic Swing-Beam Shears (Guillotine)
8. Spot Welding set
9. Oxy-Accetylene Gas Welding set
10. Air Compressor
11. Hand Shearing Machine
12. Set of Blacksmith Machine.

### **Machining Floor**

1. Centre Lathe
2. Shaping Machine
3. Universal Milling Machine
4. Radial Arm Pillar Drilling Machine
5. Bench Drilling Machine
6. Power/Hydraulic Hacksaw
7. Hand Power Drilling Machine
8. Set of Hand Power Angle Grinder
9. Pedestal Grinder
- 10 Set of hand measuring tools



### **Difference between Existing/ Adopted and Five Bigger TSCs**

The TSCs have enhanced capacities with much bigger workshop buildings and workshop spaces for machining and fabrication; offices, classrooms, showrooms, kitchenettes and conference facilities. They are equipped with modern machinery and tools to provide the technology solution needs of industries within their catchment areas.

### **Human Resource Development Activities by the TSCs**

The human resource development programme of the TSCs entails the training of Master Craft Persons, Traditional Apprentices and Technical Apprentices. The Master Craft Persons and the Traditional Apprentices are trained on new prototype Technologies. Technical Apprentices are JHS and SHS graduates who do not have the opportunity to continue their formal education and are interested in technical training and undergo 3-year training. At the end of the training, they are made



to sit for the National Vocational Training Institute (NVTI) Certificate examination. The graduates are also supported by REP with Start-Up Kits in various trades to start their businesses. Students from Tertiary institutions also come for attachment to acquire practical knowledge at the TSCs during vacations.

### **Hostel Facilities at 5 Selected TCS**

To boost interest in the training activities of the TSCs, hostels (male and female) have been built and attached to five selected TSCs, nationwide. These are in Bole, Bechem, Garu, Goaso and Half Assini. The hostels thus provide a more conducive environment to attract technical apprentices from beyond the host districts of the TSCs and contribute to the effective learning of the apprentices. All the hostels are operational.

### **How are the TSC going to be managed?**

The 26 existing RTFs have been managed in collaboration with the GRATIS Foundation and hosts District Assemblies.

However, going forward, the TSC together will be managed by strategic partners/investors from the Private sector while Government through Gratis Foundation retains ownership of the facilities. The private sector partners/ strategic investor will be selected through an appropriate competitive bidding process. The private sector participation model/ business model to be adopted will be the franchising model, in line with the recommendations in the TSC franchising report, where Gratis Foundation will be the Franchisor on behalf of the Government with the private sector operators acting as the

### **For further information contact**

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Rural Enterprises Programme (REP)

**LOCATIONS OF TSC AND THEIR OPERATIONAL ZONES**

| No | Region    | TSC/Location    | Operational Zones                                                                                                                                                    | No of Districts |
|----|-----------|-----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| 1  | Ahafo     | Bechem          | Tano South; Ahafo Ano North; Asutifi South; Ahafo Ano South West; Ahafo Ano South;                                                                                   | 5               |
| 2  | Ahafo     | Goaso           | Asunafo North; Asunafo South; Bia West; Bia East; Bodi; Juaboso; Ahafo Ano South East                                                                                | 7               |
| 3  | Ashanti   | Bekwai          | Obuasi; Akrokorom; Obuasi East; Adansi North; Adansi Asokwa; Adansi South; Bekwai; Bosomtwe; Atwima-Kwanwoma; Amansie West; Amansie South; Amansie Central; Kwadaso; | 13              |
| 4  | Ashanti   | Mampong         | Sekere South; Kwabre East; Old Tafo; Atebubu-Amantin; Pru East; Pru West; Sene East; Sene West; Mampong; Ejura-Sekyedumase; Sekyere Central                          | 11              |
| 6  | Ashanti   | Kumawu          | Sekyere East; Kumawu; Sekyere-Afram Plains; Juaben; Asokore-Mampong; Kumasi Metro; Suame                                                                             | 7               |
| 7  | Ashanti   | Konongo         | Asante Akim Central; Asante-Akim North; Asante-Akim South ; Oforikrom; Ejisu; Bosome-Freho; Asokwa                                                                   | 7               |
| 8  | Ashanti   | Offinso         | Offinso; Afigya-Kwabre North; Afigya-Kwabre South; Offinso North                                                                                                     | 4               |
| 9  | Bono      | Dormaa- Ahenkro | Dormaa Central; Dormaa East; Dormaa West; Berekum; Berekum East; Berekum West                                                                                        | 6               |
| 10 | Bono      | Drobo           | Jaman North; Jaman South; Tain; Banda                                                                                                                                | 4               |
| 11 | Bono East | Techiman        | Techiman; Techiman North; Nkoranza South; Wenchi; Kintampo North; Kintampo South; Nkoranza North                                                                     |                 |
| 12 | Central   | Elmina          | KEEA; Shama; Mpohor; Wassa East; Twifo Ati Morkwa,                                                                                                                   | 5               |
| 13 | Central   | Mankessim       | Ajumako/Enyan/Essiam; Asikuma/ Odoben/ Brakwa; Gomoa West; Mfantseman; Ekumfi; Gomoa Central                                                                         | 6               |
| 14 | Central   | Assin Adubiase  | Assin Fosu; Assin South; Assin North; Upper Denkyira East; Upper Denkyira West;                                                                                      | 5               |
| 15 | Central   | Awutu Breku     | Awutu Senya; Awutu Senya East; Agona East; Agona West; Ga South; Weija Gbawe; Ayawaso East; Ayawaso West; Ayawaso North, Gomoa East; Efutu;                          | 11              |
| 16 | Eastern   | Suhum           | Abuakwa South; Suhum; Nsawam Adoagyire; Ayensuano; Ga North; Ga West; Ga East; Ga Central                                                                            | 8               |

