

## 1. AERS

**Total: 10**

SI No.	Project ID	Sub-Project Title
1	378	Socio-economic Impact on Wheat Research and Development in Bangladesh
2	393	Cultivation, Marketing and Processing of Medicinal and Aromatic Plants (MAPs) in Bangladesh
3	406	Assessment of postharvest losses based on postharvest practices and marketing performances in selected vegetable supply chains in Bangladesh
4	407	Supply Chain Analysis of Major Vegetables Produce in Hill and Coastal Regions of Bangladesh
5	429	Impact of Improved Aquaculture Technologies on Productivity and Livelihood of Fish Farmers in Bangladesh
6	454	Agricultural Practices and livelihood Patterns of Selected Tribal Communities in Bangladesh
7	593	Development of a business model on crops and cattle for low carbon farming technique: An initiative for farm level in coastal region of Bangladesh
8	649	Economics of Adoption of Bio-security Measures for Controlling Avian Influenza in Bangladesh's Poultry Farms
9	700	Value Chain Analysis of Rice and its Byproducts in Bangladesh
10	750	Cost and Return Analysis of Sugarcane Production with Intercrops in Bangladesh

## 2. Agil Eng

Total: 2

SI No.	Project ID	Sub-Project Title
1	576	Design and Development of Power Operated Oil Palm Fruit Stripper
2	696	Improvement of Water Productivity for enhancing crop production in water scare area of North-West Bangladesh

## 3. Agril. Eng

Total: 14

SI No.	Project ID	Sub-Project Title
1	307	Improvement of Coconut Harvesting and Dehusking Machine
2	473	Develop a hydrogeological framework and a sustainable crop establishment period for haor areas of Bangladesh
3	491	Improving the performance of mechanized seeding through innovations in seed metering system
4	519	Development of modern reeling machine and its use for quality and quantity raw silk production in the field
5	548	Design and development of a compensated emitter for efficient drip irrigation system in Bangladesh
6	624	Developing a model-based water management plan for haor wetlands of Bangladesh to reduce the vulnerability of Boro rice crop to flash floods
7	705	Improvement and validation of BRRI developed headfeed mini combine harvester
8	728	Development of shelf stable value added products from onion, garlic and ginger
9	748	Design and Development of Efficient and Low Cost Sugarcane Power Crusher for Goor Production
10	754	Innovation of dyed jute knitted fabric in textile technical sectors

11	774	Development of a low cost battery operated rotary type upland weeder
12	780	Design and Development of Jute-Cotton Reinforced Polymer Composite for Rural Poultry Housing
13	811	Development and Dissemination of Fertilizer Deep Placement Applicator for Increasing Fertilizer Use Efficiency and Farm Productivity
14	814	Development and Adaptation of Water Saving Irrigation Techniques for Upland Crops

#### 4. Crop

**Total: 62**

SI No.	Project ID	Sub-Project Title
1	315	Arthropod Pests Infesting Ornamental Plants in Bangladesh: Strategies for Management
2	337	Integrated Pest Management (IPM) approaches to Major Pests of Tea for sustainable tea production
3	339	Identification of VAM and Determination of their Potentiality on Tea Cultivation
4	340	Determination of residue level of commonly used pesticides in tea
5	342	BTRI Clones and Improved Seeds to the Stakeholders
6	345	Productivity Enhancement of Promising Vegetable Varieties during Winter and Summer in Sylhet Region
7	368	Morpho-molecular characterization of underutilized indigenous vegetables in Bangladesh
8	369	Development of sustainable biological weed management techniques through allelochemicals from crop residues
9	376	Adaption of a new species "Tomatillo ( <i>Physalis peruviana</i> Lam./ <i>Physalis ixocarpa</i> Brot.)"
10	384	Characterization and Documentation of Minor Fruits in Bangladesh with Special Emphasis on Coastal and Hilly Areas Fruits

