

Program Based Research Grant (PBRG) Sub-Projects Assessment under COVID-19 Pandemic



Project Implementation Unit
National Agricultural Technology Program-Phase II Project
Bangladesh Agricultural Research Council
New Airport Road, Farmgate, Dhaka - 1215
Bangladesh

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Foreword



National Agricultural Technology Program Phase II Project (NATP-2) is a comprehensive project with a focus on revitalizing the agricultural technology system and increasing agricultural productivity in Bangladesh funded by the World Bank, International Fund for Agricultural Development, the United States Agency for International Development and the Government of Bangladesh. Strengthening capacity of the research of the national agricultural system is one of the major objectives of the research component.

Program based research grant (PBRG) is the window of NATP-2 research investment in institutional research on cross-cutting issues. PBRG facilitates the research institutions make stronger footing with team building under holistic research culture for achieving desired research output for commodities and production practices. Most importantly, PBRG programs have widened the scopes in integrating multiple organizations for jointly combating national agricultural problems and strengthening their research and research management capability apart from effective and proper resource uses at national perspectives.

By the end of March 2020, activities of research were affected by the COVID-19 pandemic. This situation has caused the shut down the labs of universities and research institutions that slowed down the field/lab activities of the PBRG sub-projects. The assessment of the status of the 51 PBRG sub projects under the impact of COVID-19 situation has been done to determine the losses of field experiments, laboratory analysis and data collection. It was done in relation to raising the issue of time extension for achieving the targeted output.

I appreciate the efforts of the Director, PIU-BARC and his team for the assessment of the status of PBRG as affected by COVID-19 pandemic and collective efforts to reach the desired objectives of the NATP-2.

I also appreciate the contribution and sincere efforts of Coordinators, Project Investigators of NARS, Universities and Private organizations providing for their input. I acknowledge the hard work of the PIU-BARC personnel to visualize the progress of PBRG under the COVID-19 pandemic through this report.

Dr. Shaikh Mohammad Bokhtiar
Executive Chairman

Preface



National Agricultural Technology Program-Phase II Project (NATP-2) is a national project of the People's Republic of Bangladesh jointly funded by GoB and IDA/IFAD/USAID. It has been started its interventions through the coordinated efforts of Ministry of Agriculture (Lead Ministry) and Ministry of Fisheries and Livestock to improve national agricultural productivity, market linkage and farm income, with a particular focus on small, marginal and female farmers. The agricultural research component: Enhancing Agricultural Technology Generation of NATP-2 is being implemented by the Project Implementation Unit (PIU) of BARC in order to generate demand-driven technologies on crops, fisheries and livestock.

The PIU-BARC is one of the five components of NATP-2 started functioning in July 2017 with the objective of enhancing agricultural technology generation for agricultural development of the country. Most of the PBRG sub-projects are at later stages of field/lab operations. We are expected to generate numbers of scalable technologies at the later part of the PBRGs.

The Government of Bangladesh has closed all institutes from 26 March 2020 considering the worldwide pandemic situation of COVID-19, and is being continued till today. As a result, the most of the field experiments, laboratory analysis and data collection stopped due to close of all research institutes, universities and private organizations. The development partners, the World Bank and IFAD have deep concerns about the impact of COVID-19 on PBRG program. The PIU-BARC has taken initiative to assess the individual component of 51 PBRG sub projects for determining the losses of experiments and samples of lab and also determining what additional time may be needed to ensure the targeted achievement.

This assessment conducted during May 2020 to December 2020. I hope this publication will be useful to the scientists, extension workers, teachers, students, donors, and other stakeholders for solving the problem and for future references.

I appreciate the contribution and sincere efforts of all sincere efforts of Coordinators, Project Investigators, Researchers, and Professors of NARS, Universities, Private organizations and NGOs. I gratefully acknowledge the direct and indirect contribution and support of all concerned extended in carrying out the activities of assessment as well as publishing this report. We are grateful to the Executive Chairman of Bangladesh Agricultural Research Council for his encouragement and support to publish this assessment report.

A handwritten signature in black ink, appearing to read 'Harunur Rashid'.

Dr. Md. Harunur Rashid
Director

Acronyms/Abbreviation

BARC	Bangladesh Agricultural Research Council
BARI	Bangladesh Agricultural Research Institute
BAU	Bangladesh Agricultural University
BDT	Bangladesh Currency (Taka)
BLRI	Bangladesh Livestock Research Institute
BRRI	Bangladesh Rice Research Institute
BSMRAU	Bangabandhu Sheikh Mujibur Rahman Agricultural University
CN	Concept Note
CRG	Competitive Research Grant
DLS	Department of Livestock
DoF	Department of Fisheries
DPP	Development Project Proposal
DU	Dhaka University
EC	Executive Chairman
HSTU	Hazi Danesh Science and Technology University
IMED	Implementation Monitoring and Evaluation Division
ISM	Implementation Support Mission
JUST	Jashore Science and Technology University
KU	Khulna University
LoA	Letter of Agreement
M&E	Monitoring and Evaluation
NARI	National Agricultural Research Institute
NARS	National Agricultural Research Systems
NATP	National Agriculture Technology Program
NGO	Non-Government Organization
NSTU	Noakhali Science and Technology University
PBRG	Program Based Research Grant
PCR	Project Completion Report
PI	Principal Investigator
PIU	Project Implementation Unit
PMU	Project Management Unit
PPT	Power Point Presentation
PSTU	Patuakhali Science and Technology University
RU	Rajshahi University
SAU	Sylhet Agricultural University
SAU (Dhaka)	Sher-e-Bangla Agricultural University
ToR	Term of Reference
WB	World Bank

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Executive Summary

PIU-BARC is one of the five components of NATP-2 started functioning in July 2017 with the objective of enhancing agricultural technology generation for agricultural development of the country. The component already completed implementation of 190 CRG sub-projects and identified 69 technologies of which 11 are currently under field demonstrations conducted by the other components (public extension agencies: DAE, DoF and DLS) of NATP-2. Out of 51 PBRG sub-projects implemented by NARS institutions/universities are mostly at later stages of field/lab operations. The sub-projects are expected to be generated numbers of scalable technologies.

In March 2020 occurrence of COVID - 19 forced to shutdown the labs of universities and research institutions that slowed down the field/lab operations of the PBRG sub-projects, which resulted the possibility of extension of current duration of many sub-projects. In May 2020, the PIU-BARC commissioned an online short survey to measure the immediate impact of unusual locked down (induced by COVID-19) on the field/lab operations of the PBRG sub-projects. The output of the short informal survey concluded: i) the PIs assumed time extension for sub-projects with lab analysis (ID # 029, 030, 064, 134, 135, 156, 159), data collection on soil management (ID # 043, 134, 135); field surveys (Socio-economic sub-projects); fisheries (ID # 029, 036, 037); and nutritional analysis; ii) limited impact assumed on field oriented farmers managed sub-projects like faming systems (ID # 061, 077, 096, 097, 098), agricultural engineering/machinery (ID # 001, 002, 064), technology transfer (ID # 005). iii) farmers reported low prices of vegetables, fishes and milk due to lack of demand resulted by communication breakdown; iv) Numbers of poultry rearing cycles dropped due to breakdown of supply chain; v) Some PIs assumed to complete sub-projects by the planned schedule if locked withdrawn by short time.

