A BRIEF REPORT

ON

EXPOSURE VISIT TO

TEA RELATED VITAL INSTITUTES

OF SRI LANKA

DURATION: 10 JUNE 2019 - 14 JUNE 2019

TEAM LEADER:

MD. GOLAM MOWLA
JOINT SECRETARY, GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
MEMBER (RESEARCH AND DEVELOPMENT)
BANGLADESH TEA BOARD, CHATTOGRAM

TEAM MEMBERS:

DR. A K M RAFIKUL HOQUE
DIRECTOR (ACTING)
PROJECT DEVELOPMMENT UNIT
BANGLADESH TEA BOARD, SRIMANGAL, MOULVIBAZAR

MD. RIYADH AREFIN
SCIENTIFIC OFFICER (BOTANY DIVISION)
BANGLADESH TEA RESEARCH INSTITUTE, SRIMANGAL, MOULVIBAZAR

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BANGLADESH TEA RESEARCH INSTITUTE, SRIMANGAL, MOULVIBAZAR

INDEX

ACKNOWLEDGEMENT

- ALL PRAISE TO ALMIGHTY ALLAH FOR GIVING US THE OPPORTUNITY TO ROAM AROUND AND SEEKING KNOWLEDGE AND GATHERING EXPERIENCE IN THE ARENA OF SCIENCE AND RESEARCH OF TEA IN A COUNTRY LIKE SRI LANKA.
- SPECIAL THANKS GOES TO OUR HONORABLE CHAIRMAN **MAJOR GENERAL MD. JAHANGIR AL MUSTAHIDUR RAHMAN, PSC** FOR HIS LIMITLESS BACK SUPPORT.
- WE ALSO LIKE TO THANKS ALL OF THE PEOPLE FROM BANGLADESH TEA BOARD (BTB) WHO WERE ASSOCIATED TO THIS PROGRAM.
- WE ALSO THANKS TEA RESEARCH INSTITUTE (TRISL) AND OTHER TEA RELATED VITAL INSTITUTES OF SRI LANKA FOR THEIR HEARTIEST COOPERATION.
- IN CONCLUSION, WE HOPE THAT THIS VISIT WILL HELP US TO SORT OUT PROBLEMS, FINDING SOLUTIONS AND HELP US FOR THE BETTERMENT OF PRESENT CONDITION OF TEA INDUSTRY OF BANGLADESH.

DAY 01

VISIT TO SRI LANKA TEA BOARD (SLTB)

MR. DHANUSHKA KARUNARATNE, ASSISTANT DIRECTOR (PROMOTION), SRI LANKA TEA BOARD WELCOMED US AT OUR HOTEL.

HE GAVE US A SHORT DESCRIPTION ABOUT SRI LANKA TEA BOARD.

LATER ON HE GUIDED US TO THE SRI LANKA TEA BOARD OFFICE.

AN OFFICIAL MEETING WAS HELD WITH SRI LANKA TEA BOARD HIGH OFFICIALS IN THEIR CONFERENCE ROOM.

WELCOMED BY:

- **MR. ANURA SIRIWARDHANA**
  DIRECTOR GENERAL (DG)
- **MR. JAYANTHA EDIRISINGHE**
  TEA COMMISSIONER
- **HASITHA de ALWIS,**
  CONSULTANT (PROMOTION)
- **OTHER HIGH OFFICIALS**

INTRODUCTION TO SRI LANKA TEA BOARD (SLTB)

ESTABLISHED ON 01ST JANUARY 1976, UNDER THE SRI LANKA TEA BOARD LAW NO. 14 OF 1975, AS AMENDED BY ACT NO. 17 OF 1985, NO. 44 OF 1990, NO. 29 OF 2003, AND NO. 44 OF 2006.

BEFORE THE TEA BOARD ESTABLISHED, IT WAS KNOWN AS TEA PROPAGANDA BOARD, WHICH WAS RUN BY THE PRIVATE SECTOR.

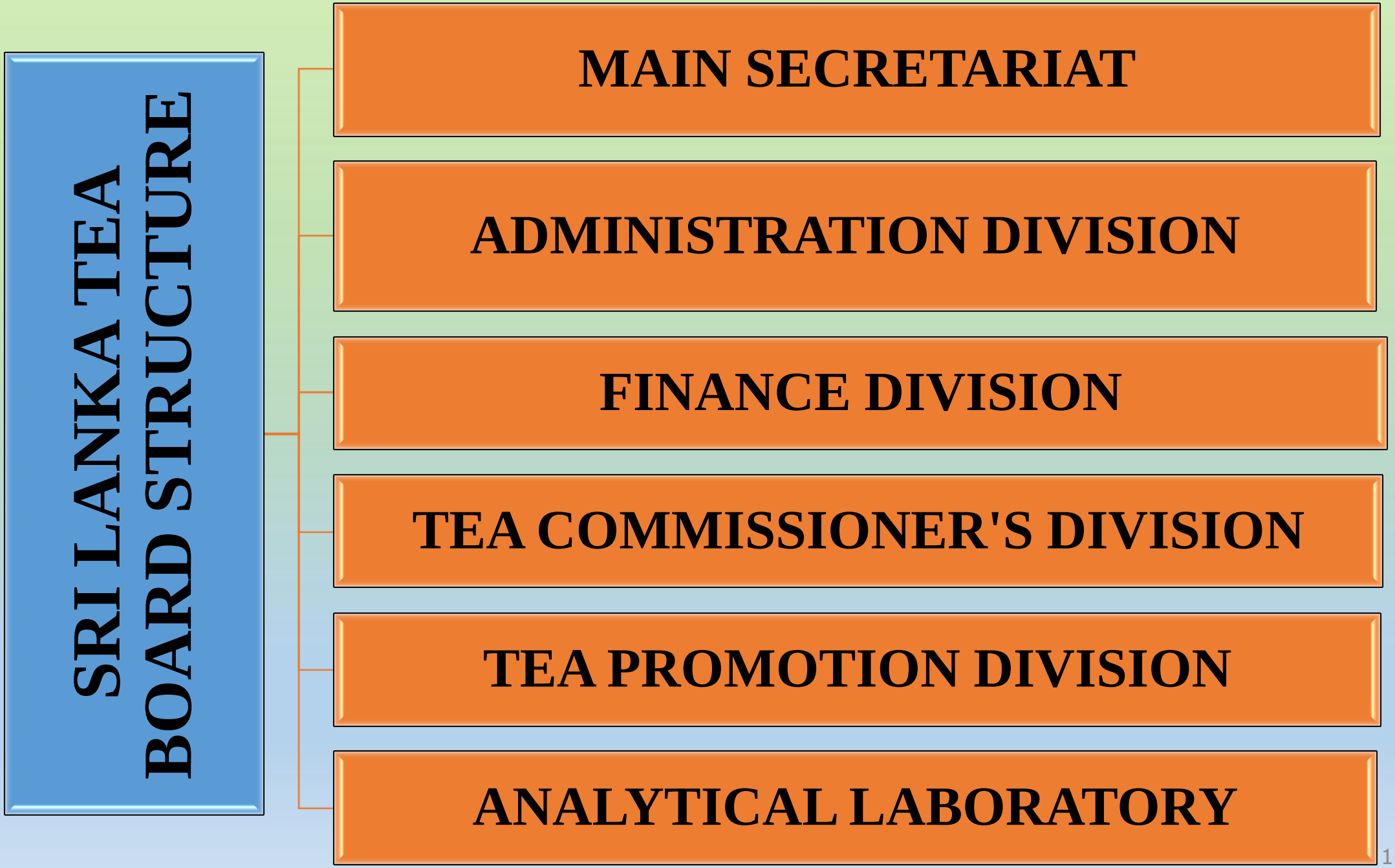
THE OBJECTIVES OF THE TEA BOARD UNDER THESE ACTS ARE FOR THE DEVELOPMENT AND REGULATION OF THE TEA INDUSTRY IN SRI LANKA AND PROMOTION OF SRI LANKA TEA (CEYLON TEA) GLOBALLY.

VISION

TO REPRESENT CEYLON TEA AS THE "MOST ASPIRED BEVERAGE" IN THE GLOBAL MARKET.

MISSION

TO INCREASE THE FOREIGN EXCHANGE EARNINGS TO THE COUNTRY THROUGH SUSTAINABLE DEVELOPMENT OF THE INDUSTRY AND THEREBY ENSURING THE ECONOMIC DEVELOPMENT OF THE PLANTATION COMMUNITY.


SRI LANKA TEA BOARD STRUCTURE
MAIN SECRETARIAT
ADMINISTRATION DIVISION
FINANCE DIVISION
TEA COMMISSIONER'S DIVISION
TEA PROMOTION DIVISION
ANALYTICAL LABORATORY

SRI LANKA TEA BOARD STRUCTURE

MAIN SECRETARIAT: RESPONSIBLE FOR OVERALL SUPERVISION OF ALL THE ACTIVITIES WITH REGARD TO REGULATION, DEVELOPMENT AND PROMOTION OF THE TEA INDUSTRY.

ADMINISTRATION DIVISION: ADMINISTRATION DIVISION IS RESPONSIBLE FOR OVERALL HUMAN RESOURCE MANAGEMENT AND DEVELOPMENT, PROCUREMENT & STORES, MAINTENANCE, INFRASTRUCTURE DEVELOPMENT AND TRANSPORT.

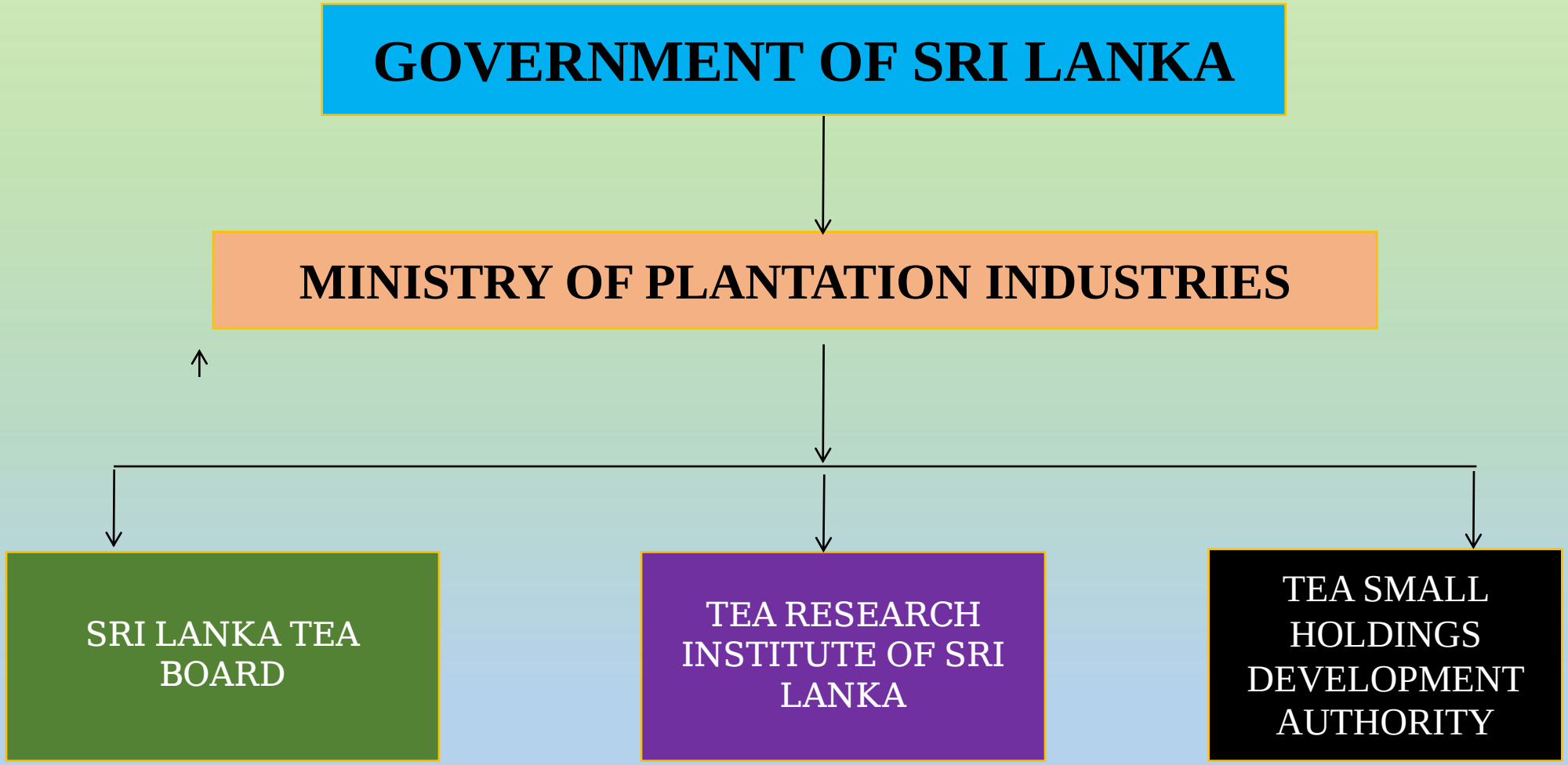
FINANCE DIVISION: FINANCE DIVISION IS RESPONSIBLE FOR OVERALL FINANCIAL CONTROL AND MANAGEMENT OF SRI LANKA TEA BOARD.

TEA COMMISSIONER'S DIVISION: ALL MATTERS CONNECTED WITH REGULATORY FUNCTIONS IN RESPECT OF CULTIVATION, MANUFACTURE OF TEA, AND QUALITY DEVELOPMENT.

TEA PROMOTION DIVISION: ALL MATTERS CONNECTED WITH PROMOTION OF SRI LANKA TEA LOCAL AND INTERNATIONALLY, ASSISTED BY OVERSEAS OFFICES.

ANALYTICAL LABORATORY: RESPONSIBLE FOR TESTING AND ISSUING OF QUALITY CERTIFICATES IN RESPECT OF CHEMICAL, MICROBIOLOGICAL AND PESTICIDES RESIDUE QUALITY PARAMETERS.

- BEFORE 1972 THE COUNTRY WAS KNOWN AS CEYLON.
- THE LOGO IS OWNED BY THE SRI LANKA TEA BOARD AND GLOBALLY TRADEMARKED.
- LION LOGO ON YOUR PACK OF TEA IS A GURANTEE FOR 100% PURE CEYLON TEA PACKED IN SRI LANKA.