11	389	Oxidative stress tolerance of maize under drought and salinity: Mechanism and identification of stress inducible proteins
12	400	Evaluation of endocrine biopesticides against major sucking insect pests of vegetables
13	413	Assessment of ecosystem services and benefits of rooftop gardening for climate-friendly city development using geospatial technology
14	440	Tobacco replacement through high value and nutrient rich crops for food security and nutrition of charland people under Bhuapur upazilla of Tangail
15	444	Effect of Different Fruit Bagging Materials on the Production of Quality and Safe Mango
16	451	Molecular identification of the tomato leaf curl virus (ToLCV) resistant/ tolerant tomato lines
17	452	Effectiveness of non-chlorine sanitizers in improving the safety and quality of high value exportable fresh betel leaf
18	459	Selection of Salt Tolerant Sunflower and Mustard Genotypes Based on Physiological and Biochemical Traits
19	465	Validation and up scaling of fresh cut fruits and vegetables processing technologies
20	474	Status of insect biodiversity and ecosystem functions in tea estates of the Sylhet region
21	477	Survey, Monitoring and Eco-friendly Integrated Management of Major Insect Pest and Disease in Chilli at Jamalpur Region
22	479	Collection, Evaluation, Characterization and Bulb Preservation of Liliium in Bangladesh
23	490	Crop Productivity Enhancement through Agronomic Practices in Sylhet Region
24	504	Risk Assessment and Development of Management Approach(Es) Against Tomato Leaf Miner, Tuta Absoluta

25	518	Identification of different species of bacteria causing bacterial diseases of silkworm ( <i>Bombyxmori</i> ) L. and their control
26	526	Studies on the Species Complex and Their Bio-Rational Based Management of Fruit Flies Infesting Fruits and Vegetables in Bangladesh
27	528	Upscaling Of Lac Production Technologies for Poverty Reduction of the Ultra Poor and Marginal Farmers
28	529	Determination of adulteration of commonly used pesticides and their left over residue in major fruits and vegetables
29	538	Development of production package with special emphasis on off season flowering of dragon fruit
30	583	Testing of cotton cultivation technology in the drought prone area of Barind Tract of Bangladesh
31	584	Eco-friendly Management of Sucking insects Cotton
32	599	Collection and molecular characterization of resurged phytopathogen <i>Sclerotinia sclerotiorum</i> causing white mold disease of different crops and its integrated management
33	601	Molecular characterization and integrated management of Cucumber mosaic virus infecting Cucumber ( <i>Cucumis sativus</i> ) in Bangladesh
34	605	Standardization of <i>Trichoderma</i> fortified compost for growth promotion and Eco-friendly management of Tomato diseases
35	613	Distribution, severity, species diversity and damage assessment of papaya mealybug
36	623	Rooftop Gardening: An Initiative to Spread Urban Horticulture with Changing Environment
37	633	Innovation of flashflood coping rice technology for haor area through participatory approach
38	656	Enhancing the crop productivity through adoption of climate smart technologies in the salinity area of Bangladesh

39	668	Development of Protective Cultivation Techniques of Gladiolus and Gerbera in Bangladesh
40	670	Identification of Major Insect and Mite Pests of Major Vegetables in Bangladesh and their Eco-friendly Management
41	672	Productivity Enhancement through Adaptation of Improved Crop Production Technologies in Previous Enclaves of Northern Region of Bangladesh
42	695	Quantitative analysis for the toxic chemical residues in fruits and vegetables using chromatographic techniques of selected markets in Bangladesh
43	698	Identification of climatic factors responsible for disease and insect outbreak and their appropriate management in southern region of Barisal
44	701	Characterization of Important Rice Germplasm of Bangladesh
45	708	Combating seedling blight and raising healthy seedling/seed germination in cold environment
46	712	Identify and formulate biopesticides to control bakanae pathogen
47	714	Introgression of heat tolerant QTL (qHTSF4.1) into Bangladeshi mega rice varieties through marker-assisted breeding
48	716	Up Scaling of BRRRI Released New Promising Rice Varieties through Quality Seed Production at Farmers' Level
49	729	Integrated rodent management in wheat and rice through ecofriendly control techniques
50	730	Development of propagation and processing technology for Bay leaf and Cinnamon
51	732	Validation of Integrated Pest Management (IPM) technologies in the farmers fields against major insect pests of soybean at Noakhali region
52	744	Production and Field Release of Parasitoids and Predators for Management of Major Insect Pest of Sugarcrop
53	753	Induction of somaclonal variation in non-flowering germplasm of sugarcane through in vitro culture
54	755	Enhancement of Productivity of Kenaf in Char Areas