Considering the facts, the World Bank (WB) supervision mission in July 2020, recommended for DPP revision as early as possible. As a result assessment of time requirement for successful completion of PBRG sub-projects The current field assessment is made using on-line survey techniques by designed format/questionnaire to satisfy the requirement. The major findings of the current assessment are:

Till December 2020, the field/technical activities across the sub-projects completed by 41% (and partially completed 57%); financial achievement raised to 70% and procurement completed by around 90%.

The survey revealed that the average numbers of objectives per PBRG sub-projects are 3 and major activities are 9 for 1st slot (40 sub-projects) and 7 for 2nd slot (11 sub-projects). Considering 1st slot ones, out of 9 activities 4 (44%) have been completed, 5 (46%) are on-going and a trace numbers yet to be started (such as 3rd annual report, identification of technology, technology fact sheet, PCR etc.). Similarly in case of 2nd slot PBRGs, out of 7 major field activities 2 (29%) completed, 5 (71%) on-going and trace numbers are yet to be started.

The study observed 19 (48%) sub-projects out of 40 Sub-Project consumed 60% of their total allocation while 18 (45%) sub-projects spent up to 80% fund and only 3 (7%) sub-projects showed higher efficiency in consuming their total budget by spending more than 80% of their total budget. The sub-projects under 2nd slot which has passed duration of 15 months till December 2020 able to spend 60% of the allocated fund. In other words none of the 2nd slot sub-projects exceeded the expenditure of 60% of their total allocation. The sub-projects would need a blow to achieve 100% progress in financial allocation.

The total procurement packages of 1st and 2nd slot sub-projects are 1058 of which 822 (78%) shared by 1st slot ones and 236 (22%) shared by 2nd slot sub-projects. Out of 822 packages of 1st slot sub-projects procurement, 717 packages (87%) have been completed by December 2020 and the rest of 105 packages (13%) are yet to be completed within the project duration. For 2nd slot sub-projects, procurement of 159 packages (67%) has already been completed and the rest 77 packages (33%) like lab chemicals, printing & publications of PCR, leaflets/booklets etc. are to be completed within sub-project duration.

It has been observed that none of the PBRG sub-projects accepted successful completion of their sub-projects within scheduled time. In case of 1st slot, out of 40 sub-projects 18 (45%) PIs assumed or estimated up to 6 months extended duration for successful completion of scheduled activities; 12 (30%) sub-projects informed that they would need only 3 months-time extension, 9 (23%) sub-projects estimated up to 12 months-time extension while only 1 (2%) PI expected more than 12 months-time to be needed for completion of his sub-project. Similarly, in 2nd slot sub-projects, 6 (55%) PIs estimated that they would need 6 months extended time, 4 (36%) expected additional 12 months for completion of their sub-projects while only 1 (9%) sub-project desired only 3 months-time extension.

Finally it may be concluded that the 1st slot of on-going PBRG sub-projects need time extension of 6-12 months and 2nd slot need more than 12 months to achieve the desired set objectives.

1. Introduction

Among the five inter related components of NATP-2, Component-1 (Enhancing Agricultural Technology Generation) is being implemented by Project Implementation Unit (PIU), Bangladesh Agricultural Research Council (BARC) through the National Agricultural Research System (NARS) and non-NARS (Public Universities, NGOs and Other organizations) institutes. The research component has been supporting the generation and development of agricultural technologies on crops, fisheries and livestock through implementing Competitive Research Grant (CRG) and Program Based Research Grant (PBRG) sub-projects for increasing the productivity and production of agricultural commodities. The PIU-BARC, NATP-2 has already developed an Operational Guideline for Agricultural Innovation Fund-1 (AIF-1) for its efficient management. AIF-1 fund is being used to cover the sub-project research and related cost. Maximum financial limit for each CRG research proposal is BDT 57.58 lakh (US\$ 74,300) and maximum limit for each PBRG research proposal is BDT 387.50 lakh (US\$ 500,000). However, the cost depends on the size and nature of the research proposal.

2. PBRG Sub-projects

The second window of NATP-2 research investment is the institutional Program Based Research Grant (PBRG) considered research on cross cutting issues. National Agricultural Research Institutes (NARIs) has made considerable success in technology generation but could do much more if enough financial supports provided to strategic inter-disciplinary research on particular facets of demand led areas. To this effect, the designed institutional PBRG of NARIs is conducive and effective approach. PBRG made stronger footing with holistic research culture for achieving desired output for commodities and production practices. Most importantly, coordinated PBRG program amongst NARIs has widen scopes in integrating multiple organizations for jointly combating national agricultural problems and strengthening their research and research management capability apart from effective and proper resource uses in national perspectives.

The coordinated PBRG program amongst NARIs expected to make wider scopes in integrating multiple organizations for jointly addressing national agricultural problems and strengthening their research and its management capacity apart from effective and proper resource uses in national perspectives. According to operational guideline AIF-1, PIU-BARC invited Concept Note (CN) for PBRG sub-projects on 03 October, 2016. PIU-BARC received 150 CN of PBRG research proposals. Nine Technical committees of different Technical Divisions of BARC reviewed 150 CN of PBRG research proposals and selected 48 CN for submission of full research proposals. According to Project Implementation Manual (PIM), the full Research Proposal (FRP) was reviewed by two independent reviewers. After rigorous review, the Executive Council (EC) of BARC offered 40 PBRG sub-projects against the DPP target of 33 with BDT 103.54 crore as per LOA signed.

The duration of the PBRG sub-project is maximum 4 (Four) years i.e. up to 48 months from the date of starting. The PIs have to be completed the field/lab research activities and provide draft Project Completion Report (PCR) along with necessary data and information to the Coordination Component by 48 months of LoA signed. The Coordination Component is to submit the final PCR to the PIU-BARC, NATP-2 before 12 months of project (NATP-2) closing date. All activities of PBRG sub-projects are to be completed no later than one year prior to NATP-2 closing date in order to allow enough time to validate the generated technologies in the field.

After completing the awarding process (signing of LoA) of PBRG sub-projects, the PIU-BARC has started fund release for the sub-projects during February 2018 – June 2018. Following the similar procedure of reviewing and screening the rest 11 PBRG sub-projects have been awarded to the scientists of NARS in October 2019 with an amount of around BDT 24.88 crore.

The field implementation of 51 PBRG sub-projects is moving forward successfully in the field through 190 components with nationwide coverage. The PIs are submitting half-yearly and annual reports of their sub-projects and satisfactory progress is being made in field/lab works including data generation through field

survey. Till December 2020, BDT 9061.35 lakh (70.56%) disbursed to the PBRGs against the DPP target of BDT 12842.00 lakh. None of the sub-projects submitted the PCR yet. All 51 sub-projects are scheduled to be completed field works by June 2021.