GOVERNMENT OF SRI LANKA
MINISTRY OF PLANTATION INDUSTRIES
SRI LANKA TEA BOARD
TEA RESEARCH INSTITUTE OF SRI LANKA
TEA SMALL HOLDINGS DEVELOPMENT AUTHORITY

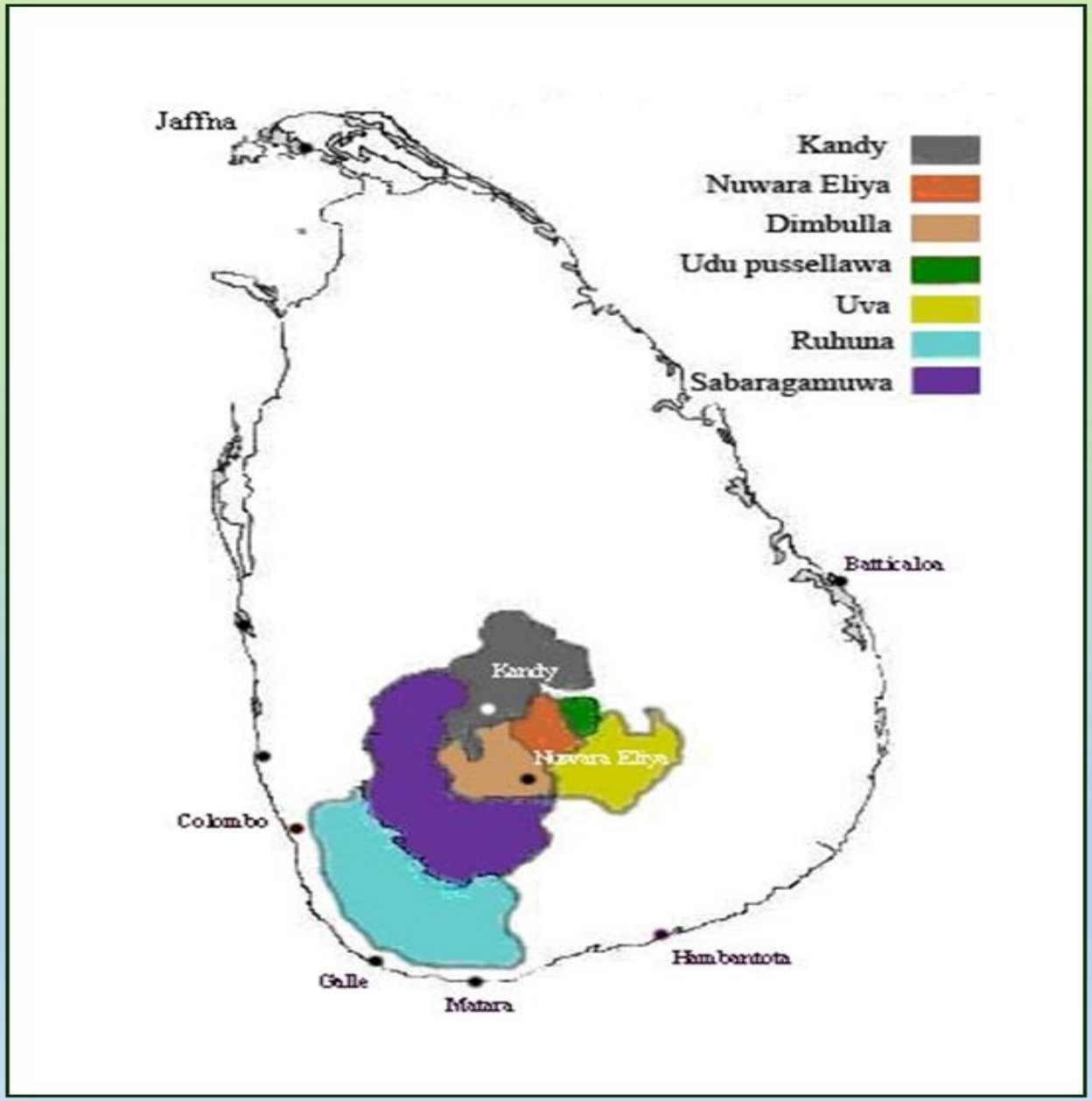
KEY POINTS ON SRI LANKA TEA BOARD

CHAIRMAN IS SELECTED BY THE GOVT. THROUGH THE MINISTRY AND IS THE REPRESENTATIVE OF THE MINISTRY.

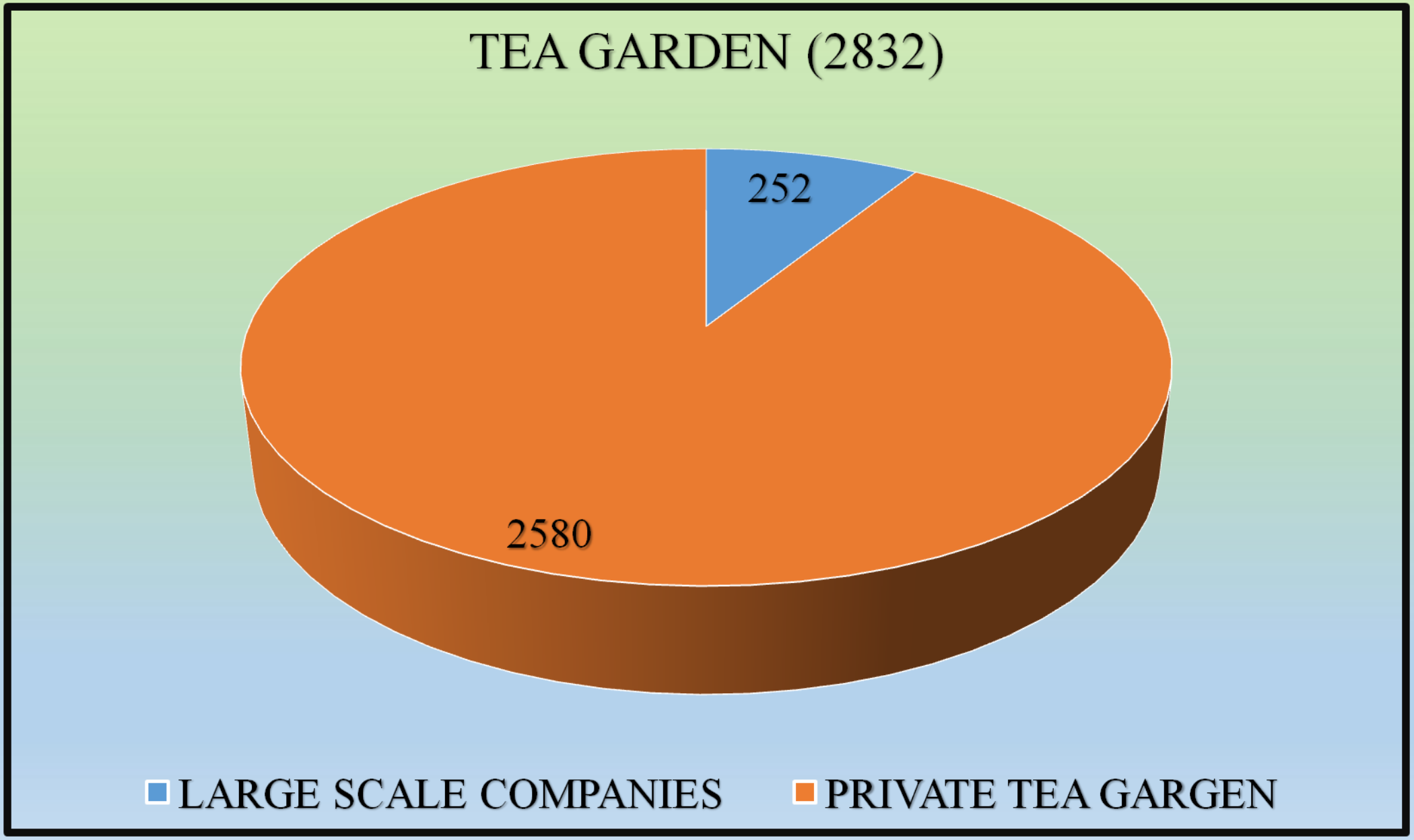
DIRECTOR GENERAL (DG) IS THE CEO OF THE BOARD.

SRI LANKA TEA BOARD HAS THREE REGIONAL OFFICERS IN THREE DIFFERENT COUNTRIES NAMELY CHINA, RUSSIA AND DUBAI TO PROMOTE CEYLON TEA MARKETING GLOBALLY.

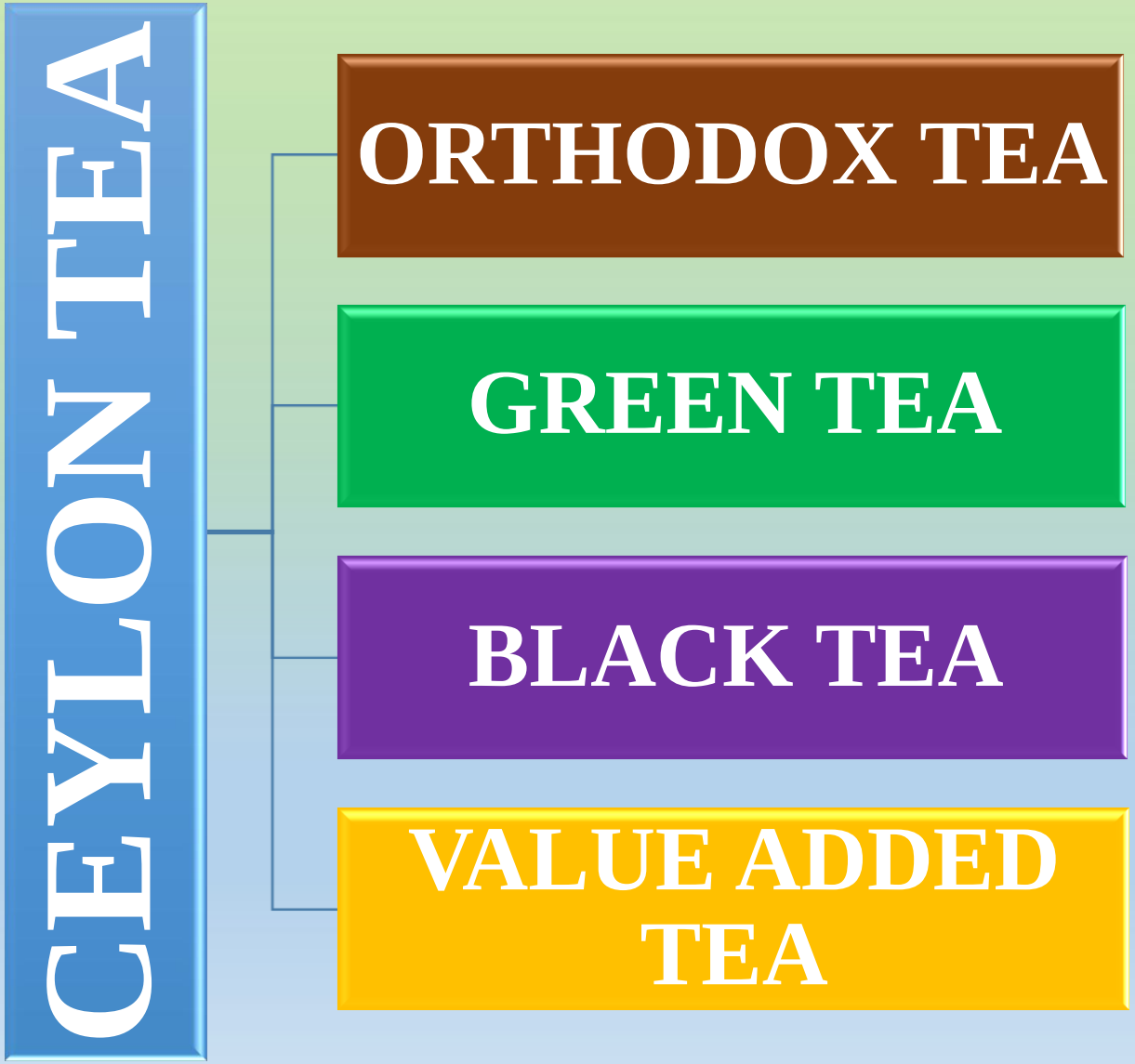
AGRO-CLIMATIC TEA GROWING REGIONS OF SRI LANKA



- HIGH GROWN (1000 METER ABOVE):
  NUWARA ELIA, UDAPUSSELLAWA, UVA, DIMBULA.
- MEDIUM GROWN (600-1000 METER):
  KANDY.
- LOW GROWN (BELOW 600 METER):
  SABARAGAMUWA, RUHUNA.


TEA GARDEN (2832)
252
2580
LARGE SCALE COMPANIES
PRIVATE TEA GARGEN

TYPES OF CETLON TEA



OTHER KEY DISCUSSION

- HAND PLUCKING SYSTEM IN MEDIUM AND HIGH LAND AREAS.
- MORE THAN 0.5 MILLION SMALL TEA GROWERS.
- LABOUR WAGES IS VERY COSTLY (600-800 Rs).
- HAVE OWN ANALYTICAL LAB FOR QUALITY CONTROL.

PICTURE: MEETING WITH TEA BOARD OFFICIALS

PICTURE: HONORABLE MEMBER (R&D), BANGLADESH TEA BOARD (BTB) PRESENTING CREST ON BEHALF OF THE TEAM TO DIRECTOR GENERAL (DG) OF SRI LANKA TEA BOARD

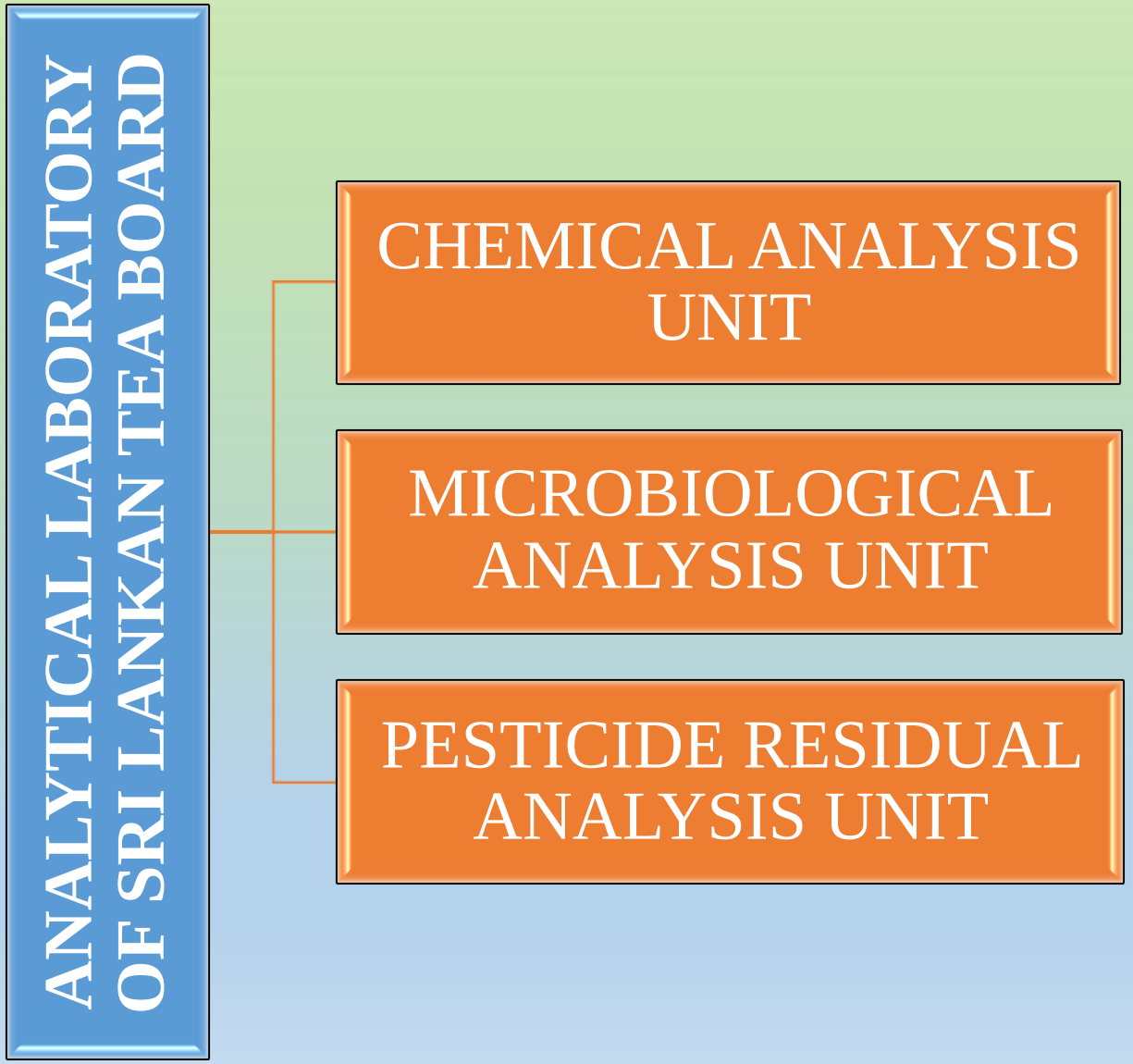
PICTURE: HONORABLE MEMBER (R&D), BTB PRESENTING BANGLADESHI TRADITIONAL SOUVENIR TO SRI LANKA TEA BOARD OFFICIALS (CONSULTANT-PROMOTION AND TEA COMMISSIONER)

PICTURE: GROUP PHOTO SESSION WITH SRI LANKA TEA BOARD HIGH OFFICIALS

ANALYTICAL LABORATORY OF SRI LANKA TEA BOARD

- TEA BOARD OF SRI LANKA HAS THEIR OWN LABORATORY FOR QUALITY CONTROL.
- ANALYTICAL LAB WAS AWARDED THE ISO 17025 ACCREDITATION BY SRI LANKA ACCREDITATION BOARD.
- LABORATORY RECEIVES SAMPLES THROUGH TWO CODING SYSTEM: INTERNAL MONITORING SERVICE (IMS) AND EXTERNAL CERTIFICATION SERVICE (ECS).
- ANALYTICAL LABORATORY CHARGE FEES OF 15000 SRs FOR EACH TEA SAMPLE.