55	765	Selection of super high-yielding rice genotypes
56	767	Screening of Shattering Tolerance of <i>Brassica napus</i>
57	768	Incretion of Crop Productionby Utilization of Fallow Land through Underutilized Crops in Coastal Saline Area of Noakh
58	777	Improvement of dry direct seeded boro rice based cropping pattern through climate smart technologies and its adoption in drought-prone areas
59	783	Collection, Conservation and Maintenance of Different Fruits Germplasm in the Hilly Region of Bangladesh
60	785	Study on bionomics, Species diversity/host range, management technique of mealybug in kenaf and mesta
61	804	Improvement of spices varieties cumin, sweet pepper, chilli, turmeric and black pepper through induced mutation
62	809	Oxidative stress tolerance of maize under drought and salinity: Mechanism and identification of stress inducible proteins

## 5. Fisheries

**Total Count: 30**

Sl No.	Project ID	Sub-Project Title
1	305	Breeding biology and induced breeding technique of the freshwater gangmagur, <i>Hemibagrus menoda</i> (Hamilton, 1822)
2	316	Effects of vacuum and modified atmosphere packaging on microbiological and biochemical properties of fresh fish stored at refrigeration temperature (4 °C)
3	333	Development of green mussel <i>Perna viridis</i> farming system in coastal areas for boosting blue economy of Bangladesh
4	363	Business Opportunities of Ornamental Fisheries in Bangladesh: Development of a Production and Economic Assessment Model
5	364	Study on quality of fish feed, brood use and fingerlings produce in commercial fish farm of Bangladesh
6	397	Seed production of Bhagna, <i>Labeo ariza</i> (Hamilton, 1807) through line breeding trial in Bangladesh
7	410	Development of Sustainable Aquaculture System in the Inundated Low-laying Agriculture Land in the Coastal Region of Bangladesh
8	462	Study on environmental and socio-economic impact of Daudkandi model floodplain fisheries management
9	464	Production of Asian Seabass ( <i>Lates calcarifer</i> ) in brackish and freshwater earthen pond under natural and artificial feeding regime in South-west Coastal zone of Bangladesh
10	471	DNA Barcoding of Freshwater Fishes of Bangladesh: Implication for Conservation and Management
11	484	Management of Indigenous Fishes in Wetland (Gajner Beel, Pabna) Ecosystem



12	488	Mass seed production and culture technology of threatened fish <i>Cirrhinus reba</i> for sustainable aquaculture in Bangladesh
13	489	Development of Quality Value Added Fish Products and Utilization of By-products
14	493	Characterization of commercial probiotics using for fish and shrimp culture in Bangladesh
15	497	Evaluation of the suitability and efficacy of potato and wheat as prebiotic compounds on the growth performance, survivality and tissue composition of <i>Labeo rohita</i> and <i>Catla catla</i>
16	502	Molecular identification of local and exotic strains of koi ( <i>Anabas testudineus</i> ) for strategic conservation management
17	510	Development of nanomaterial mediated feed for improving growth and immunity of fishes
18	553	Performance of induce breeding of threatened small indigenous species ( <i>Botia Dario</i> and <i>Lepidocephalichthys guntea</i> ) with different stimulate hormones
19	587	Impact of aquaculture on agricultural production in greater Noakhali districts
20	609	DNA barcoding and metabarcoding of coral associated fish and zooplankton community of Saint Martin's Island for effective conservation of marine life
21	648	Potentials of modernization in fisheries sector of Bangladesh: Study on the peoples' profile, technologies and policies
22	674	Production and Productivity Improvement of Haor Floodplain Fisheries for Upliftment of Fishers' Livelihood
23	718	Study of the climate change impact on fisheries resources and fishers' especially women and children in selected climate hotspot zone of Bangladesh
24	778	Fine tuning of short cycle culture of shrimp <i>Penaeus monodon</i> in rotation with tilapia in the coastal gher
25	779	Improvement of live feed culture for Brackishwater hatchery operation