2.1 COVID -19 Incidence

Due to COVID-19 incidence many scheduled activities have been temporarily dropped as GoB declared general holidays from 26 March to 30 May 2020. During the period, the PIU-BARC continued activities through virtual meetings and on-line surveys of field implementation status of the planned activities. To find out the immediate impact of COVID-19 on the field implementation of PBRG sub-projects, a short online survey was initiated during 3rd week of April 2020. Around 120 PIs of 44 PBRG sub-projects responded in the on-line survey. The major findings of the short surveys are:

i) Majority PIs anticipated no or limited impact of corona pandemic on the field activities of the sub-projects on faming systems (ID # 061, 077, 096), agricultural engineering/ machinery (ID # 001, 002, 064), technology transfer (ID # 005) etc. These sub-projects are field oriented and mostly managed by farmers under the guidance of field staff of research institutes; ii) A good number of PIs assumed time extension for their sub-projects, those have lab analysis (ID # 029, 030, 064, 134, 135, 156, 159), data collection (soil management: ID # 043, 134, 135); field surveys (Socio-economics sub-projects); fisheries (ID # 029, 036, 037); and nutritional analysis sub-projects; iii) Many of the PIs reported that farmers faced acute problems of low prices of vegetables, fishes and milk in the market due to lack of demand related with the communication breakdown throughout the country; iv) Numbers of poultry rearing cycles might be dropped due to lack of supply of all sorts of inputs; v) The fruit orchards and nurseries including tea gardens are facing management problems due to absence of required numbers of staffs of the sub-projects; vi) Large numbers of PIs are hopeful to complete their sub-projects by time schedule but simultaneously they mentioned if the locked down continued for months then time extension could be needed to achieve the set objectives and for completion of the sub- projects.

The revision of DPP of NATP 2 has come to the face due to (i) delayed start of project implementation, (ii) successful completion of all PBRG sub-projects, (iii) completion 140 PhD programs within project duration, (iv) time loss by COVID-19 and v) to proper use of surplus resources. Considering the facts The World Bank (WB) supervision mission recommended for DPP revision as early as possible. As a result assessment of time requirement for successful completion of PBRG sub-projects and PhD programs evolve as new issues to be solved. The current field assessment is made to satisfy the requirement. The following section elaborated the results of the online present assessment.

3. Assessment of Current Progress of PBRG Sub-Projects

3.1 Background

The PIU-BARC made an assessment on the progress of PBRG-sub-projects in the context of i) program implementation, ii) financial expenditure, iii) progress of scheduled procurement and iv) need of extension of project duration (time extension). A quick short on-line survey was made through designed questionnaire (format), which sent to the Coordinator and PIs (Principal Investigators) of the sub-projects on 4 August 2020. Out of 190 components of 51 sub-projects, 186 Coordinator and PIs responded and sent back the required information through e-mail. Before and after sending the format/questionnaire to the PIs, it was discussed with them in 3 consecutive virtual meetings conducted by the Director, PIU-BARC in the month of September to November 2020. The research and M&E sections of the PIU-BARC jointly conducted the study/survey considering the recommendation of WB in the agreed actions of ISM, July 2020. The format for collecting procurement data is attached as [Annex I](#). The results of the study discussed as summary findings of all sub-projects (40 in 1st slot and 11 in 2nd slot) in section 3 and the discussion of results elaborated by individual sub-projects in section 4. Till December 2020, the field/technical activities across the sub-projects completed

by 41% (and partially completed 57%); financial achievement reached to 70% and procurement completed by around 90%. Considering the progress of the sub-projects, it could be concluded that the development objectives across all sub-projects are almost finish but would need extended time to achieve it fully. The achievement of objectives by sub-projects is also flagged out when results of the individual sub-projects discussed in the next (following) sections. The details data on each of the indicators like a) Progress of field activities, b) financial progress and c) procurement progress are presented in [Annex II](#).

3.2 Progress of Field Activities

The PIU-BARC offered PBRG sub-projects to the PIs in two slots as 1st slot in January/February 2018 and as 2nd slot in October 2019. The sub-projects of 1st slot completed almost 36 months while the sub-projects of 2nd slot completed only 15 months. Considering the duration of implementation, the progress of sub-projects showed separately by 1st and 2nd slot in the following Table 3.1. For assessing the progress of program implementation, the study identified the planned technical activities of each of the sub-projects to satisfy the set objectives and measured how many activities completed, and how many are still on-going. The Table 3.1 summarized the numbers of sub-projects completed the scheduled field activities. The standard deviations of each of the mean values plotted in the Table below (3.1). It has been observed that the average numbers of objectives per PBRG sub-projects are 3 and major activities are 9 for 1st slot (40 sub-projects) and 7 for 2nd slot (11 sub-projects). For 1st slot ones, out of 9 activities 4 (44%) completed, and 5 (46%) are on-going (like 3rd annual report or PCR etc.). Similarly in case of 2nd slot of PBRGs out of 7 major field activities 2 (29%) completed, and 5 (71%) are found on-going. Details shown in the table 3.1

Table 3.1: Progress of field activities of PBRG sub-project till September 2020

PBRG sub-project	No. of objective	No. of major activities	Progress of activities (#)	
			Completed	On-going
1 st Slot (40)	3 ± 1.001	9 ± 2.568	4 ± 2.098	5 ± 2.483
2 nd Slot (11)	3 ± 0.647	7 ± 3.228	2 ± 1.849	5 ± 1.834
All	3 ± 0.932	8 ± 2.748	3 ± 2.173	5 ± 2.344

3.3 Financial Progress

The fund utilization status (till 15 December 2020) of the 1st and 2nd slot PBRG sub-projects is plotted in the following Table 3.2. The study observed that 19 (48%) sub-projects under 1st slot consumed 60% of their total allocation while 18 (45%) sub-projects spent up to 80% fund and only 3 (7%) sub-projects showed higher efficiency in consuming their total budget by spending more than 80% of their total budget. The sub-projects under 2nd slot, which has passed duration of 15 months till December 2020 spent 60% of the allocated fund. In other words none of the 2nd slot sub-projects exceeded the expenditure of 60% of their total allocation. The sub-projects would need a blow to achieve 100% progress in financial allocation.

Table 3.2: Financial progress of PBRG sub-project till September 2020

PBRG sub-project	Fund utilization by PBRG sub-project (#) against total budget			
	Up to 60%	61-80%	>80%	Total
1 st Slot (40)	19	18	3	40
2 nd Slot (11)	11	0.00	0.00	11
Total	30	18	3	51

3.4 Procurement Progress

The total procurement packages of 1st and 2nd slot sub-projects are 1058 of which 822 (78%) shared by 1st slot ones and 236 (22%) shared by 2nd slot sub-projects. Out of 822 packages of 1st slot sub-projects procurement of 717 packages (87%) completed by December 2020 and the rest 105 packages (13%) are yet to be completed within the project duration. For 2nd slot sub-projects, procurement of 159 packages (67%) has already been completed and the rest 77 packages (33%) are to be completed within sub-project duration. Irrespective of slots, 83% procurement packages have been completed and the rest 17% are still on-going. The progress in procurement is found achievable. Details are shown in the table 3.3

Table 3.3: Procurement progress of PBRG sub-project till September 2020

PBRG sub-project	Procurement progress by PBRG sub-project (#)		
	Total package (#)	Completed (#)	On-going (#)
1 st Slot (40)	822	717 (87%)	105 (13%)
2 nd Slot (11)	236	159 (67%)	77 (33%)
Total	1058	876 (83%)	182 (17%)

3.5 Sub-project Duration

The study investigated the views of PIs for time requirement of the sub-projects to complete field implementation including reporting (PCR etc.) considering the stress of Corona pandemic situation. The following Table 3.4 summarized the information provided by the sub-project implementers. It has been observed that none of the sub-project PIs accepted completion of their sub-projects within scheduled time. In case of 1st slot, out of 40 sub-projects 18 (45%) PIs assumed or estimated up to 6 months extended duration for successful completion of scheduled activities; 12 (30%) sub-projects informed they would need only 3 month time extension, 9 (23%) sub-projects estimated up to 12 months-time extension while only 1 (2%) PI expected more than 12 month time to be needed for completion of his sub-projects. Similarly in 2nd slot sub-projects, 6 (55%) PIs estimated they would need 6 months extended time, 4 (36%) expected 12 months more time to be needed for completion of their sub-projects while only 1 (9%) sub-project desired only 3 months-time extension. Across slots, 25% PIs desired 3 months-time extension for their on-going PBRG sub-projects, 47% demanded 6 months-time extension, 25% assumed 12 months-time extension while only 3% expected more than 12 months-time extension.