PICTURE: DR. K. R. W. ABEYWICKRAMA, ACTING DIRECTOR, ANALYTICAL LABORATORY OF SLTB BRIEFING US ABOUT THE ACTIVITIES


ANALYTICAL LABORATORY OF SRI LANKAN TEA BOARD
CHEMICAL ANALYSIS UNIT
MICROBIOLOGICAL ANALYSIS UNIT
PESTICIDE RESIDUAL ANALYSIS UNIT

TEA BOARD LAB: CHEMICAL ANALYSIS UNIT

- CHEMICAL ASSESSMENT ON QUALITY OF TEA PRODUCED BEFORE AUCTION AND PRE-SHIPMENT.
- CHEMICAL ASSESSMENT AGAINST THE ESTABLISHED ISO 3720 STANDARDS. (IT INCLUDES THE PARAMETERS: TOTAL ASH, WATER SOLUBLE ASH, ALKALINITY, ACID INSOLUBLE ASH, WATER EXTRACT, MOISTURE AND CRUDE FIBER CONTENTS).
- ESTIMATION OF TEA DUST AND POWDER CONTENTS USING SIEVE ANALYSIS TECHNIQUE AND SILICEOUS MATTER CONTENT IN TEA.

TEA BOARD LAB: MICROBIOLOGICAL ANALYSIS UNIT

- TESTS ARE REQUIRED TO ENSURE THE QUALITY AND SAFETY OF FOOD PRODUCTS AS WELL AS ISO STANDARD.
- DETECT AND ENUMERATE *COLIFORM AND E. COLI.*
- TOTAL PLATE COUNT (TOTAL BACTERIA COUNT) AND YEAST & MOULD COUNTS.

TEA BOARD LAB: PESTICIDE RESIDUE ANALYSIS UNIT

DETECTS FOLLOWING PESTICIDE RESIDUES IN TEA SAMPLES

- MALATHION
- ETHION
- CYPERMETHRIN
- BROMOPROPYLATE
- BIFENTHRIN
- TETRADIFON
- ENDOSULFAN SULFATE
- BETA-ENDOSULFAN

LIST OF RECOMMENDED PLANT PROTECTION PRODUCT (PPPs)

NO	COMMON NAME (ACTIVE INGREDIENT)	TYPE	MAXIMUM RESIDUE LEVEL (MRL) FOR MADE TEA (PPM)	
			JAPAN	EU
1	COPPER HYDROXIDE	F	EXEMPTED	40 (AS CU)
2	COPPER OXIDE	F	EXEMPTED	40 (AS CU)
3	COPPER OXYCHLORIDE	F	EXEMPTED	40 (AS CU)
4	HEXACONAZOLE	F	0.05	0.05
5	PROPICONAZOLE	F	0.10	0.10
6	TEBUCONAZOLE	F	50	0.05
7	DIAZINON	I	0.10	0.05
8	FIPRONIL	I	0.002	0.005
9	SULFUR	A	EXEMPTED	EXEMPTED
10	METAM SODIUM	N	0.10	0.02
11	DIURON	W	1	0.05
12	MCPA	W	1	0.05
13	OXYFLUORFEN	W	-	0.05

F-FUNGICIDE; I-INSECTICIDE; A-ACARICIDE; N-NEMATICIDE; W-WEEDICIDE

PICTURE: VISITING ANALYTICAL LABORATORY OF SRI LANKA TEA BOARD

LEARNINGS FOR BANGLADESH TEA INDUSTRY FROM SLTB

- MECHANIZATION OF TEA INDUSTRY
  (SUCH AS: PLUCKING, PRUNING, PLANTING ETC.) TO MITIGATE THE LABOR SHORTAGE PROBLEM.
- MORE EMPHASIS ON IMPROVING THE CUP QUALITY OF OUR TEA.
- ESTABLISHING AN OWN ANALYTICAL LABORATORY IN BANGLADESH TEA BOARD FOR QUALITY CONTROL.
- INTRODUCTION OF TWO WAY SAMPLE RECEIVING TECHNIQUE (INTERNAL MONITORING SERVICE (IMS) AND EXTERNAL CERTIFICATION SERVICE (ECS) IN BTRI LAB FOR UNBIASED TESTING.
- INTRODUCTION OF UNIQUE CODE NUMBER (MEMO NUMBER/ BAR CODE GENERATED NUMBER), BY WHICH TEA BOARD CAN EASILY FIND FROM WHICH TEA GARDEN THAT TEA HAS COME.

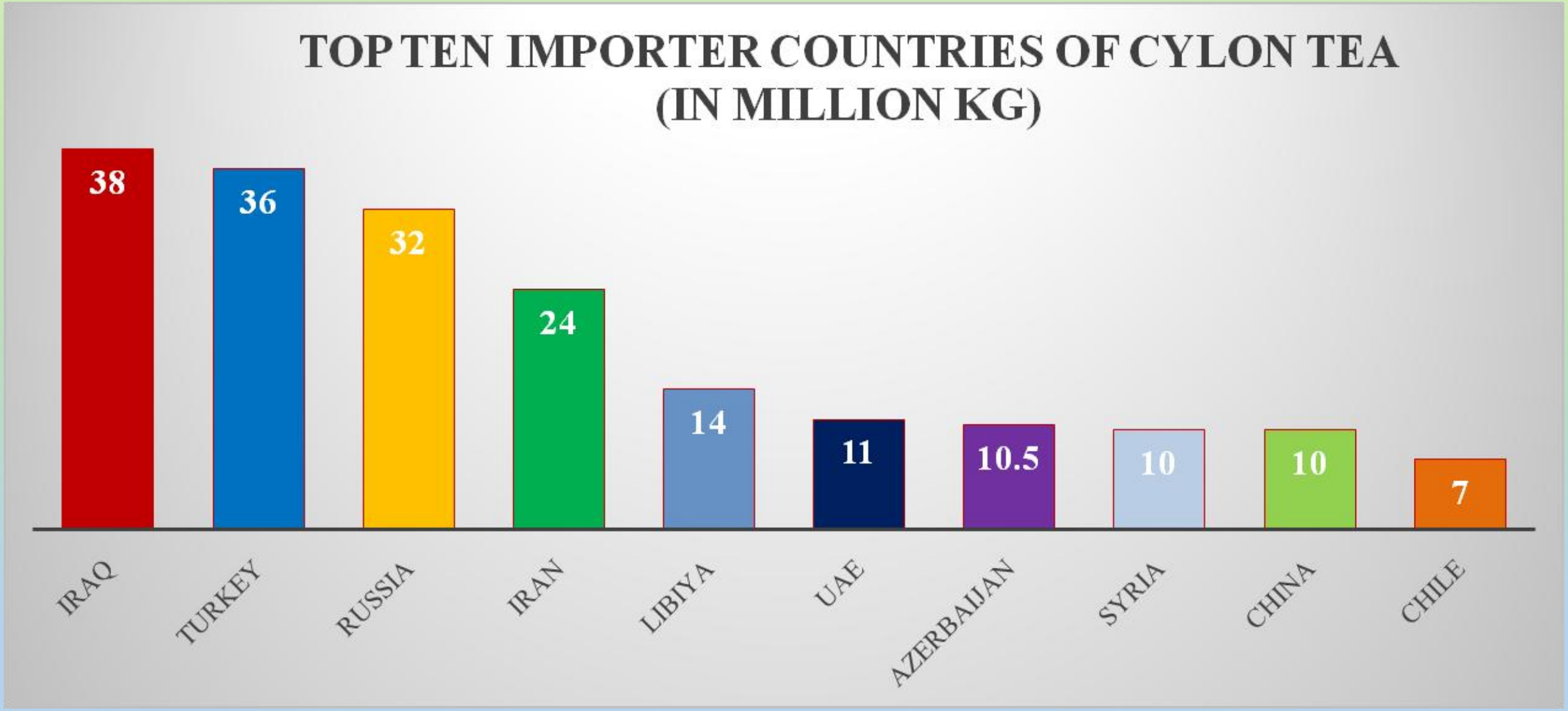
BROKERS HOUSE (FORBES AND WALKER TEA BROKERS PVT LTD.)

FORBES AND WALKER TEA BROKERS PVT LTD. WAS ESTABLISHED IN 1ST AUGUST 1881 BY JAMES FORBES AND CHAPMEN WALKER.

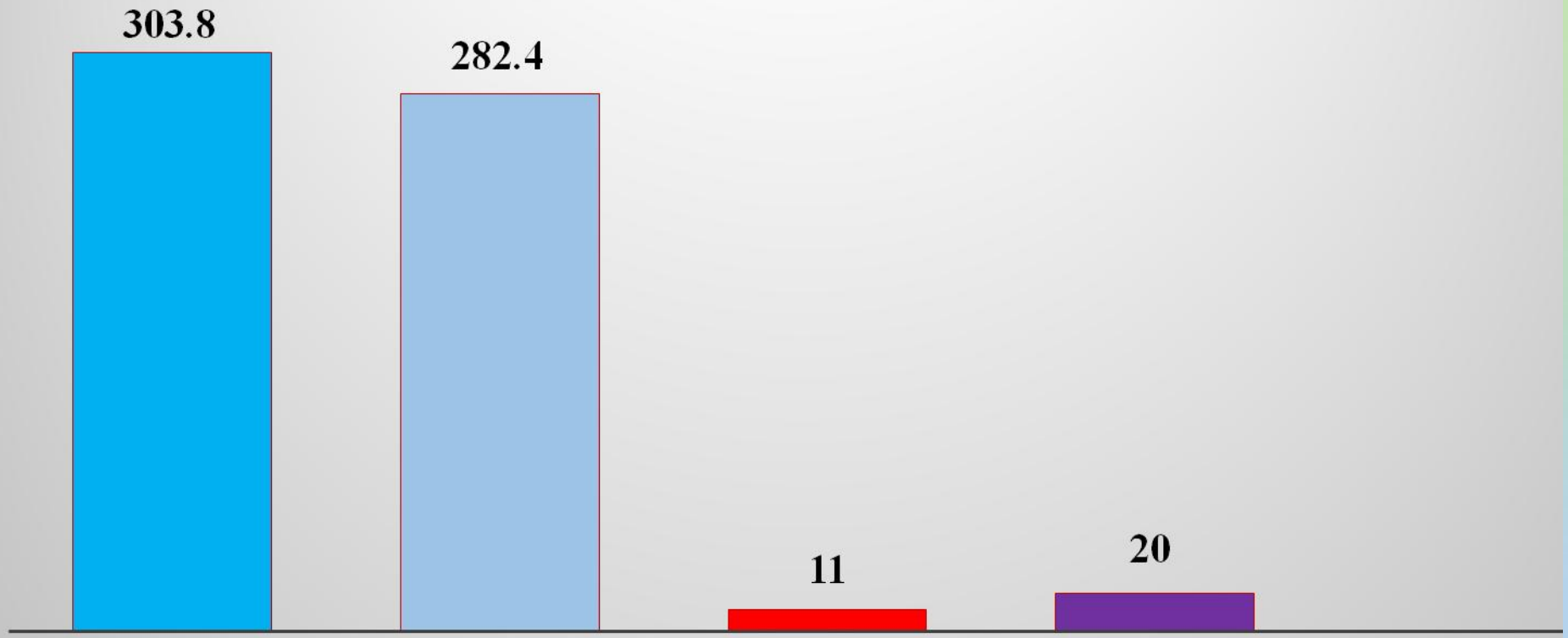
THERE ARE TOTAL 08 BROKER HOUSES IN SRI LANKA. AMONG THEM, FORBES AND WALKER TEA BROKERS PVT LTD. IS THE BIGGEST BROKER HOUSE.

YSHAN FERNANDO IS THE MANAGING DIRECTOR OF THIS BROKER HOUSE WHILE THEY HAVE FOUR OTHER DIRECTORS.

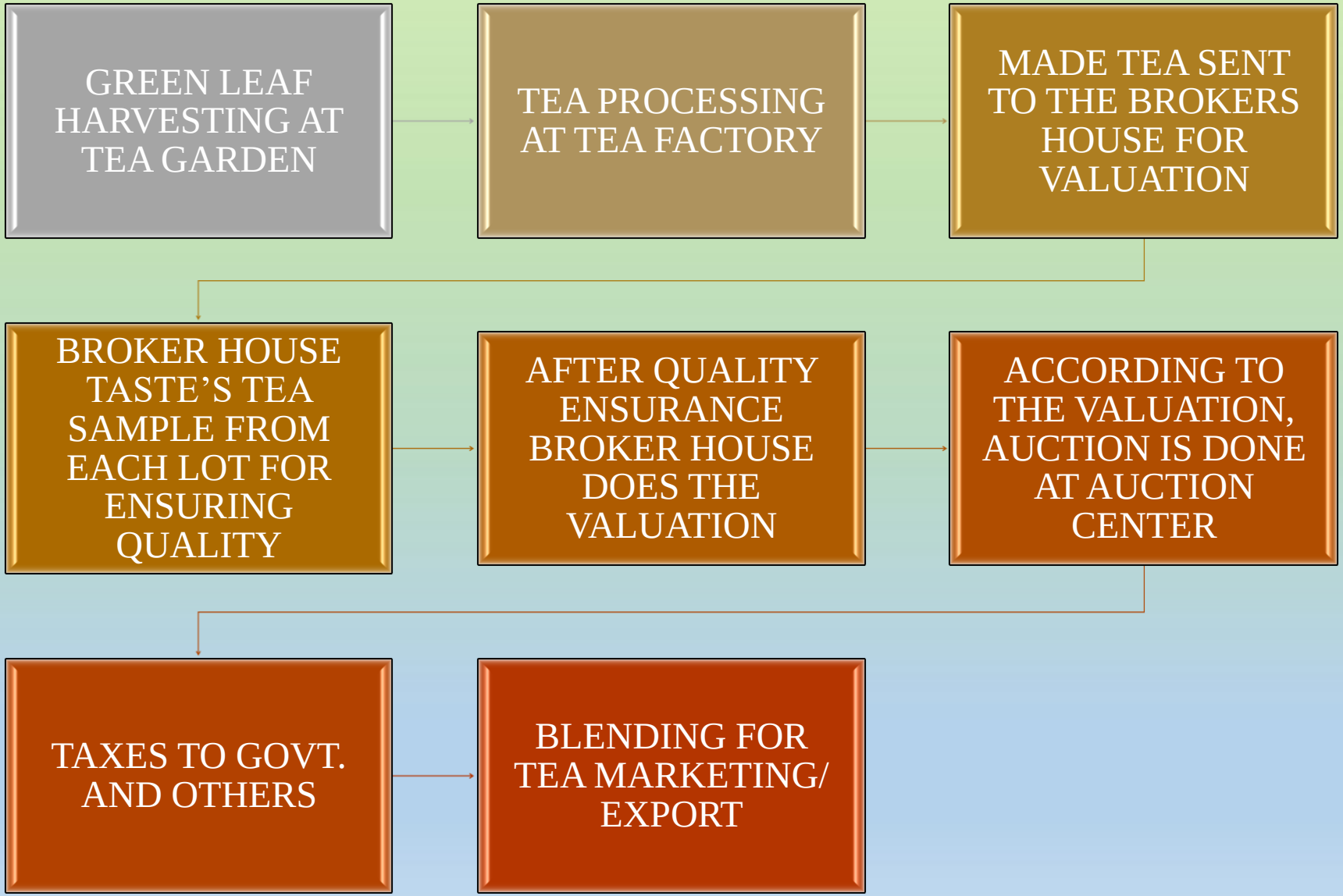
THEY HAVE EIGHT SENIOR TEA TASTER AND EACH YEAR THEY ALSO ARRANGE TRAININGS ON TEA TASTING FOR TEA TASTER.