26	817	Biochemical and molecular assay for Detection of <i>Vibrio</i> spp at Shrimp and Shrimp Farms in Bangladesh
27	823	Residual Assessment of Hazardous Pesticides and Antibiotics in Shrimp/Prawn Farming Systems of South-West Bangladesh with its Traceability Identification and Risk Quantification on Human Health
28	825	Adoption of Culture Technologies of Short Cycle Fish Species in the Semi-arid Zone of Bangladesh
29	827	Development of Mixed Culture Technology of High Valued Galda ( <i>Macrobrachium rosenbergii</i> ) with Two Native Catfish, Shing ( <i>Heteropneustes fossilis</i> ) and Magur ( <i>Clarias batrachus</i> ) in South-western Coastal Ghers of Bangladesh
30	833	Production enhancement of carps and tilapia in creeks of Chittagong hill districts

## 6. Forest

**Total Count: 11**

Sl No.	Project ID	Sub-Project Title
1	301	Development of Climate Resilient Mangrove Ecosystems in the Sundarban
2	310	Scaling-up of farmer led agroforestry practices for livelihood improvement and resources conservation in the Madhupur Garh area
3	386	Agro-forestry for livelihood development of Jhumia community (shifting cultivators) in Chittagong Hill Tracts, Bangladesh
4	418	Growth and Productivity Assessment of Agar Plant ( <i>Aquilariamalaccensis Roxb.</i> ) through Management Practices
5	432	Achieving adaptation to climate change and sustainable livelihood through Moringa based agroforestry practice in Bangladesh
6	439	Evaluation of tree-crop interaction from existing agroforestry systems in Sylhet region for food security by the lens of climate-smart agriculture framework

7	551	Identification and economic analysis of existing agroforestry practices in the northern region of Bangladesh for better agroforestry practices
8	582	Development of agroforestry model for conversion of rice–cotton based hill farming system in the Chittagong hill tracts
9	595	Up-scaling of Multistory Agroforestry System for Diversified Production, High Income and Ecosystem Services
10	596	Rice-based agroforestry in Bangladesh – status and opportunities for sustainable land use system and combating future climate change challenges
11	815	Studies on gummosis of shade trees in tea plantation and its management

## 7. Livestock

**Total Count: 26**

Sl No.	Project ID	Sub-Project Title
1	309	Dietary effect of hydroponic legume sprouted fodder on Turkey production in Bangladesh
2	313	Development of estrus synchronization protocols using hormones in anestrus cows for improved reproductive
3	321	Seroprevalence and identification of associated risk factors of Q-fever ( <i>Coxiellaburnetii</i> ) in ruminants, an emerging zoonotic disease in Bangladesh
4	349	Identification of causes of high calf mortality in buffalo and their mitigation measures in Bangladesh
5	362	Prevalence and molecular characterization of shiga toxin producing Escherichia coli (STEC) in poultry and their products in Bangladesh
6	367	Development of Live Attenuated Duck Plague Vaccine Using Local Duck Plague Virus Strains
7	395	Genetic improvement of indigenous cattle for beef production through crossing with Brahman cattle by farmers participatory breeding approach in Bangladesh

8	403	Characterization of <i>Mycoplasma gallisepticum</i> isolates from Bangladesh and their use in production of diagnostic antigen and development of vaccine candidate
9	426	Molecular characterization of Babesia, Theileria and Anaplasma organism in livestock in Bangladesh
10	443	Development of Effective Vaccine Against Bovine Mastitis
11	448	Monitoring and surveillance of duck diseases in Hakaluki and Tanguar hoar and development of suitable vaccination models and other preventive strategies
12	533	Establishment of suitable fracture management techniques in different animals (cattle, goat, dog, cat) at Sahidul Alam Quadery Teaching Veterinary Hospital (SAQTVH) in Chittagong
13	556	Development and evaluation of formalin killed inactivated egg drop syndrome virus vaccine using local isolates
14	557	Benchmarking cost of milk production in typical dairy farms in selected regions of Bangladesh: Implications for milk market price and livelihood improvement policy
15	603	Substantial development of genetic potential for improved productivity in cattle through manipulative reproduction technology
16	607	Mining novel probiotics from Red Junglefowl ( <i>Gallus gallus</i> ) as the alternatives to antibiotics for the safe poultry production
17	647	Floating bed fodder cultivation in submerged and flooded areas in Sylhet District: A tool for climate resilient livestock production
18	654	Small scale farming of guineafowls and turkeys in Bangladesh- a tool for poverty reduction
19	659	Assessment of the impact of climate change on arthropod vector those transmitting vector borne diseases in Bangladesh
20	661	Development of low-cost technology for making processed cheese
21	694	Assessment of effectiveness of avian influenza vaccination in commercial layer birds in Bangladesh
22	722	A field study on survivability of vitrified embryos in Bangladeshi native sheep