Table 3.4: Time requirement for PBRG sub-project

PBRG sub-project	Time requirement by PBRG sub-project (#)				Total
	3 months	6 month	12 months	>12 months	
1 st Slot (40)	12 (30)	18 (45)	9 (23)	1 (2)	40 (100)
2 nd Slot (11)	1 (9)	6 (55)	4 (36)	0	11 (100)
Total	13 (25)	24 (47)	13 (25)	1 (3)	51 (100)

Figures in parenthesis are percentage

4. Implementation Progress by Individual Sub-Projects

1. Up-scaling and Application of Solar Photovoltaic Pump for Smallholder Irrigation and Household Appliances in the Central Coastal Region of Bangladesh (ID # 001)

a) Progress of Field Activities

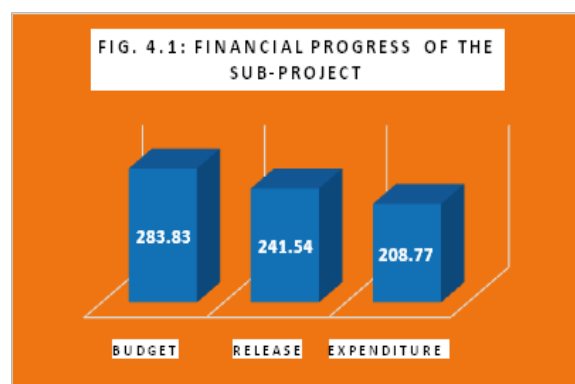
The sub-project ID # 001 has 3 components being implemented by BARC, BARI and BRRI to up-scaling of solar pump for smallholder irrigation in the central coastal region and analyzing its technical and economic feasibility for multiple uses. The sub-project sets 8 objectives (2 by BARC, 3 by BARI and 3 by BRRI) and to satisfy the objectives it has executed 36 major activities of which 7 by BARC, 12 by BARI and 17 by BRRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.1 by the components. The sub-project fulfilled the up scaling of solar pump for small holder irrigation and the sustainability to be evaluated later. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 6 months for the sub-projects.

Table 4.1: Progress of field activities and time required for sub-project ID # 001 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	7	3	3	1	6
BARI	3	12	8	2	2	5
BRRI	3	17	10	7	0	6
Total	8	36	21	12	3	17
Average	3	12	7	4	1	6

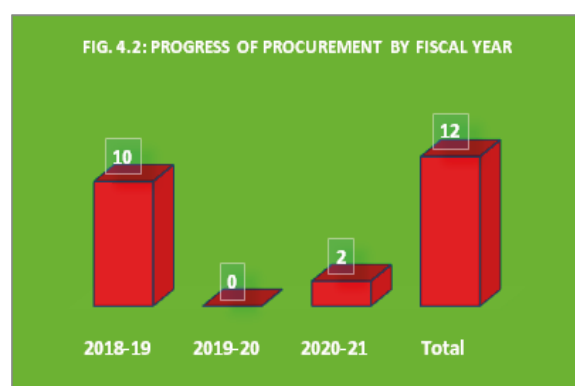
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.1. The total budget of the sub-project is BDT 283.83 lakh of which BDT 241.54 lakh (85%) has been released by the PIU-BARC and BDT 208.77 lakh (74%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 12 by different components. By November 2020, the sub-project completed 12 packages (100%) of the procurement of which it made 10 packages (83%) in 2018-19; nil in 2019-20 and 2 packages in 2020-21. The fig. 4.2 showed the progress of procurement of the sub-project by fiscal year.



2. Groundwater Resources Management for Sustainable Crop Production in Northwest Hydrological Region of Bangladesh (ID #002)

a) Progress of Field Activities

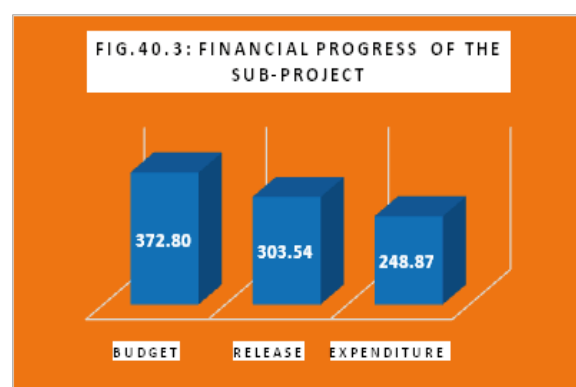
The sub-project ID # 002 has 4 components being implemented by BARC, BARI, BRRI and BINA to assess groundwater availability and recharge pattern in different districts of northwest hydrological region of Bangladesh. The sub-project set 13 objectives (1 by BARC, 4 by BARI, 5 by BRRI and 3 by BINA) and to satisfy the objectives it has executed 28 major activities of which 8 by BARC, 6 by BARI, 8 by BRRI and 6 by BINA. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed one are plotted in columns # 2-6 of the Table 4.2 by the components. The sub-project monitored the ground water availability and recharge pattern and optimize abstraction suggested through low water requiring cropping patterns. It identified location based cropping patterns for the purpose but would need to obtain results. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 6 months for the sub-projects.

Table 4.2: Progress of field activities and time required for sub-project ID # 002 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	1	8	4	4	0	6
BARI	4	6	0	6	0	6
BRRI	5	8	0	8	0	9
BINA	3	6	5	1	0	2
Total	13	28	9	19	0	23
Average	3	7	2	5	0	6

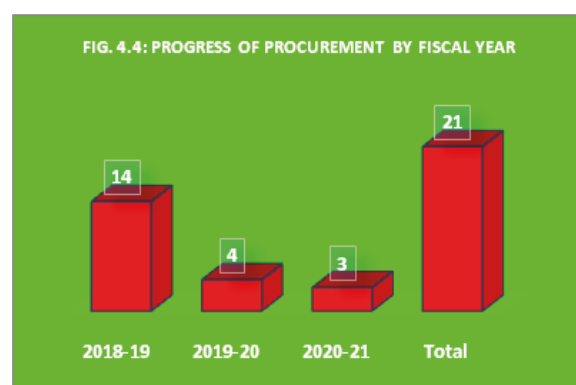
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.3. The total budget of the sub-project is BDT 372.80 lakh of which BDT 303.54 lakh (81%) has been released by the PIU-BARC and BDT 248.87 lakh (67%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 21 by different components. By November 2020, the sub-project completed 21 packages (100%) of the procurement of which it made 14 package (67%) in 2018-19; 4 packages (19%) in 2019-20 and 3 packages (14%) in 2020-21. The fig. 4.4 showed the progress of procurement of the sub-project by fiscal year.