TOP TEN IMPORTER COUNTRIES OF CYLON TEA
(IN MILLION KG)
38
36
32
24
14
11
10.5
10
10
7
IRAQ
TURKEY
RUSSIA
IRAN
LIBIYA
UAE
AZERBAIJAN
SYRIA
CHINA
CHILE

TEA SUMMERY OF SRI LANKA IN 2018 (IN MILLION KG)



TEA MARKETING STRATEGY OF SRI LANKA



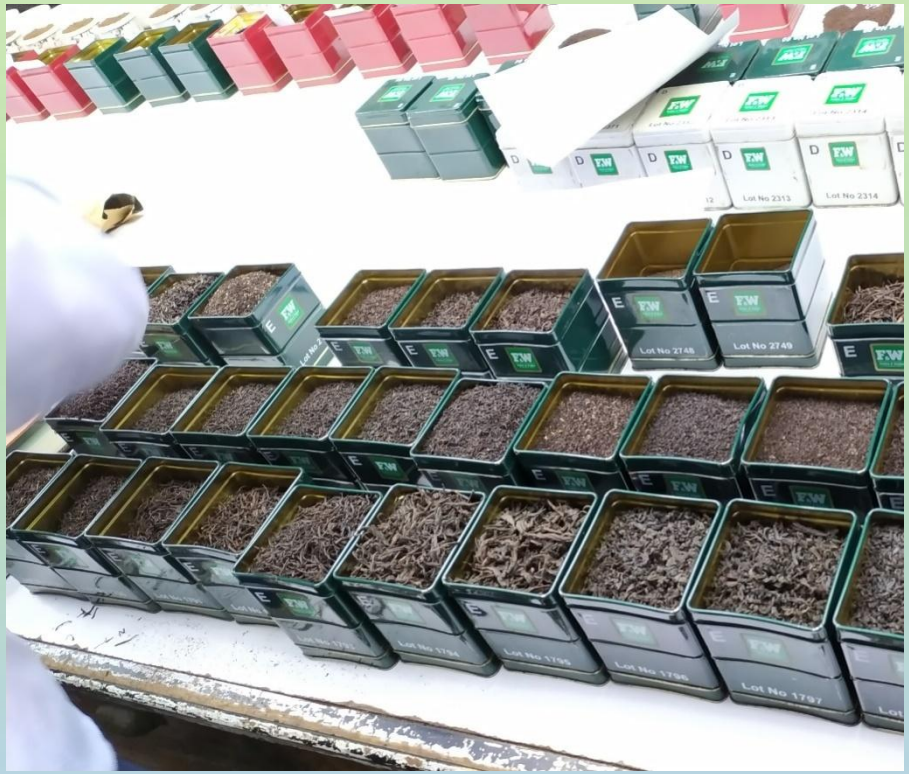
TEA TASTING TECHNIQUE FOLLOWED BY BROKER HOUSE

- TEA WAS CATEGORISED ACCORDING TO GROWN REGION (HIGH, MEDIUM AND LOW GROWN REGION).
- 2.5 GRAM DRY LEAF WAS TAKEN INTO A CUP.
- 150 ML DISTILLED BOILED WATER WAS POURED INTO THE CUP AND CUP WAS KEPT COVERED FOR FIVE MINUTES.
- LIQUID FROM THE CUP WAS POURED INTO ANOTHER FRESH CUP AND IT WAS READY FOR TASTING.
- TASTING WAS DONE UNDER FOUR PARAMETERS: DRY LEAF APPEARANCE, INFUSION COLOR, LIQUOR COLOR AND LIQUOR TASTE.
- VALUATION WAS DONE IN PRESENCE OF ONE TASTER FROM RESPECTIVE GARDEN AND ONE TASTER FROM BROKER HOUSE. FINAL OPINION WILL BE PRESENTED WITH THE CONSENSUS OF TWO TEA TASTER'S.

LEARNINGS FOR BANGLADESH TEA INDUSTRY FROM BROKER HOUSE

- EACH BROKER HOUSE SHOULD HAVE A GOOD NUMBER OF TEA TASTER.
- EACH BROKER HOUSE SHOULD ARRANGE EFFECTIVE TRAININGS ON TEA TASTING.
- VALUATION SHOULD BE DONE IN PRESENCE OF ONE REPRESENTATIVE TEA TASTER FROM RESPECTIVE GARDEN AND ONE TEA TASTER FROM BROKER HOUSE.

PICTURE: VISITING TEA TASTING ROOM AT FORBES AND WALKER TEA BROKERS (PVT) LTD.



PICTURE: DIFFERENT TEA SAMPLES FROM DIFFERENT REGIONS SENT FOR TASTING AT FORBES AND WALKER BROKERS (PVT) LTD.



PICTURE: BANGLADESH DELEGATE TEAM PARTICIPATING IN TEA TASTING SESSION

PICTURE: HONORABLE MEMBER (R&D), BANGLADESH TEA BOARD IS RECEIVING PUBLICATION FROM MR. SAMAN MUNASINGHE, DIRECTOR, FORBES AND WALKER TEA BROKERS (PVT) LTD.

Day 02

VISIT TO AUCTION CENTRE OF SRI LANKA AT CHAMBER OF COMMERCE

HISTORY OF AUCTION CENTRE OF SRI LANKA

1839

- CEYLON CHAMBER OF COMMERCE WAS ESTABLISHED.

1883

- FIRST TEA AUCTION WITH FIVE INVOICE OF TEA.

1894

- THE COLOMBO TEA TRADERS ASSOCIATION WAS FORMED DUE TO TEA TRADE.

AUCTION CENTRE OF SRI LANKA

- TWO TEA AUCTION ROOM IN AUCTION CENTER AT CHAMBER OF COMMERCE.
- AUCTION OCCURS ONCE A WEEK ON EVERY TUESDAY IN EACH ROOM.
- FULL FORMAL DRESS CODE IS REQUIRED TO ENTER THE AUCTION ROOM.
- AUCTION ROOM IS JUST LIKE A PARLIAMENT SESSION ROOM.
- THREE REPRESENTATIVE IS PRESENT IN THE AUCTION ROOM. ONE IS ANNOUNCING THE VALUE AND OTHER TWO ARE TAKING NOTES.
- DIGITTAL CODE GENERATION FOR EACH LOT OF TEA DESCRIBING ORIGIN, TYPE ETC.

PICTURE: PARLIAMENT SESSION LIKE AUCTION CENTER AT CEYLON CHAMBER OF COMMERCE, SRI LANKA

LEARNINGS FOR BANGLADESH TEA INDUSTRY FROM SRI LANKA AUCTION CENTER

- PARLIAMENT SESSION ROOM LIKE WELL ORGANIZED AUCTION CENTER COULD BE ESTABLISHED.
- FULL FORMAL DRESS CODE SHOULD BE FOLLOWED.
- DIGITAL CODE GENERATION SHOULD BE INTRODUCED TO HELP BUYERS KNOW ABOUT THE INFORMATION OF MADE TEA.
- MINIMUM TWO ROOM IS REQUIRED IN AUCTION CENTER TO BOOST UP THE AUCTION PROCESS.

PICTURE: BANGLADESH DELEGATES IN FRONT OF CEYLON CHAMBER OF COMMERCE

DAY 03-04

VISIT TO

TEA RESEARCH INSTITUTE OF SRI LANKA (TRISL)

AT TALAWAKELLE

PICTURE: BANGLADESH DELEGATES WELCOMED BY CHAIRMAN AND DIRECTOR OF TRI SRI LANKA

INTRODUCTION TO TEA RESEARCH INSTITUTE OF SRI LANKA (TRISL)

WE HAD A FORMAL MEETING IN THEIR "BOARD MEETING ROOM".

THIS MEETING WAS COORDINATED BY DR. L.S.K. HETTIARACHCHI, DIRECTOR, TRI SRI LANKA.

THE CHAIRMAN OF THE BOARD DR. MOHAN ABEYRATNE; THE DIRECTOR; BANGLADESH DELEGATE TEAM AS WELL AS THEIR SCIENTISTS AND OTHER HIGH OFFICIALS WERE PRESENT AT THE MEETING.

PICTURE: FORMAL MEETING AT TRI BOARD MEETING ROOM

PICTURE: DR. L.S.K. HETTIARACHCHI, DIRECTOR, BRIEFING US ABOUT THE OVERALL ACTIVITIES OF TRI SRI LANKA AT TRI BOARD MEETING ROOM

ESTABLISHMENT OF TRI SRI LANKA

THE TEA RESEARCH INSTITUTE OF SRI LANKA WAS ESTABLISHED IN THE YEAR 1925 IN LINFIELD, NUWARA ELIYA.

IT WAS LATER ON MOVED TO ST. COOMBS IN 1928. IT IS SITUATED IN TALAWAKELLE DISTRICT IN SRI LANKA. THIS IS THE SECOND OLDEST TEA RESEARCH INSTITUTE IN THE WORLD.

MOSTLY ALL TYPES OF TECHNICAL GUIDANCE IS GIVEN FROM TRI TO THE SMALL HOLDING CULTIVARS AS WELL THE EXTENSION WORKERS AND RELATED PERSONNEL. THEY ALSO TRAIN THE TRAINER'S IN "SMALL HOLDING DEVELOPMENT AUTHORITIES".

REGIONAL EXTENSION CENTERS OF TRI SRI LANKA

REGIONAL/EXTENSION CENTERS	ESTABLISHMENT YEAR
UVA	1931
GALLE	1960
MID COUNTRY	1961
LOW COUNTRY	1963
DENIYAYA	1981
KALUTHARA	2010

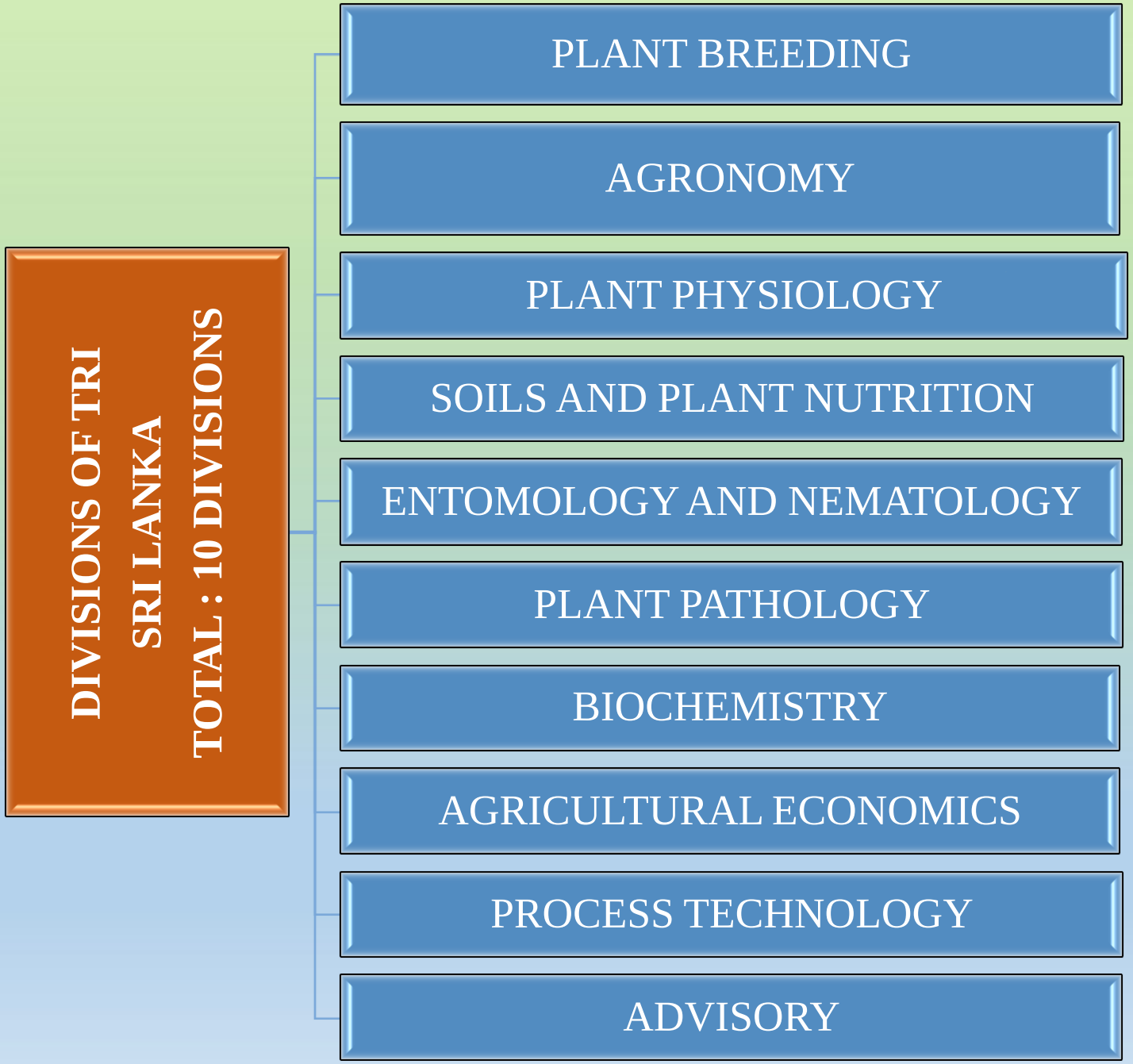
TEA ESTATES OWNED BY TRI SRI LANKA

ST. COOMBS ESTATE

TRI PURCHASED THE ESTATE IN 1928. THE FACTORY WAS BUILT IN 1929. THE FACTORY HAS A CAPACITY OF PRODUCING 8,000 KG GREEN LEAF/DAY (2.5 KG/FT2). THE YIELD OF THIS ESTATE IS 2300 KG/HA/YR.