|    |               |             |                                                                                                                                                    |    |
|----|---------------|-------------|----------------------------------------------------------------------------------------------------------------------------------------------------|----|
| 17 | Eastern       | Somanya     | Asuogyaman; Upper Manya Krobo; Yilo Krobo; Lower Manya Krobo; Akuapim North; Akuapim South; Okere; Shai Osudoku                                    | 8  |
| 18 | Eastern       | Asamankese  | Kwaebibirem; Akyemansa; Birim North; Denkyembour; Birim Central; Birim South; Upper West Akim; West Akim; Asene Manso Akroso;                      | 13 |
| 19 | Eastern       | Donkorkrom  | Kwahu South; Kwahu East; Kwahu West; Kwahu Afram Plains North; Kwahu Afram Plains South; Atiwa East; Atiwa West; Fanteakwa South; Fanteakwa North; | 9  |
| 29 | Volta         | Hohoe       | Hohoe; Jasikan; South Dayi; North Dayi; Kadjebi; Biakoye; Kpando; Afadjato South; Guan                                                             | 11 |
| 20 | Volta         | Adidome     | Ada East; Ada West; South Tongu; North Tongu; Central Tongu; Keta; Akatsi South; Ketu South;                                                       | 8  |
| 21 | Northern      | Savelugu    | Karaga; Nanton; Savelugu; Gushiegu; Saboba; Mamprugu Moaduri; West Mamprusi;                                                                       | 7  |
| 22 | Northern      | Salaga      | Kpandai; Tatale-Sangule; Zabzugu; East Gonja, Nanumba North; Nanumba South; North East Gonja                                                       | 7  |
| 23 | Oti           | Kete Krachi | Nkwanta North; Nkwanta South; Krachi East; Krachi Nchumuru; Krachi West                                                                            | 5  |
| 24 | Savanna       | Bole        | West Gonja; Sawla-Tuna-Kalba; Bole; North Gonja; Central Gonja                                                                                     | 5  |
| 25 | Upper East    | Garu        | Bawku West; Binduri; Bunkpurugu-Nyankpanduri; Chereponi; East Mamprusi ; Yunyoo-Nasuan                                                             | 6  |
| 26 | Upper East    | Navrongo    | Bongo; Builsa South; Builsa North; Kassena Nankana East; Kassena Nankana West                                                                      | 5  |
| 27 | Upper West    | Gwollu      | Sissala East; Sissala West; Lambussie- Karni                                                                                                       | 3  |
| 28 | Upper West    | Nadowli     | Jirapa; Daffiama-Bussie-Issa; Nadowli-Kaleo; Lawra; Nandom                                                                                         | 5  |
| 30 | Western       | Asankragua  | Tarkwa-Nsuaem; Prestea-Nuni valley, Wassa Amenfi East; Wassa Amenfi West; Aowin; Suaman                                                            | 6  |
| 5  | Western North | Bibiani     | Atwima Nwabiagya; Atwima Nwabiagya South; Sefwi Akontombra; Sefwi Wiawso; Bibiani/Anhwiaso/Bekwai; Wassa Amenfi Central; Atwima-Mponua             | 7  |
| 31 | Western North | Half Assini | Nzema East; Jomoro; Ellembelle                                                                                                                     | 3  |

## Key

|  |                           |
|--|---------------------------|
|  | 5 Large TSCs              |
|  | Existing and Adopted TSCs |