3. Transfer of Agricultural Technologies to Farmers' Level for Increasing Farm Productivity (ID# 005)

a) Progress of Field Activities

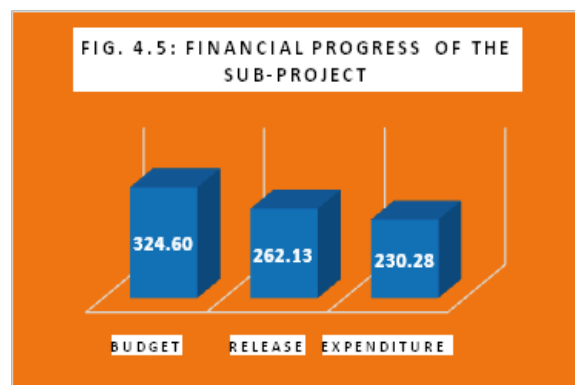
The sub-project ID # 005 has 11 components being implemented by BARC, BARI, BRRI, BINA etc. (Table 4.3) to transfer NARS institutes generated economically viable technologies rapidly for higher agricultural productivity and profitability. The sub-project set 26 objectives (2 by BARC, 3 by BARI, 2 by BRRI, 3 by BINA etc.) and to satisfy the objectives it has executed 89 major activities of which 8 by BARC, 3 by BARI, 7 by BRRI, 11 by BINA etc. The number of objective, number of major field/technical activities showing completed, on-going and to be completed one are plotted in columns # 2-6 of the Table 4.3 by the components. Large numbers of technologies validated in the field but level of adoption by the farmers would need further evaluation. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 7 months for the sub-projects.

Table 4.3: Progress of field activities and time required for sub-project ID # 005 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	8	4	4	0	12
BINA	3	11	4	7	0	12
BARI	3	3	2	1	0	12
BLRI	2	13	6	6	1	6
BFRI	2	8	7	1	0	6
BWMRI	2	5	2	3	0	6
BSRI	3	9	3	6	0	9
CDB	2	10	5	5	0	6
BJRI	3	7	2	5	0	6
BRRI	2	7	5	2	0	6
SRDI	2	8	2	6	0	0
Total	26	89	42	46	1	81
Average	2	8	4	4	0	7

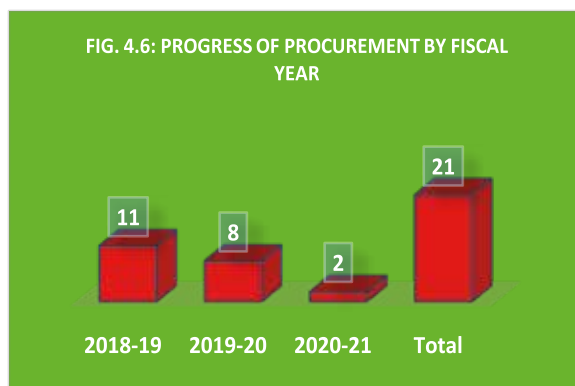
b) Financial Progress

The updated financial progress of the sub-project ID # 005 is shown in the fig. 4.5. The total budget of the sub-project is BDT 324.60 lakh of which BDT 262.18 lakh (81%) has been released by the PIU-BARC and BDT 230.28 lakh (71%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 21 by different components. By November 2020, the sub-project completed 21 packages (100%) of the procurement of which it made 14 package (67%) in 2018-19; 4 packages (19%) in 2019-20 and 3 packages (14%) in 2020-21. The fig. 4.4 showed the progress of procurement of the sub-project by fiscal year.



4. Value Addition and Standardization of Nutritional Level in Selected Food items from Animal and Plant Origin (ID #007)

a) Progress of Field Activities

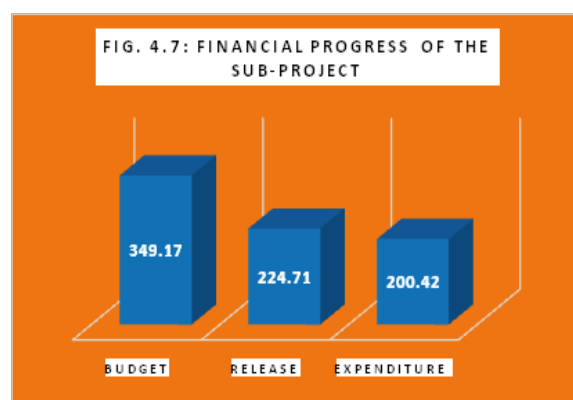
The sub-project ID # 007 has 3 components being implemented by BARC, PSTU, and HSTU (Table 4.4) to identifying the health-hazards materials in poultry industry and their effects on nutritional quality of poultry and poultry products to make the food safer. The sub-project set 11 objectives (6 by BARC, 3 by PSTU and 2 by HSTU) and to satisfy the objectives it has executed 29 major activities of which 6 by BARC, 14 by PSTU, and 9 by HSTU. The number of objective, number of major field/technical activities showing completed, on-going and to be completed one are plotted in columns # 2-6 of the Table 4.4 by components. The objective partially achieved and after analyzing all samples and publishing the results would fully comply the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-projects.

Table 4.4: Progress of field activities and time required for sub-project ID # 007 by components

Sub-project ID#	Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
007	BARC	6	6	0	6	0	6
	PSTU	3	14	2	12	0	2
	HSTU	2	9	3	6	0	6
	Total	11	29	5	24	0	14
	Average	4	10	2	8	0	5

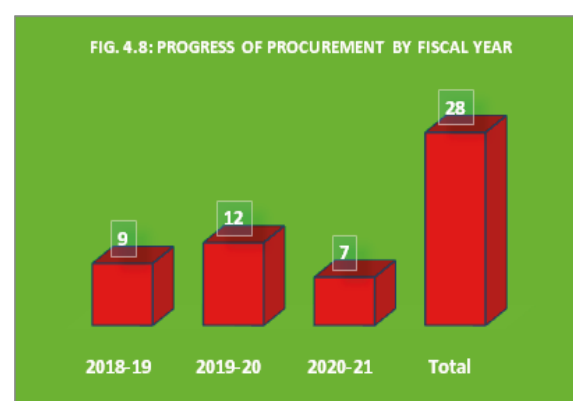
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.7. The total budget of the sub-project is BDT 349.17 lakh of which BDT 224.71 lakh (64%) has been released by the PIU-BARC and BDT 200.42 lakh (57%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 29 by different components. By November 2020, the sub-project completed 28 packages (97%) of which it made 9 package (32%) in 2018-19; 12 packages (43%) in 2019-20 and 7 packages (25%) in 2020-21. The fig. 4.8 showed the progress of procurement of the sub-project by fiscal year.



5. DNA Marker-assisted Breeding for Producing Highly Stress Tolerant Elite Rice Varieties for Coastal Bangladesh by Introgression of multiple Salt Tolerance loci (QTLs) into Commercial Cultivars (ID# 010)

a) Progress of Field Activities

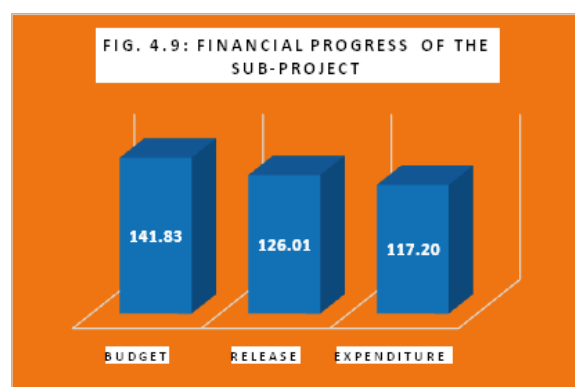
The sub-project ID # 010 has 2 components being implemented by BRRI, and Dhaka University (DU) (Table 4.5) to establish a fluorescent-based quick and easy system for target allele in a breeding program. The sub-project set 6 objectives (3 by BRRI, and 3 by DU) and to satisfy the objectives it has executed 19 major activities of which 9 by BRRI, and 10 by DU. The number of objectives, numbers of major field/technical activities showing completed, on-going and to be completed one are plotted in columns # 2-6 of the Table 4.5 by components. And based on this basic work BRRI is expecting to develop an effective salt tolerant rice variety very soon. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-projects.