ST. JOACHIM ESTATE

IT WAS NAMED AFTER JOACHIM WHO WAS THE FATHER OF THE SOIL SCIENCE IN SRI LANKA. THIS FACTORY HAS A CAPACITY OF PRODUCING 15,000 KG GREEN LEAF/DAY (4.7 KG/FT^2). THE YIELD OF THIS ESTATE IS 4500 KG/HA/YR.


DIVISIONS OF TRI
SRI LANKA
TOTAL : 10 DIVISIONS
PLANT BREEDING
AGRONOMY
PLANT PHYSIOLOGY
SOILS AND PLANT NUTRITION
ENTOMOLOGY AND NEMATOLOGY
PLANT PATHOLOGY
BIOCHEMISTRY
AGRICULTURAL ECONOMICS
PROCESS TECHNOLOGY
ADVISORY

PRIORITY RESEARCH AREAS OF TRI SRI LANKA

- DEVELOPMENT OF NEW TEA VARIETIES
- IMPACTS OF CLIMATE CHANGE ADAPTATION AND MITIGATION
- MECHANIZATION OF FIELD PRACTICES
- TEA PEST AND DISEASE MANAGEMENT
- DEVELOPMENT OF METHODS TO ENHANCE MADE TEA QUALITY AND VALUE ADDITION

RESEARCH COLLABORATION

TRI SRI LANKA HAS SEVERAL NUMBER OF INTERNATIONAL AND NATIONAL RESEARCH COLLABORATION

UNIVERSITY OF MICHIGAN, USA

CHINA

NFRI, NARO, SLINTEC, SRI LANKA ATOMIC ENERGY BOARD ETC.

PICTURE: BANGLADESH DELEGATE TEAM PRESENTING POWER POINT PRESENTATION ON OVERALL ACTIVITIES OF BANGLADESH TEA BOARD AND BANGLADESH TEA INDUSTRY.

PICTURE: GROUP PHOTO SESSION OF BANGLADESH TEA BOARD DELEGATES WITH TRI CHAIRMAN, DIRECTOR, SCIENTISTS AND OTHER HIGH OFFICIALS

WHAT WE HAVE LEARNED FROM THE MEETING

HIGH YIELDING VARIETIES

- TRI PLANT BREEDING DIVISION DEVELOPED SOME SEED VARIETIES. AVERAGE YIELD OF THESE DEVELOPED VARIETIES ARE MORE THAN 4500-5000 KG/HA.

USE OF NANO FERTILIZER

- THEY ARE WORKING ON THE DEVELOPMENT OF SLOW RELEASED NANO BASED FERTILIZER SYSTEM WHICH WOULD LIKELY TO REPLACE NUMBER OF FERTILIZER APPLICATION SPLITS.

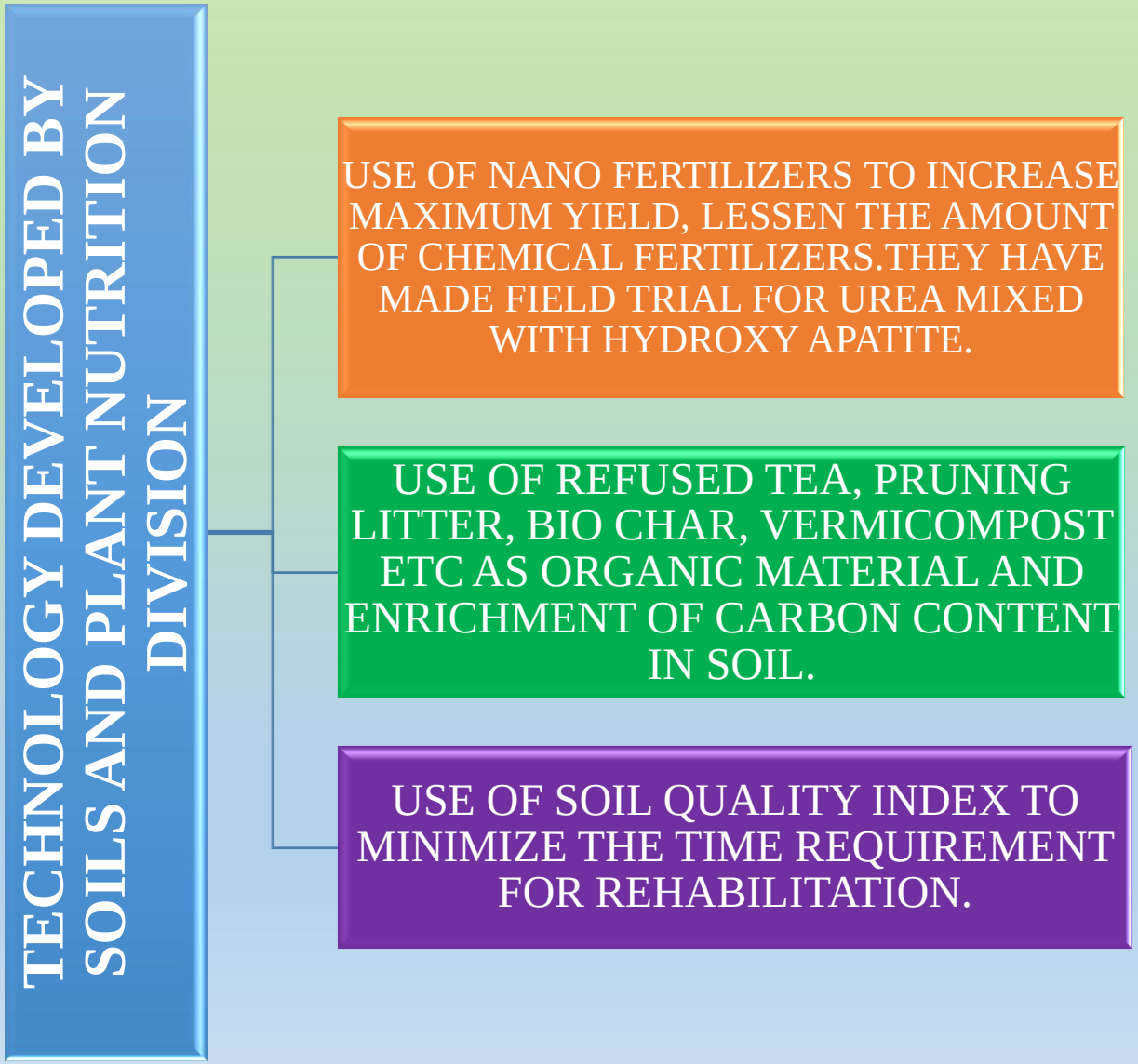
PEST AND DISEASE CONTROL MEASUREMENT

- INTEGRATED PEST AND DISEASE MANAGEMENT SYSTEM (IPM) IS FOLLOWED.

TOLERANT VARIETIES

- THEY HAVE DEVELOPED SOME DROUGHT AND DISEASE TOLERANT VARIETIES.

ACTIVITIES OF SOILS AND PLANT NUTRITION DIVISION, TRI



PICTURE: DR. G. P. GUNARATNE, DIVISIONAL HEAD OF SOILS AND PLANT NUTITION DIVISION, TRI BRIEFING US ABOUT THE BENEFITS OF NANO FERTILIZERS IN TEA

PICTURE: CHEMICAL ANALYSIS LABORATORY OF SOILS AND PLANT NUTRITION DIVISION, TRI

TECHNOLOGY THAT WE MAY USE FROM SOILS AND PLANT NUTRITION DIVISION, TRI

- IN BANGLADESH IMPLEMENTATION OF NANO FERTILIZERS IN CASE OF TEA HAS NOT BEEN IMPOSED AND DEVELOPED YET. WE CAN DO RESEARCH ON THIS TECHNOLOGY AND DEVELOP A NEW SYSTEM FOR NANO FERTILIZER APPLICATION.
- USE OF REFUSED TEA AS ORGANIC FERTILIZER IS BEING PRACTICED IN ALL OVER SRI LANKA. IN BANGLADESH, REFUSED TEA IS BEING DESTROYED. BY USING REFUSED TEA AS FERTILIZER, WE WILL BE ABLE TO REDUCE TEA WASTE PRODUCTION, RECYCLE THE WASTE AND LESS CHEMICAL FERTILIZER APPLICATION.
- SOIL QUALITY INDEX IS NOT COMPLETELY FOLLOWED IN OUR COUNTRY DURING REHABILITATION. SO WE CAN USE THIS.

ACTIVITIES OF ENTOMOLOGY AND NEMATOLOGY DIVISION, TRI

- MOSTLY DEALS WITH INSECTS AND PESTS OF TEA.
- INSECT AND PEST INFESTATION VARIES DEPENDING ON THE COUNTRY AS WELL AS CLIMATIC CONDITIONS. IN HIGH COUNTRY AREAS INFESTATION IS LESS BECAUSE OF THE CLIMATIC CONDITION.
- TWO MAJOR PEST IN SRI LANKA IS SHOT WHOLE BORER AND LIVE WOOD TERMITE.
- SHOT HOLE BORER IS THE MAJOR PEST IN SRI LANKA. IN HIGH COUNTRY AREAS, THIS PROBLEM IS LESS BUT IN LOW COUNTRY AREAS THEY CREATE PROBLEMS. THEY MOSTLY CREATE HOLLOW OR BORES INSIDE THE BRANCHES AND DESTROYS THE PLANT.
- IN SRI LANKA, USES OF CHEMICAL PESTICIDES OR INSECTICIDES IS STRICTLY RESTRICTED IN MOST CASES.
- THEY ONLY DEPEND ON PHYSICAL METHODS (IPM) OR CULTURAL PRACTICES TO ERADICATE INSECT OR PEST PROBLEMS.

PICTURE: DR. (MS) RDPD SENANAYAKE, DIVISIONAL HEAD OF ENTOMOLOGY AND NEMATOLOGY DIVISION, TRI INTRODUCING US TO DIFEERENT INSECTS AND PESTS OF SRI LANKA

PICTURE: SHOT HOLE BORER

PICTURE: LIVE WOOD TERMITE

PICTURE: NETTLE GRUB

PICTURE: TEA TORTRIX

LEARNINGS FOR BANGLADESH TEA INDUSTRY FROM ENTOMOLOGY AND NEMATOLOGY DIVISION, TRI

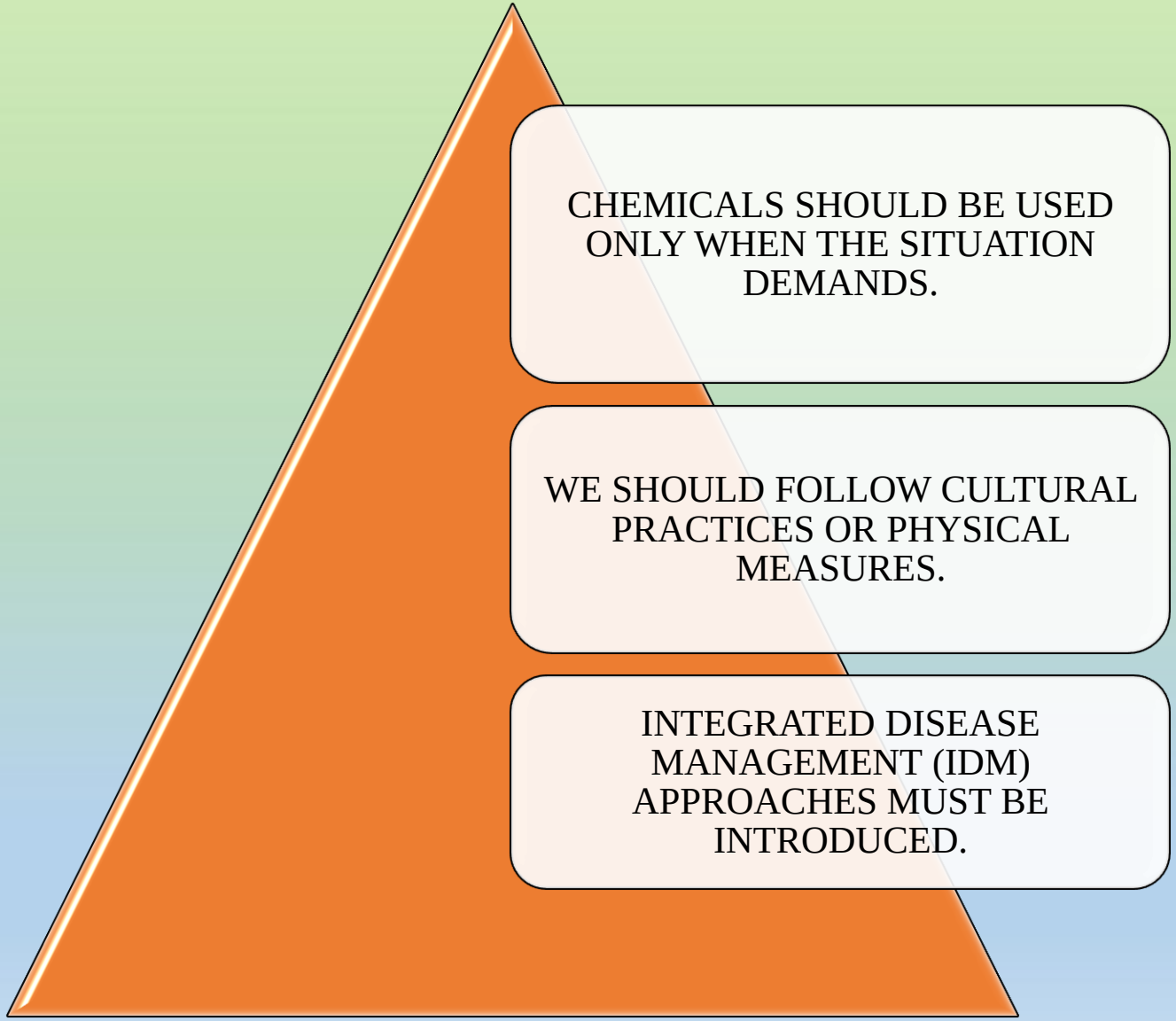
- MORE THAN 160 CHEMICALS ARE USED IN BANGLADESH WHICH SHOULD BE CONTROLLED.
- DEPENDENCE ON CHEMICALS SHOULD BE CONTROLLED AND MORE EMPASIZE SHOULD BE GIVEN ON CULTURAL PRACTICES.
- INTEGRATED PEST MANAGEMENT (IPM) AND ENVIRONMENT FRIENDLY PEST CONTROL APPROACHES MUST BE IMPLEMENTED.

ACTIVITIES OF PLANT PATHOLOGY DIVISION, TRI

- DEALS WITH DISEASES OF TEA PLANTS.
- IN SRI LANKA, BLISTER BLIGHT AND RED ROOT IS THE MAJOR DISEASE.
- FOLLOWING AGRONOMIC PRACTICES LIKE SANITATION AND SHADE TREE MANAGEMENT, THEY CONTROL BLISTER BLIGHT DISEASES MOSTLY.
- IN CONTROLLING RED ROOT DISEASE, UPROOTING OF AFFECTED TEA PLANT AND REPLANTING METHOD IS FOLLOWED.
- NO CHEMICALS ARE USED IN ANY STAGE OF DISEASE CONTROL.