23	781	Assessment of methane emission in dairy production systems based on existing feed resources through GLEAM model under different climatic zones of Bangladesh and their mitigation options
24	788	Development of cost effective complete pelleted feed and its utilization for commercial goat and sheep production
25	790	Development of probiotic feed supplement for calves
26	820	DNA barcoding of common native livestock & poultry and crossbreed animals in Bangladesh: potential uses in conservation for increasing production

## 8. Nutrition

**Total Count: 6**

SI No.	Project ID	Sub-Project Title
1	328	The Nutritional Analysis and Popularization of Minor Fruits to Rural and Urban Communities of Bangladesh
2	520	Study on the nutritional quality of underutilized mulberry fruits, leaves & silkworm pupae and their value addition
3	521	The future solutions for organic vegetables production in urban area
4	532	Development of commercially feasible probiotic food products for human and feed products for poultry using native isolates through biotechnological interventions
5	638	Qualitative assessment of bottled drinking water and evaluation of pesticides residue of raw, washed and cooked vegetables
6	719	Production of low cholesterol healthy mutton by using natural herbs

## 9. P&E

**Total Count: 10**

Sl No.	Project ID	Sub-Project Title
1	442	Increasing Productivity of Cropping System in Some Coastal Areas of Bangladesh
2	512	Development of a sustainable agricultural risk management technology in areas affected by flash flood using numerical climate modeling data analysis
3	554	Agricultural Imaging System for Rice and Mungbean Disease Detection and Management in Agro-Field
4	612	Enhancing Agricultural Research Information Services through digitization of research outputs
5	629	Development and upgradation of digital contents of National Agricultural Display Center (NADC) at BARC
6	688	Improved Crops Productivity of Beel Areas of Bangladesh
7	715	Enhancing Agricultural Technology through ICT Innovation: Mobile Application and Rice Database Development
8	746	Screening of sugarcane clones based on adaptive mechanisms under drought and salinity stress due to climatic change
9	769	Development of mobile phone applications for phenotyping and assessment of nitrogen fertilizer requirement by digital image analysis in cereal crops
10	787	Offline Fertilizer Recommendation through Mobile Apps

## 10. SOIL

**Total Count: 10**

Sl No.	Project ID	Sub-Project Title
1	311	Inhibition of arsenic accumulation in rice with phytofortification of microelements for nutritional safety
2	323	Development of ginger production technology under soilless culture using fertigation technique in Bangladesh
3	382	Development of existing maize based cropping patterns for sustain soil fertility in south-western region of Bangladesh
4	419	Management of acid soils for sustainable crop production in Madhupur Tract and Northern & Eastern Piedmont Plains
5	492	Conservation Agricultural Practices for the Improvement of Soil Health, Cropping System Productivity and Farmers' Income
6	499	Nutrient management for a rooftop garden
7	545	Effect of Nitrogen, Phosphorus and Potassium on Growth, Yield and Leaf Quality of Mulberry
8	559	Symbiotic and molecular characterization of potential saline tolerant rhizobial strains and bio-fertilizer production for soybean and groundnut
9	570	Improving crop yield by using polythene mulch and potassium fertilization in saline soils
10	666	Updating of Fertilizer Recommendation through Interpretation of Research Results Generated by the NARS Institutes
11	690	Assessing and mitigating the contamination of vegetable crops and soil under irrigation with urban wastewater
12	697	Intensification of Conservation Farming in North West Bangladesh
13	706	Delineating rice yield limiting soil factors for some selected paddy soils of Bangladesh
14	707	Up-scaling of biofertilizer for improvement of soil health and rice yield in Bangladesh
15	735	Production of compost, vermicompost and tricho-compost from household solid waste and their utilization on tomato and cabbage production

16	791	Effect of variety and fertilizer on cotton yield, fiber quality and seed oil content.
17	798	Heavy Metal in the Industrial Polluted Area: Spatial Distribution, Risk Assessment and Bacterial Biogeography of Contaminated Soils
18	801	Assessment of land degradation situation for improving soil quality and crop productivity using nuclear techniques
19	802	Studies on the performance of vermicompost and organic materials for improving soil fertility and crop productivity