Table 4.5: Progress of field activities and time required for sub-project ID # 010 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BRRI	3	9	7	1	1	2
DU	3	10	8	2	0	5
Total	6	19	15	3	1	7
Average	3	10	8	2	1	4

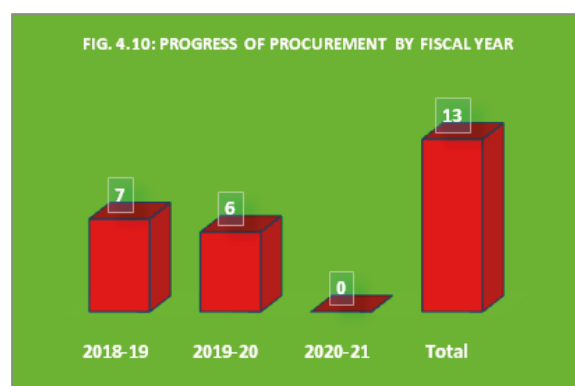
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.9. The total budget of the sub-project is BDT 141.83 lakh of which BDT 126.01 lakh (89%) has been released by the PIU-BARC and BDT 117.20 lakh (83%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 13 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 7 package (54%) in 2018-19; 6 packages (43%) in 2019-20 and nil in 2020-21. The fig. 4.10 showed the progress of procurement of the sub-project by fiscal year.



6. Food-Based Initiative for Improving Household Food Security, Income Generation and Minimize Malnutrition (ID# 011)

a) Progress of Field Activities

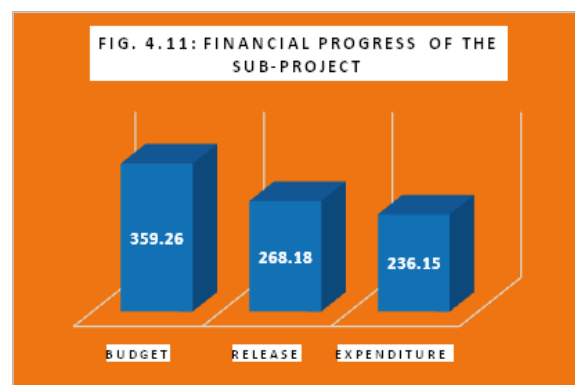
The sub-project ID # 011 has 3 components being implemented by BARC, BLRI and NSTU (Table 4.6) to identify the livelihood pattern of the ethnic and coastal people with a view to increase food security and adequate dietary intake in terms of energy, protein, fat, vitamin and other micronutrients. The sub-project set 13 objectives (6 by BARC, 4 by BLRI and 3 by NSTU) and to satisfy the objectives it has executed 18 major activities of which 5 by BARC, 6 by BLRI and 7 by NSTU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.6 by the components. Enhancement of food and nutritional security of the beneficiary families partially ensured by supplying additional diet and deserve further evaluation The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-projects.

Table 4.6: Progress of field activities and time required for sub-project ID # 011 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	6	5	3	2	0	8
BLRI	4	6	2	4	0	3
NSTU	3	7	4	3	0	1
Total	13	18	9	9	0	12
Average	4	16	3	3	0	4

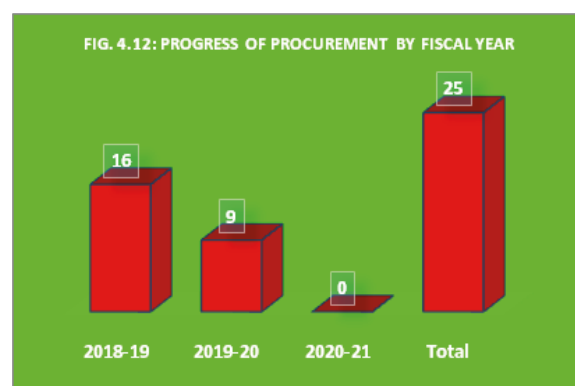
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.11. The total budget of the sub-project is BDT 359.26 lakh of which BDT 268.18 lakh (75%) has been released by the PIU-BARC and BDT 236.15 lakh (66%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 27 by different components. By November 2020, the sub-project completed 25 packages (93%) of the procurement of which it made 16 package (64%) in 2018-19; 09 packages (36%) in 2019-20 and 0 package (00%) in 2020-21. The fig. 4.12 showed the progress of procurement of the sub-project by fiscal year.



7. Development of Lean Season Fruit Varieties and Management Packages (ID #013)

a) Progress of Field Activities

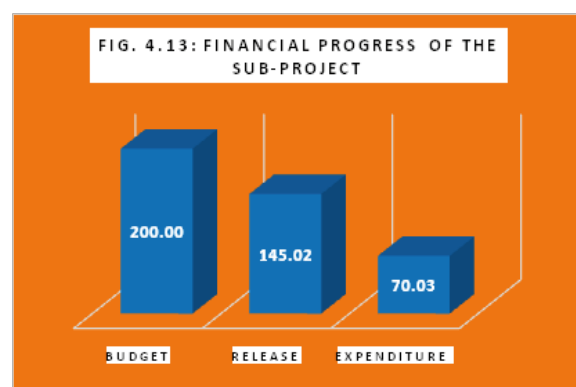
The sub-project ID # 013 has 3 components being implemented by BARI (Table 4.7) for collection, characterization, evaluation, conservation and utilization of fruit germplasm grown in the lean season and development of lean seasoned, high yielding and good quality fruit varieties and management technologies. The sub-project set 13 objectives (6 by HRC, 4 by Plant pathology and 3 by Entomology divisions of BARI) and to satisfy the objectives it has executed 21 major activities of which 8 by HRC, 5 by Plant pathology and 8 by Entomology divisions of BARI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.7 by the components. Collection and conservation is completed but utilization of those trees for propagation purposes is an on-going process. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 7 months for the sub-project.

Table 4.7: Progress of field activities and time required for sub-project ID # 013 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
HRC, BARI	6	8	1	7	0	6
Plant Pathology, BARI	4	5	1	4	0	9
Entomology, BARI,	3	8	3	3	2	5
Total	13	21	5	14	2	20
Average	4	7	2	5	1	7

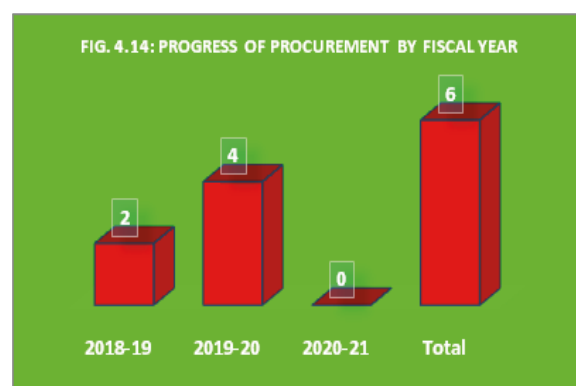
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.13. The total budget of the sub-project is BDT 200.00 lakh of which BDT 145.02 lakh (73%) has been released by the PIU-BARC and BDT 70.03 lakh (35%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project ID were 6 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 2 package (33%) in 2018-19; 4 packages (67%) in 2019-20 and nil in 2020-21. The fig. 4.14 showed the progress of procurement of the sub-project by fiscal year.