PICTURE: DR. (MS) N H L PRADEEPA, DIVISIONAL HEAD OF PLANT PATHOLOGY DIVISION, TRI INTRODUCING US TO DIFEERENT TEA DISEASES OF SRI LANKA

LEARNINGS FOR BANGLADESH TEA INDUSTRY FROM PLANT PATHOLOGY DIVISION, TRI



ACTIVITIES OF AGRICULTURAL ECONOMICS DIVISION, TRI

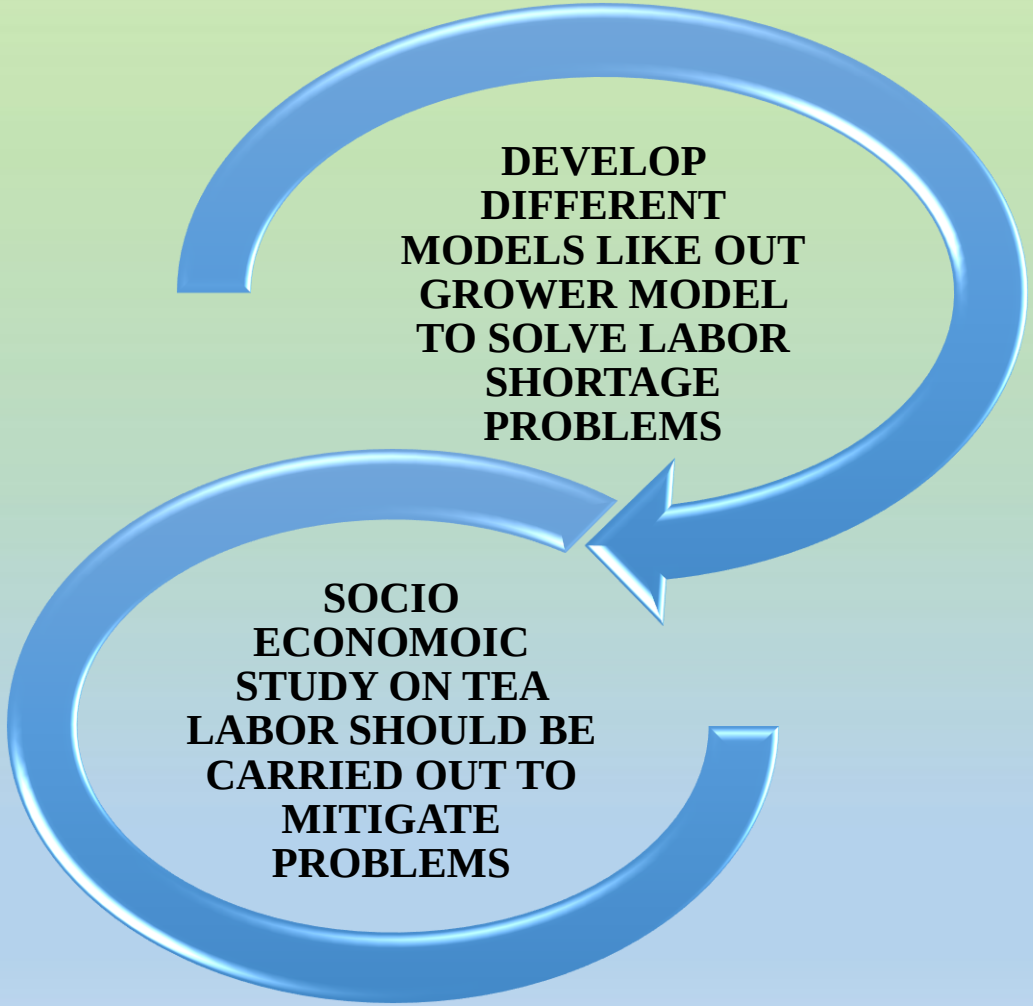
BASICALLY ENGAGED IN RESEARCH AND INNOVATION BASED ON AGRICULTURAL ECONOMICS, STATISTICS AND MARKET RESEARCH.

STATISTICAL DATA ARE MOSTLY GENERATED BY SRI LANKA TEA BOARD AND ANNUAL REPORT OF CENTRAL BANK.

WORKS TO IDENTIFY LABOR SHORATGE PROBLEM (GROWER OPERATIONAL MODEL), DEVELOP RESEARCH EXPERIMENTAL MODELS, MARKETING MODELS, RECOVERY PERCENTAGE, COP ETC.

PICTURE: DISCUSSION SESSION GOING ON WITH DR. (MS) H W SHYAMALIE IN AGRICULTURAL ECONOMICS DIVISION, TRI

TECHNOLOGY THAT WE MAY USE FROM AGRICULTURAL ECONOMICS DIVISION, TRI



ACTIVITIES OF PLANT BREEDING DIVISION, TRI

- THEY MOSTLY DEVELOP NEW VARIETY THROUGH MASS SELECTION, CROSS POLLINATION AND OTHER CONVENTIONAL METHODS.
- DEVELOPED 68 DIFFERENT CULTIVARS SUCH AS TRI 2000 (1950), TRI 5000 (2019) ETC. OUT OF THIS 68, SOME ARE FROM SELECTION AND SOME ARE HYBRID.
- THEY MOSTLY FOLLOW THREE PHASE SELECTION PROCEDURE.
- PHASE 1: REPLICATION STAGE. TWO REPLICATES ARE MOSTLY USED
- PHASE 2: NUMBER OF REPLICATES ARE INCREASED. RCBD DESIGN IS FOLLOWED.
- PHASE 3: TRIALS ARE CARRIED OUT ON A LARGE SCALE IN DIFFERENT COMMERCIAL TEA GARDENS

ACTIVITIES OF PLANT BREEDING DIVISION, TRI

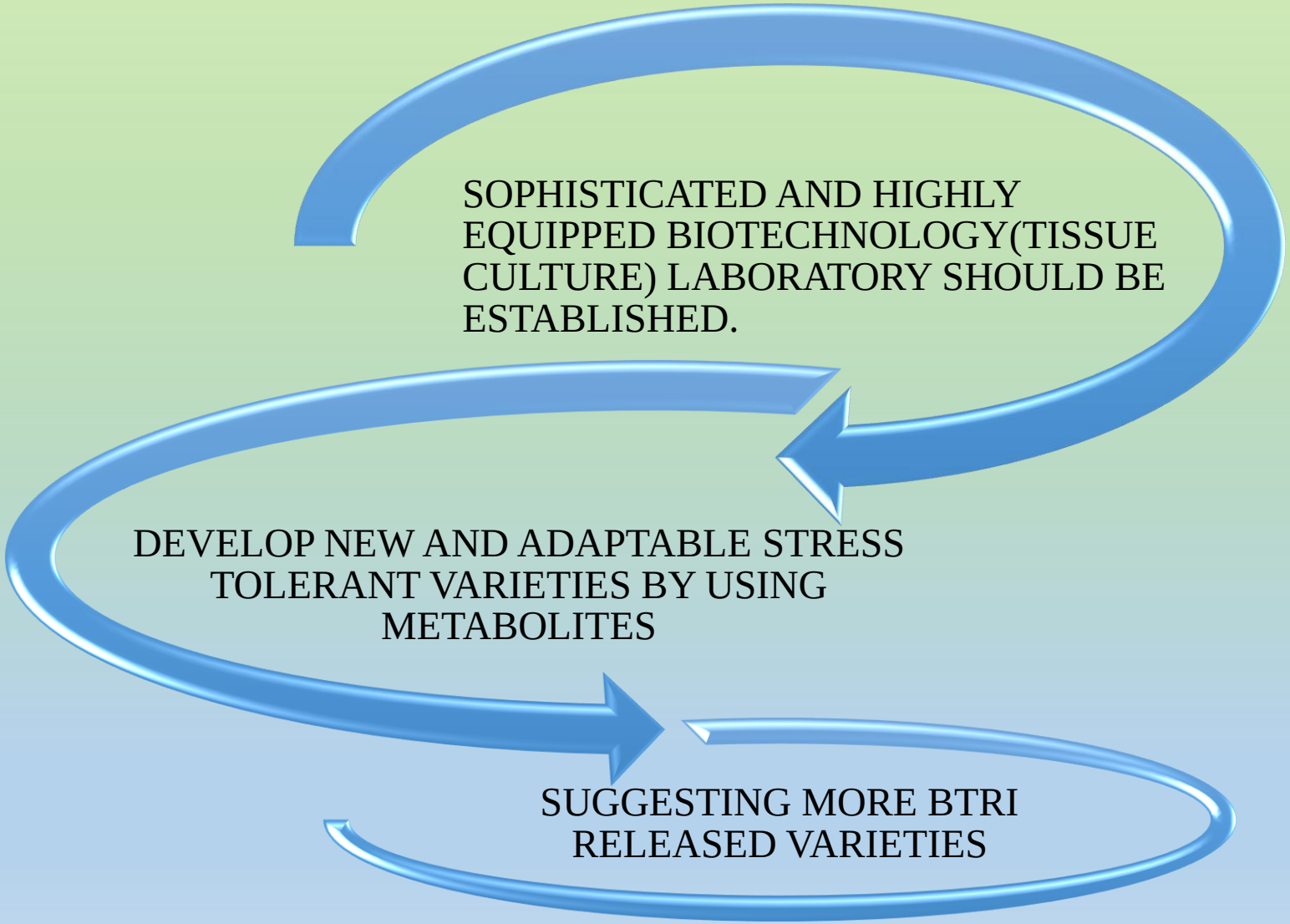
- MOSTLY RECOMMENDS VP CULTIVARS BECAUSE THEIR PRODUCTION RATE IS VERY HIGH. THEY DON'T RECOMMEND ANY SEEDLING VARIETIES OR 50:50 RATIO.
- THEY HAVE DEVELOPED ONE TETRAPLOYED CULTIVAR USING COLCICHINE TREATMENT. THEY HAVE RECENTLY STARTED "GAMMA ERADIATION TECHNOLOGY" TO DEVELOP NEW VARIETIES AS WELL.
- IN CASE OF PRODUCING PEST AND DISEASE FREE VARIETIES, METABOLITES' PROFILING STUDY IS MOSTLY USED. THEY ALSO HAVE AN ADVANCED TISSUE CULTURE LABORATORY.
- THEY USE TISSUE CULTURE TECHNOLOGY FOR RAPID GENERATION OF TEA.

PICTURE: DR. M A B RANATUNGA BRIEFING US ABOUT THE ACTIVITIES OF PLANT BREEDING DIVISION, TRI

PICTURE: BTB OFFICIALS VISITING BIO TECHNOLOGY LAB (TISSUE CULTURE) OF PLANT BREEDING DIVISION, TRI

PICTURE: TISSUE CULTURE TECHNIQUE FOR MASS REGENERATION

TECHNOLOGY THAT WE MAY USE FROM PLANT BREEDING DIVISION, TRI

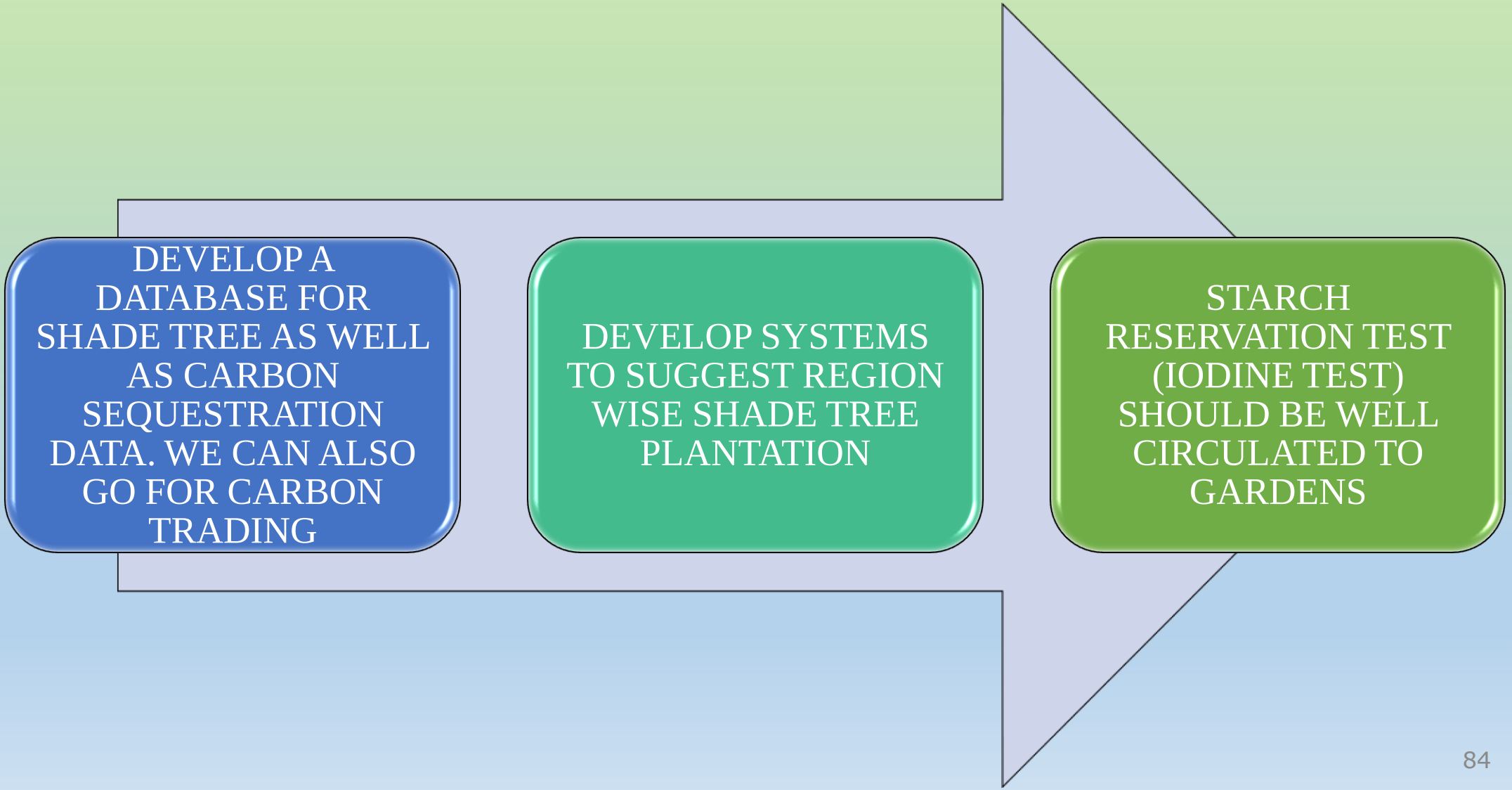


ACTIVITIES OF PLANT PHYSIOLOGY DIVISION, TRI

- MOSTLY DEALS WITH PHYSIOLOGICAL ASPECTS OF TEA PLANTS.
- PROVIDES CARBON SEQUESTRATION DATA, SHADE TREE DATA AND DROUGHT PHYSIOLOGICAL DATA.
- ALSO SUGGEST SELECTIVE SHADE TREES BASED ON REGIONAL CLIMATIC CONDITIONS.
- DEVELOPED STARCH RESERVATION TEST BY USING IODINE TO DETERMINE STORAGE FOOD IN ROOT ZONE OF THE PLANTS PRIOR TO PRUNNING OPERATION.