8. Integration of Postharvest Technologies and Best Practices in the Value Chains of Fruits and Vegetables (ID #016)

a) Progress of Field Activities

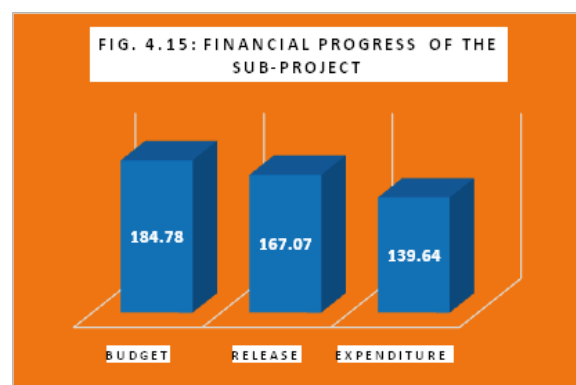
The sub-project ID # 016 has 4 components being implemented by BARI and Dhaka University (Table 4.8) to improve the quality and safety of fruits and vegetables by introducing new tools, machinery and means of harvesting, handling, packaging and cool chamber facilities with a view to reduce post-harvest loss. The sub-project set 12 objectives (3 by Post Harvest Technology, BARI; 3 by HRC, 3 by FMPR, BARI and 3 by DU) and to satisfy the objectives it has executed 32 major activities of which 3 by Post Harvest Technology, BARI; 11 by HRC, 10 by FMPR, BARI and 8 by DU. The numbers of objectives, numbers of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.8 by the components. The sub-project partially complied the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-projects.

Table 4.8: Progress of field activities and time required for sub-project ID # 016 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
Postharvest Technology, BARI	3	3	0	3	0	3
HRC, BARI	3	11	7	4	0	2
FMPR, BARI	3	10	7	3	0	6
DU	3	8	1	7	0	6
Total	12	32	15	17	0	17
Average	3	8	4	4	0	4

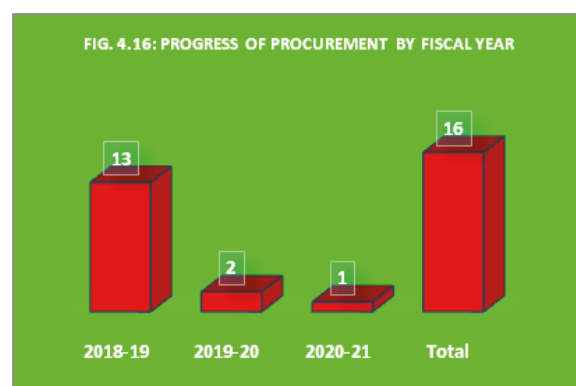
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.15. The total budget of the sub-project is BDT 184.78 lakh of which BDT 167.07 lakh (90%) has been released by the PIU-BARC and BDT 139.64 lakh (76%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 16 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 13 package (81%) in 2018-19; 2 packages (13%) in 2019-20 and 01 package (6%) in 2020-21. The fig. 4.16 showed the progress of procurement of the sub-project by fiscal year.



9. Development of Production Package for Export and Processing Potatoes to Sustain Productivity and Food Security in Bangladesh (ID# 020)

a) Progress of Field Activities

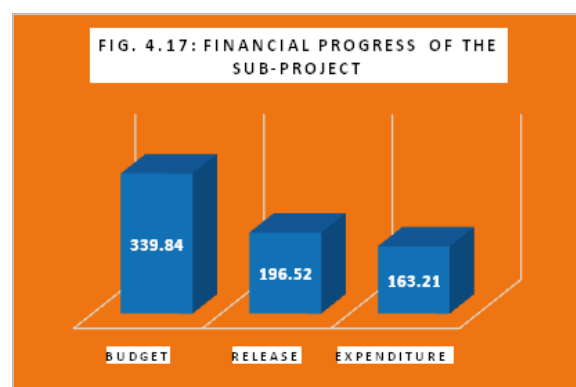
The sub-project ID # 020 has 4 components being implemented by BARI and Dhaka University (Table 4.9) for the purpose of view to development of processing and export quality potato through in-country hybridization and exotic variety. The sub-project set 13 objectives (4 by BARI; 3 by SAU, 3 by Giant Agro, and 3 by Quasem Food Products Ltd.) and to satisfy the objectives it has executed 31 major activities of which 14 by BARI; 14 by SAU, and 3 by Giant Agro. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.9 by the components. The sub-project partially complied the set objectives as it is the 2nd season of the sub-project. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.9: Progress of field activities and time required for sub-project ID # 020 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARI	4	14	0	14	0	6
SAU	3	14	0	14	0	6
Giant Agro Ltd.	3	3	0	3	0	3
Quasem Food Products Ltd	3	3	0	3	0	5
Total	13	34	0	34	0	20
Average	3	9	0	9	0	5

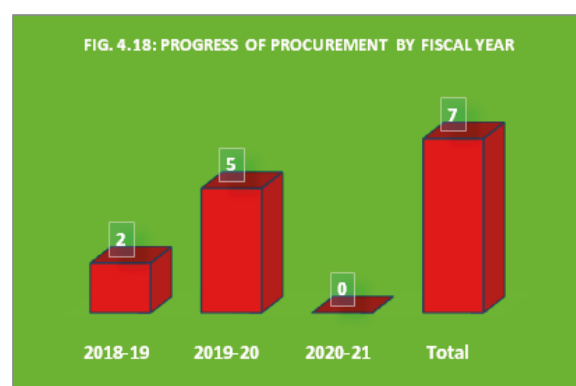
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.17. The total budget of the sub-project is BDT 339.84 lakh of which BDT 196.52 lakh (58%) has been released by the PIU-BARC and BDT 163.21 lakh (48%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project was 7 by different components. By December 2020, the sub-project completed (100%) the procurement of which it made 2 package (29%) in 2018-19; 5 packages (71%) in 2019-20 and nil in 2020-21. The fig. 4.18 showed the progress of procurement of the sub-project by fiscal year.