PICTURE: DR. (MS) T L WIJERATNE BRIEFING US ABOUT THE ACTIVITIES OF PLANT PHYSIOLOGY DIVISION, TRI

TECHNOLOGY THAT WE MAY USE FROM PLANT PHYSIOLOGY DIVISION, TRI

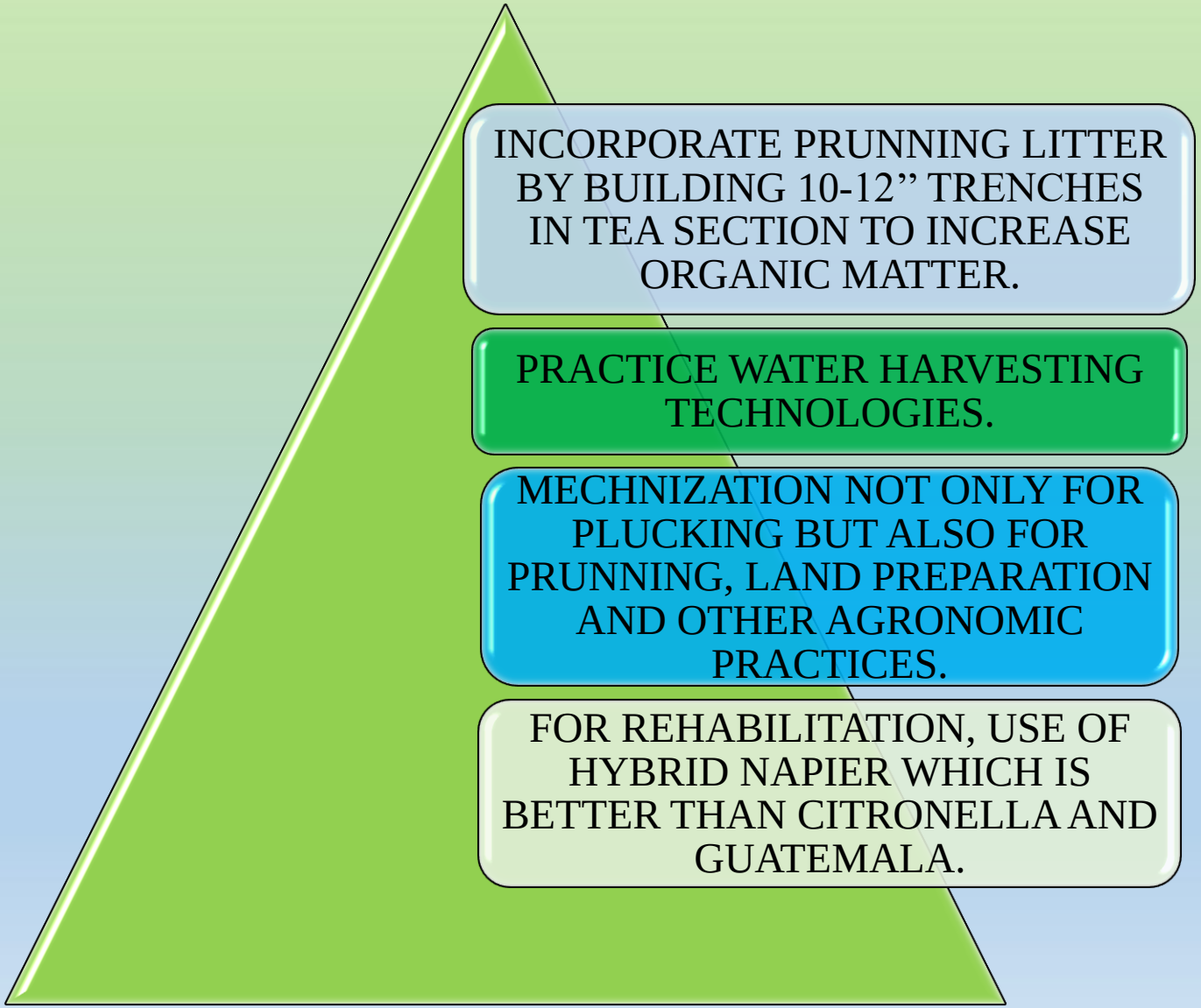


ACTIVITIES OF AGRONOMY DIVISION, TRI

- DEVELOPED MECHANIZED SYSTEM FOR HARVESTING, PRUNING AND LAND MANAGEMENT PRACTICES.
- FOLLOWS SOIL QUALITY INDEX TO DETERMINE ORGANIC CARBON CONTENT IN SOIL AND USE HYBRID NAPIER FOR REHABILITATION.
- USING WATER HARVESTING TECHNOLOGIES FOR DROUGHT PRONE AREAS.
- DIFFERENT MANAGEMENT PRACTICES ADAPTING TO CLIMATE CHANGE SUCH AS SHADE TREE MANAGEMNT, NURSERY MANAGEMENT ETC. FOR SUSTAINABLE PRODUCTION.
- DEVELOPED DIFFERENT PRUNNING MODELS FOR DIFFERENT REGIONS.
- INCREASE ORGANIC MATTER BY INCORPORATING PRUNNING LITTER AND DEBRIS IN SOIL BY BUILDING 10-12” TRENCHES IN TEA SECTION.

PICTURE: DISCUSSION WITH DR. M A WIJERATNE ABOUT DIFFERENT AGRONOMICAL PRACTICES DEVELOPED BY AGRONOMY DIVISION, TRI

TECHNOLOGY THAT WE MAY USE FROM AGRONOMY DIVISION, TRI



ACTIVITIES OF ADVISORY DIVISION, TRI

- PROVIDES ALL SORTS OF ADVISORY SERVICES STARTING FROM TECHNOLOGY TRANSFER TO TRAINING OF FIELD INSPECTORS.
- RENDER THEIR SERVICES IN TWO SECTORS MOSTLY IN TERMS OF SIZE- **1)** PLANTATION AND **2)** SMALL HOLDERS. THEY ALSO HANDLES THE EXTENSION OF SMALL HOLDERS AS WELL.
- PROVIDE TRAINING AS WELL AS GENERATE AND TRANSFER TECHNOLOGIES FOR INSPECTORS WHICH IS LATER ON SHARED TO THE FARMERS.
- THEY GET THEIR FEEDBACK FROM EXPERIMENTAL FORUMS. THERE ARE MORE THAN ABOUT 1200 SMALL HOLDER'S SOCIETY IN EACH DISTRICT.

PICTURE: EXPERIENCE EXCHANGE MEETING WITH DR. V S SIDHAKARAN, HEAD OF ADVISORY DIVISION, TRI

TECHNOLOGY THAT WE MAY USE FROM ADVISORY DIVISION, TRI

- START AN ADVISORY DIVISION.
- DEVELOP SOCIETIES FOR SMALL SCALE TEA CULTIVATORS IN SMALL SCALE TEA GROWING REGIONS.
- WE CAN ALSO RECRUIT AND TRAIN FIELD LEVEL INSPECTORS WHO WILL WORK FOR THE DEVELOPMENT OF SMALL SCALE FARMERS. UNEMPLOYED YOUTHS CAN BE USED FOR THIS PURPOSE.
- CREATE AN INFORMATION LEARNING CENTER FOR VISITORS AS WELL AS MASS PEOPLE.

PICTURE: BANGLADESH DELEGATE TEAM VISITING TRI INFORMATION CENTER

PICTURE: INFORMATION CENTER OF TRI SRI LANKA

PICTURE: TRI AUDITORIUM USED FOR TRAINING PURPOSE

PICTURE: GROUP PHOTO SESSION WITH ADVISORY DIVISION AT TRI INFORMATION CENTER

PICTURE: HONORABLE MEMBER (RESEARCH AND DEVELOPMENT), BANGLADESH TEA BOARD IS SIGNING ON THE VISITING BOOK OF THE INFORMATION CENTER IN TRI SRI LANKA

RESEARCH COLLABORATION WITH TEA RESEARCH INSTITUTE OF SRI LANKA

AFTER DIVISIONAL VISIT, CLOSING MEETING WAS HELD AT TRI BOARD MEETING ROOM.

ON THAT MEETING, RESEARCH COLLABORATION INTEREST BETWEEN BANGLADESH TEA RESEARCH INSTITUTE AND SRILANKA TEA RESEARCH INSTITUTE WAS PROPOSED.

BOTH TEAM AGREED TO PERFORM COLLABORATE RESEARCH IN 05 CORE RESEARCH AREAS.

PROPSED RESEARCH COLLABORATION AREAS BETWEEN TRI SRI LANKA AND BANGLADESH TEA RESEARCH INSTITUTE

- **PLANT BREEDING** - EXCHANGE OF GERMPLASM AND DEVELOPMENT OF BREEDING STRATEGIES AND TECHNIQUES.
- **AGRONOMY** - SUSTAINABLE AGRICULTURE BY ADAPTING TO CLIMATE CHANGE ISSUES.
- **SOIL AND FERTILITY MANAGEMENT** - FERTILITY MANAGEMENT BY DEVELOPING NANO FERTILIZER TECHNOLOGY.
- **BIOCHEMISTRY** - DIVERSIFICATION OF TEA BY VALUE ADDITION AND DEVELOPING DIFFERENT TEA PRODUCTS.
- **TEA PROCESSING** - IMPROVEMENT OF CONVENTIONAL TEA PROCESSING METHODS BY FOLLOWING FACTORY HYGIENE AND QUALITY CONTROL PROTOCOLS.

PICTURE: EXPRESSING INTERESTED AREAS OF RESEARCH COLLABORATION WITH TRI SRI LANKA

PICTURE: HONORABLE MEMBER (R&D) AND DIRECTOR, PDU, BTB RECEIVING SOUVENIR FROM HONORABLE CHAIRMAN, TRI SRI LANKA

PICTURE: HONORABLE MEMBER (R&D), BTB PRESENTING CREST AND TRADITIONAL SOUVENIR TO HONORABLE CHAIRMAN, TRI SRI LANKA

PICTURE: HONORABLE MEMBER (R&D), BTB PRESENTING CREST AND TRADITIONAL SOUVENIR TO HONORABLE DIRECTOR, TRI SRI LANKA

PICTURE: DIRECTOR (PDU), BTB PRESENTING TRADITIONAL SOUVENIR TO DR. KM MOHOTTI (DD-RESEARCH) AND DR. B A D SAMANSIRI (DD-EXTENSION)

SURROUNDING GARDEN VISIT AT TEA RESEARCH INSTITUTE OF SRI LANKA(TRISL)

KEY OBSERVATION ON SURROUNDED GARDENS OF TEA RESEARCH INSTITUTE OF SRI LANKA (TRISL)

TEA CULTIVATION IN ROCKY SOIL

LOWER/ MINIMUM VACANCY IN TEA GARDEN

HIGHLY COMPACT SECTION WITH 100% INFILLING ROUND THE YEAR

WELL PLANNED PLANTATION STRATEGY

PICTURE: TEA CULTIVATION IN ROCKY SOIL

PICTURE: WELL PLANNED PLANTATION STRATEGY WITH 100% INFILLING

PICTURE: LOWER/ MINIMUM VACANCY IN TEA GARDEN

PICTURE: SURROUNDING TEA GARDEN OBSERVATION AT TRISL BY HONORABLE MEMBER (R&D), BTB

PICTURE: SURROUNDING TEA GARDEN OBSERVATION AT TRISL BY DIRECTOR, PDU (BTB)

PICTURE: SURROUNDING TEA GARDEN OBSERVATION BY BTB OFFICIALS AT TRISL

MATTAKELLE TEA PROCESSING FACTORY, TALAWAKELLE

THE FACTORIES DAILY CAPACITY IS ABOUT 15000 KG/ DAY. THEY MOSTLY PRODUCE ORTHODOX TEA.

WITHERING STAGE: IN WITHERING TROUGHS THE TEA LEAVES ARE KEPT AND 43% MOISTURE IS REMOVED FOR ORTHODOX TEA PRODUCTION.

ROLLING TABLE: THROUGH THE CONVEYER, TEA LEAVES GO TO BATCH PROCESS. 250 KG FOR EACH BATCH. THEN IT GOES TO ROLLING MACHINE WHERE MILD ROLLING IS DONE.

ROTER VANE: THEN THE TEA LEAVES GOES THROUGH SEVERAL OPENINGS OF ROTOR VANE STARTING FROM 12 INCHES OPENING FOLLOWED BY 8 INCHES OPENING AFTERWARDS.

FERMENTATION: THE TEA IS KEPT IN FLOOR FOR FERMENTATION. IT TAKES ABOUT 1 HOUR AND 40 MINUTES TO FERMENT.

DRYING AND SORTING: AFTER THE FERMENTATION THE LEAVES GOES TO DRIER FOR 16-20 MINUTES. IT TAKES ABOUT 2-3 HOURS TO COMPLETE THE WHOLE PROCEDURE.

PICTURE: INSIDE VIEW OF MATTAKELLE TEA PROCESSING FACTORY

MATTAKELLE TEA PROCESSING FACTORY, TALAWAKELLE

- THEY MOSTLY USE FIRE WOOD AS FUEL.
- THE BAGS USED FOR TEA MARKETING AND DISTRIBUTION IS FOOD GRADED AND HAS FOUR PROTECTIVE LAYERS.
- ALL BAGS CONTAIN COMPUTER GENERATED CODING SYSTEM SO THAT THE BUYER CAN EASILY ACCESS ALL THE INFORMATION REGARDING PRODUCTION.
- THE PRODUCTION UNIT IS NEAT AND CLEAN AND ALL THE FACTORY WORKERS WEAR MASKS.
- THEY ALSO RECEIVED A LOT OF PRIZES FOR MAINTAINING THEIR PRODUCTION QUALITY AND STANDARDS.

PICTURE: FOOD GRADE PROTECTIVE BAGS USED TO PACKAGE TEA IN MATTAKELLE TEA PROCESSING FACTORY

PICTURE: AWARDS ACHIEVED BY MATTAKELLE TEA PROCESSING FACTORY FOR MAINTAINING PRODUCTION QUALITY AND STANDARD

TECHNOLOGY THAT WE CAN USE FROM MATTAKELLE TEA PROCESSING FACTORY

Day 05

VISIT TO

TEA SMALL HOLDINGS DEVELOPMENT AUTHORITY (TSHDA)

TEA SMALL HOLDINGS DEVELOPMENT AUTHORITY (TSHDA)

TEA SMALL HOLDINGS DEVELOPMENT AUTHORITY (TSHDA) WAS ESTABLISHED ON 1ST FEBRUARY 1977

VISION: CREATION OF A SUSTAINABILITY DEVELOPED INDEPENDENT TEA SMALL HOLDINGS SECTOR.

MISSION: EFFECTIVE COORDINATION OF SUPPORT SERVICES, DEVELOPMENT OF INDIVIDUAL ENTREPRENEURSHIP OF TEA SMALL HOLDERS AND INCLUSION OF SMALL HOLDER COMMUNITY INTO BUSINESS INCLINED FARMER ORGANIZATIONS

TEA SMALL HOLDINGS DEVELOPMENT AUTHORITY (TSHDA)

RAPIDLY INCREASED SMALL HOLDING NUMBER FROM 1977

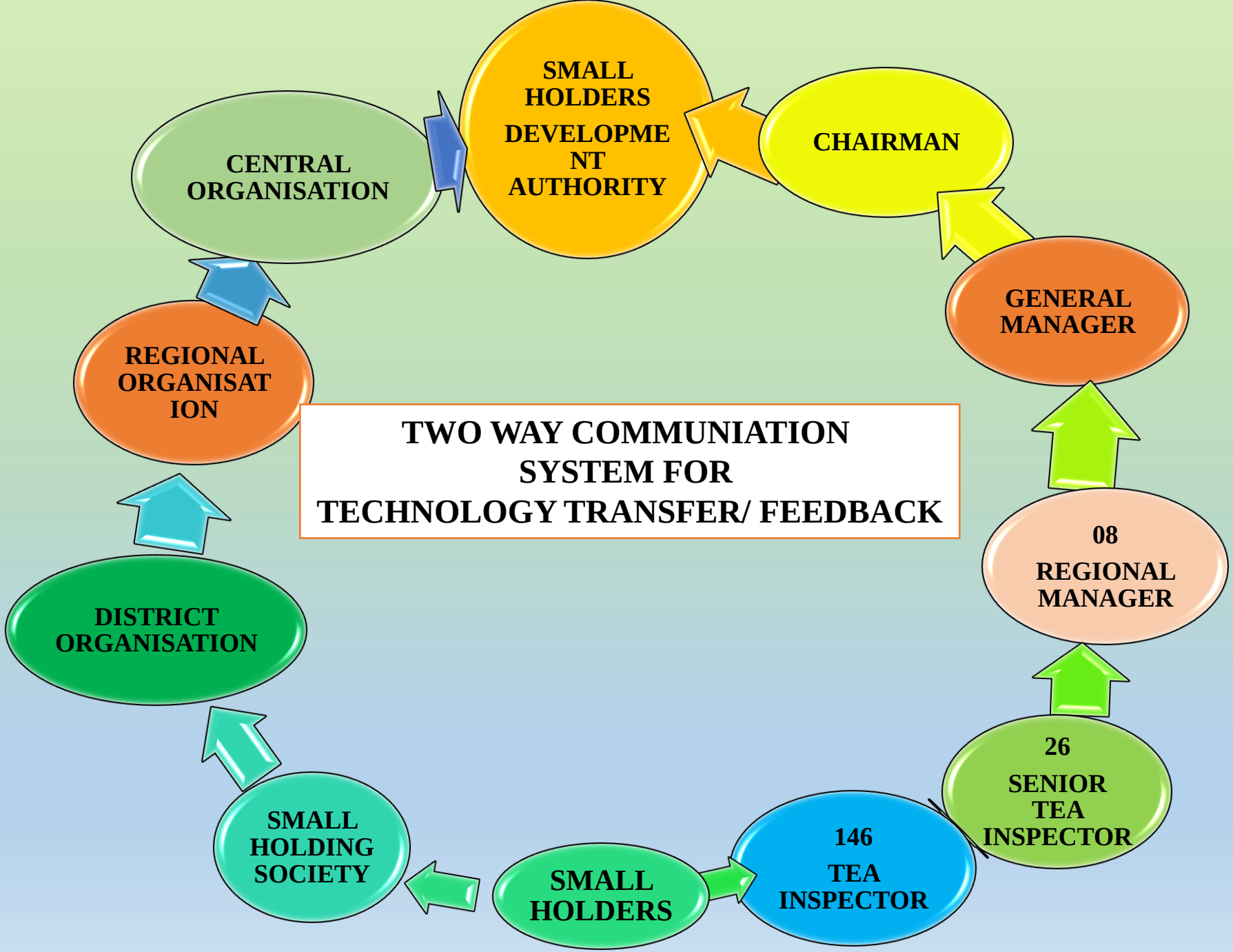
NUMBER OF SMALL HOLDERS: MORE THAN 5,00,000

CONTRIBUTRING MORE THAN 74% OF NATIONAL YIELD

AVERAGE YEILD IS 1800-2000 KG/ HA WHICH IS MORE THAN NATIONAL YEILD (1600 KG/HA) DUE TO USE OF VP CLONE

MORE THAN 1200 SOCIETIES AND ALL ARE FREE FROM POLITICAL INTERFERENCE AND INFUENCE

ORNANIZATIONAL STRUCTUTE OF TSHDA


SMALL HOLDERS DEVELOPMENT AUTHORITY
CHAIRMAN
GENERAL MANAGER
08 REGIONAL MANAGER
26 SENIOR TEA INSPECTOR
146 TEA INSPECTOR
SMALL HOLDERS
SMALL HOLDING SOCIETY
DISTRICT ORGANISATION
REGIONAL ORGANISATION
CENTRAL ORGANISATION
TWO WAY COMMUNIATION SYSTEM FOR TECHNOLOGY TRANSFER/ FEEDBACK

EQUATION FOR DETERMINING GREEN LEAF PRICE FOR SMALL HOLDERS

$$\text{GREEN LEAF PRICE} = \frac{GSA\ X\ 68}{100}\ X\ 21.5\%$$

WHERE,

- **GSA= GROSS SALE AVERAGE (PRICE OF MADE TEA AT AUCTION OF PREVIOUS MOTH IN CURRENT YEAR)**
- **68 = THE PERCENTAGE THAT GET SMALL HOLDER AND REMAINING 32% GET FACTORY OWNER**
- **21.5% = RECOVERY PERCENTAGE OF TEA**

PROCESS FOR EXTENSION WORK

INITIATIVES TAKEN TO MOTIVATE PEOPLE

- MOTIVATIONAL WORKSHOP
- CULTURAL / SPORTS PROGRAM FOR YOUTH GENERATION FROM SMALL HOLDERS FAMILY
- DELIVERED PROMOTIONAL SPEECHES IN EDUCATIONAL INSTITUTIONS
- DELIVERED PROMOTIONAL SPEECHES IN TEMPLE/ MOSQUE
- TEA CULTIVATION AT MOSQUE/ TEMPLE/ EDUCATIONAL INSTITUTE'S PREMISES

CHALLENGES AND SOLUTIONS FOR SMALL HOLDING TEA CULTIVATION IN SRI LANKA

LAND PRODUCTIVITY	• INFILLING/ REPLANTING • GOOD AGRICULTURAL PRACTICE • MIXED CROPPING (VANILLA, PEPPER ETC)
LABOUR	• CREATING TEAM OF 10 PEOPLE FROM EACH VILLAGE • PROVIDING TRAINING TO THE TEAM AND IDENTITY CARDS • RENDER SERVICES TO GARDENS WITH CONTRACT BASIS • CREATING EMPLOYMENT FOR YOUTHS
WATER MANAGEMENT	• SHADE MANAGEMENT WITH MIXED CROPPING • RAINWATER HARVESTING
PRODUCTION AND QUALITY	• HIGH YIELDING VP VARIETIES WERE PLANTED • MAINTAINANCE OF PLUCKING ROUND WITHIN 5-7 DAYS

LEARNINGS FOR BANGLADESH TEA BOARD FROM TSHDA

- SMALL HOLDING CULTIVATION SHOULD BE EXTENDED WITH VARIOUS STRATEGICAL TECHNIQUES TO ENHANCE NATIONAL TEA PRODUCTION.
- GREEN LEAF PLUCKING ROUND MUST BE MAINTAINED WITHIN SEVEN DAYS AND GREEN LEAF PRICE SHOULD BE FIXED BY THE EQUATION.
- SHOULD ESTABLISH AN ORGANIZATIONAL FRAMEWORK AS LIKE AS TEA SMALL HOLDINGS DEVELOPMENT AUTHORITY.
- RAINWATER HARVESTING, MIXED CROPPING, TEAM BASED LABOUR TRAING ETC. SHLOUD BE DONE TO INCREASE PRODUCTION.
- MOTIVATIONAL ACTIVITIES SHOULD BE INCREASED TO RELATED PEOPLE.
- SUFFICIENT NUMBER OF TEA INSPECTORS/ SUPERVISORS SHOULD BE RECRUITED FOR EXTENSION AND MONITORING OF SMALL HOLDING CULTIVATION.
- NON-BIASED TEA SMALL HOLDING SOCIETY SHOULD BE FORMED.

PICTURE: DISCUSSION WITH MR. DHAMMIKA G MAHIPALA, GENERAL MANEGER, TSHDA ABOUT SMALL HOLDING TEA CULTIVATION IN SRI LANKA

PICTURE: BANGLADESH DELEGATE TEAM PRESENTING CREST AND SOUVENIR TO HONORABLE CHAIRMAN AND GENERAL MANGER OF TEA SMALL HOLDING DEVELOPMENT AUTHORITY, SRI LANKA

Government of the People's Republic of Bangladesh
Ministry of Commerce
Admin-5 Section
Bangladesh Secretariat, Dhaka.
www.mincom.gov.bd

No. 26.00.0000.090.08.023.15- 184 Date: 20 May 2019

To: Chief Accounts Officer
Ministry of Commerce
CGA Bhobon, (4th Floor, 4th Gate), Segunbagicha, Dhaka.

Dear Sir,

The undersigned is directed to convey the sanction of the Government of the People's Republic of Bangladesh to the following officers for attending the exposure visit organized by The Tea Research Institute of Sri Lanka to be held in Colombo, Sri Lanka from 10 to 14 June 2019 or nearest five days (excluding travel time transit):

SL	Name & Designation	Institute
01	Md. Golam Mowla, Joint Secretary, Government of Bangladesh, Member (Research & Development),	Bangladesh Tea Board, Chattogram.
02	Mr. Abul Kalam Mohammad Rafikul Hoque, Director (incharge),	Project Development Unit, Bangladesh Tea Board Srimangal, Moulvibazar
03	Mr. Md. Riyadh Arefin, Scientific Officer, Botany Division,	Bangladesh Tea Research Institute Srimangal, Moulvibazar
04	Mr. Md. Arifur Rahman Bhuiyan, Scientific Officer, Soil Science Division,	Bangladesh Tea Research Institute Srimangal, Moulvibazar, Bangladesh

Terms and conditions:

(a) While on travel they will be treated as on duty;
(b) They will draw their pay and allowances in local currency. No part of it shall be drawn in foreign currency;
(c) All expenses will be borne by the Bangladesh Tea Board/ Bangladesh Tea Research Institute/ Project Development Unit from their own budget.
(d) They will depart Dhaka for Colombo, Sri Lanka on 09 June 2019 or any suitable date close to that and depart Colombo, Sri Lanka for Dhaka on 15 June 2019 or any suitable date close to that after completion of the exposure visit. They will not be allowed to stay abroad more than the approved period;

03. This Government Order (G.O) is issued in the public interest and with the approval of the competent authority.

Sincerely Yours,
Sd/-
(Farhana Islam)
Deputy Secretary
phone: 9551357

No. 26.00.0000.090.08.023.15- 184 Date: 20 May 2019

Copy forwarded for kind information and necessary action to (not in order of seniority):

01. Foreign Secretary (Senior Secretary), Ministry of Foreign Affairs, Segunbagicha, Dhaka.
02. Secretary, Ministry of Public Administration, Bangladesh Secretariat, Dhaka.
03. Chairman Bangladesh Tea Board, 171-172, Bayezit Bostamy Road, Nasirabad, Chattogram.
04. H.E The High Commissioner, High Commission of Bangladesh, 03, R.G. Senanayake Mawatha (Gregory's Road), Colombo-07 Sri Lanka (By Bag/By email).
05. Director General, Consular & Welfare Wing, Ministry of Foreign Affairs,Dhaka.
06. Director General, Directorate of Immigration and Passport, Agargaon, Dhaka.
07. Mr. Md. Golam Mowla, Joint Secretary, Member (Research & Development), Bangladesh Tea Board, Chattogram.
08. PS to Minister, Ministry of Commerce, Bangladesh Secretariat, Dhaka.
09. PS to Secretary, Ministry of Commerce, Bangladesh Secretariat, Dhaka.
10. Director, Bangladesh Tea Research Institute Srimangal Moulvibazar.
11. Mr. Abul Kalam Mohammad Rafikul Hoque, Director (incharge), Project Development Unit, Srimangal, Moulvibazar.
12. Immigration Officer, Hazrat Shah Jalal (R) International Airport, Dhaka.
13. Mr. Md. Riyadh Arefin, Scientific Officer, Botany Division, Bangladesh Tea Research Institute Srimangal Moulvibazar.
14. Mr. Md. Arifur Rahman Bhuiyan, Scientific Officer, Soil Science Division, Bangladesh Tea Research Institute Srimangal, Moulvibaza
15. Assistant Programmer, ICT Cell, Ministry of Commerce, Dhaka (with request to upload this Notification in official website of MoC).
16. PO to Additional Secretary (Admin), Ministry of Commerce, Bangladesh Secretariat, Dhaka.

20.5.19
(Farhana Islam)
Deputy Secretary

বাংলাদেশ চা বোর্ড
প্রধান কার্যালয়
১৭১-১৭২, বায়েজিদ বোস্তামী রোড
নাসিরাবাদ, চট্টগ্রাম।

স্মারক নং ২৬.০৯.০০০০.১০৯.৯৯.০০২.১৮-১৮(১৩) তারিখ : ২০.০৬.২০১৯খ্রি:

বিষয়: শ্রীলংকাতে ১০-১৪ জুন, ২০১৯ খ্রি: তারিখে **Exposure Visit** সমাপনান্তে প্রতিবেদন দাখিলকরণ প্রসঙ্গে।

সূত্র: বাণিজ্য মন্ত্রণালয়ের ২০.০৫.২০১৯ খ্রি: তারিখের ২৬.০০.০০০০.০৯০.০৮.২৩.১৫-১৮৪ সংখ্যক পত্র।

উপর্যুক্ত বিষয় ও সূত্রোক্ত স্মারকের প্রেক্ষিতে নিম্নস্বাক্ষরকারী ও তদীয় টিম (চার সদস্য বিশিষ্ট) কর্তৃক শ্রীলংকাতে চা সংশ্লিষ্ট মৌলিক ০৬ (ছয়) টি প্রতিষ্ঠানে **Exposure Visit** যথাসময়ে সমাপনান্তে ১৩০ (একশত ত্রিশ) পৃষ্ঠার বিস্তারিত প্রতিবেদন মহোদয়ের সদয় অবগতি ও কার্যকরী ব্যবস্থা গ্রহণের জন্য এতদ্‌সঙ্গে প্রেরিত হলো।

সংযুক্ত: বর্ণনামতে

মো: গোলাম মাওলা
সদস্য (গবেষণা ও উন্নয়ন)

চেয়ারম্যান
বাংলাদেশ চা বোর্ড
চট্টগ্রাম।

অনুলিপি:

১। সচিব, বাণিজ্য মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
২। সদস্য (অর্থ ও বাণিজ্য), বাংলাদেশ চা বোর্ড, চট্টগ্রাম।
৩। সচিব, বাংলাদেশ চা বোর্ড, চট্টগ্রাম।
৪-৫। পরিচালক, বিটিআরআই/পিডিইউ, শ্রীমঙ্গল, মৌলভীবাজার। প্রতিবেদনটি স্ব-স্ব প্রতিষ্ঠানের লাইব্রেরীতে সংরক্ষণ, বিজ্ঞানী/কর্মকর্তাদের নিকট বিতরণ ও অবহিতকরণ এবং প্রযোজ্য প্রযুক্তি ও শিক্ষনীয় বিষয়াদি বাস্তবায়নের অনুরোধসহ।
৬। ড. এ. কে এম রফিকুল হক, পরিচালক(ভারপ্রাপ্ত), প্রকল্প উন্নয়ন ইউনিট, বাংলাদেশ চা বোর্ড, শ্রীমঙ্গল মৌলভীবাজার।
৭-৯। প্রকল্প পরিচালক, ইরাডিকেশন অব রুর‍্যাল পভার্টি বাই এক্সটেনশন অব স্মল হোল্ডিং টি কালটিভেশন ইন লালমনিরহাট/এক্সটেনশন অব স্মল হোল্ডিং টি কালটিভেশন ইন নর্দান বাংলাদেশ, পঞ্চগড়/ এক্সটেনশন অব স্মল হোল্ডিং টি কালটিভেশন ইন চট্টগ্রাম হিল ট্র্যাক্টস, বান্দরবান, বাংলাদেশ চা বোর্ড। প্রযোজ্য প্রযুক্তি ও শিক্ষনীয় বিষয়াদি বাস্তবায়নের অনুরোধসহ।
১০-১১। জনাব মো:রিয়াদ আরেফিন/জনাব মো: আরিফুর রহমান ভূঁইয়া, বৈজ্ঞানিক কর্মকর্তা, বাংলাদেশ চা গবেষণা ইনস্টিটিউট, শ্রীমঙ্গল, মৌলভীবাজার।