10. Cost and Return Analysis of Selected Crops in Bangladesh (ID# 021)

a) Progress of Field Activities

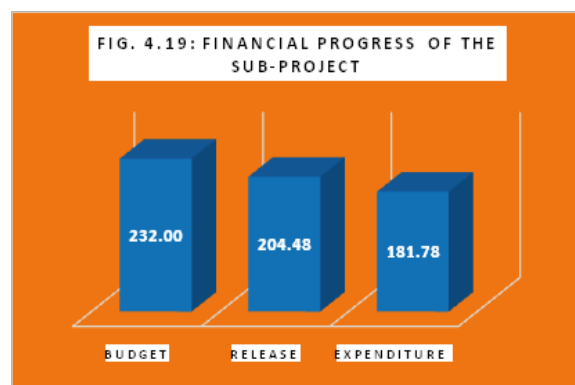
The sub-project ID # 021 has 3 components being implemented by BARC, BARI and BINA (Table 4.10) to generate a complete input-output database on major agricultural crops (except rice & sugarcane) cultivation practices at farm level. The sub-project set 9 objectives (3 by BARC; 3 by BARI, and 3 by BINA) and to satisfy the objectives it has executed 33 major activities of which 13 implemented by BARC; 10 by BARI, and 10 by BINA. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.10 by the components. The sub-project partially complied the set objectives as the analysis of data is yet to be completed. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.10: Progress of field activities and time required for sub-project ID # 021 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	3	13	7	6	0	6
BARI	3	10	6	4	0	5
BINA	3	10	6	4	0	5
Total	9	33	19	14	0	16
Average	3	11	6	5	0	5

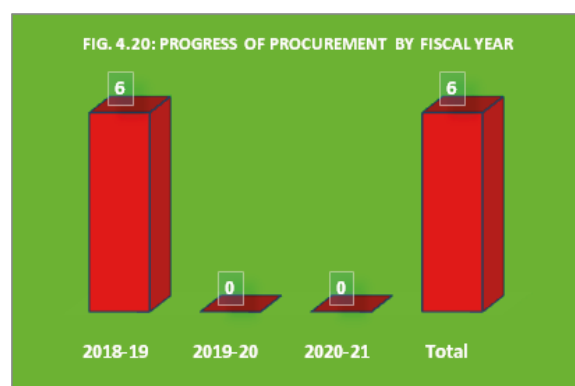
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.19. The total budget of the sub-project is BDT 232.00 lakh of which BDT 204.48 lakh (88%) has been released by the PIU-BARC and BDT 181.78 lakh (78%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 6 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made all 6 packages (29%) in 2018-19. The fig. 4.20 showed the progress of procurement of the sub-project by fiscal year.



11. Development of Integrated Crop Management Technologies for Higher Production of Coconut in Bangladesh (ID# 026)

a) Progress of Field Activities

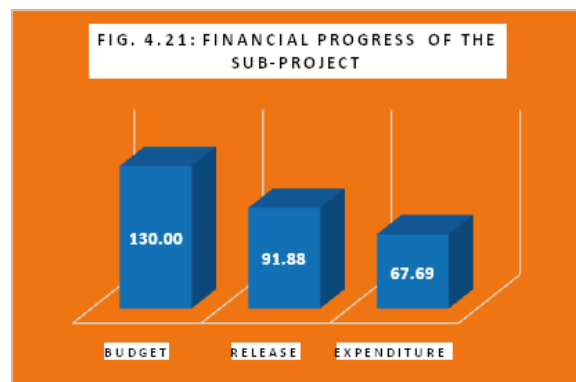
The sub-project ID # 026 has 4 components being implemented by HRC, BARI, Entomology division, BARI, plant pathology, BARI and SSURDA (Table 4.11) with a view to development of integrated crop management packages on production and protection aspects of coconut. The sub-project set 4 objectives (1 by HRC, BARI; 1 by Entomology division, BARI; 1 by plant pathology, BARI and 1 by SSURDA) and to satisfy the objectives it has executed 17 major activities of which 4 implemented by HRC, BARI; 4 by Entomology division, BARI; 5 by Plant pathology division, BARI and 4 by SSURDA. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.11 by the components. The sub-project partially complied the set objectives as validation of technology by selected NGO delayed due to COVID 19. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 3 months for the sub-projects.

Table 4.11: Progress of field activities and time required for sub-project ID # 026 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
HRC, BARI	1	4	1	3	0	6
Entomology Division, BARI	1	4	1	3	0	6
Pathology Division, BARI	1	5	2	3	0	0
SSURDA	1	4	2	2	0	0
Total	4	17	6	11	0	12
Average	1	4	2	3	0	3

b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.21. The total budget of the sub-project is BDT 130.00.00 lakh of which BDT 91.88 lakh (71%) has been released by the PIU-BARC and BDT 67.69 lakh (52%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The sub-project ID # 026 had no target of procurement packages in the sub-project design.

12. Up-scaling of Mud crab (*Scylla olivacea*) Aquaculture in Bangladesh: Adoption of Innovative Techniques from Seed Production to Fattening and Health Management (ID# 029)

a) Progress of Field Activities

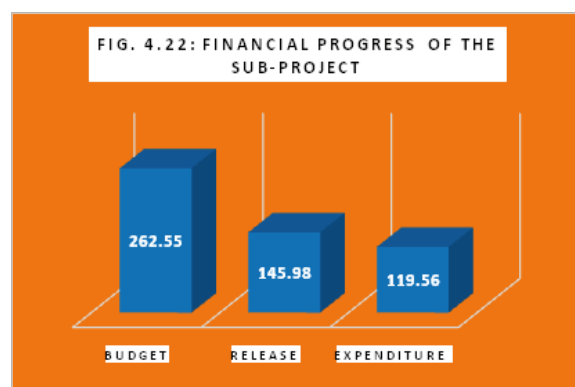
The sub-project ID # 029 has 4 components being implemented by BFRI, BARC, BFRI, Paikgacha and KU (Table 4.12) with a view to development and establish a framework of mud crab aquaculture for sustainable production through conducting research on each critical stages of life cycle in accounting the pathogenic (microbial) threats on respective stages. The sub-project set 13 objectives (1 by BFRI, 5 by BARC; 4 by BFRI, Paikgacha and 8 by KU) and to satisfy the objectives it has executed 23 major activities of which 4 implemented by BFRI; 8 by BFRI, Paikgacha; and 8 by KU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.12 by the components. The sub-project mostly complied the set objectives by producing and reducing the mortality of mud crab fry. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.12: Progress of field activities and time required for sub-project ID # 029 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest Activities	Time required for completion (month)
BFRI, Mymensingh	1	4	0	4	0	6
BARC	5	3	0	3	0	6
BFRI, Paikgacha	4	8	1	6	1	6
KU	3	8	3	5	0	3
Total	13	23	4	18	1	21
Average	3	6	1	5	0	5

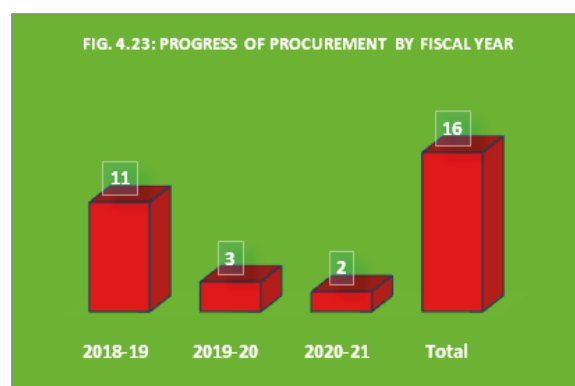
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.22. The total budget of the sub-project is BDT 262.55 lakh of which BDT 145.98 lakh (56%) has been released by the PIU-BARC and BDT 119.56 lakh (46%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 26 by different components. By November 2020, the sub-project completed 16 packages (62%) of the procurement of which it made 11 packages (29%) in 2018-19, 3 packages in 2019-20 and 2 packages in 2020-21. The fig. 4.23 showed the progress of procurement of the sub-project by fiscal year.



13. Investigation and Characterization of Viral and Bacterial Diseases in Highly Consumed Fin Fishes and Shrimp in Bangladesh and Development of their Vaccines and Validation (ID# 030)

a) Progress of Field Activities

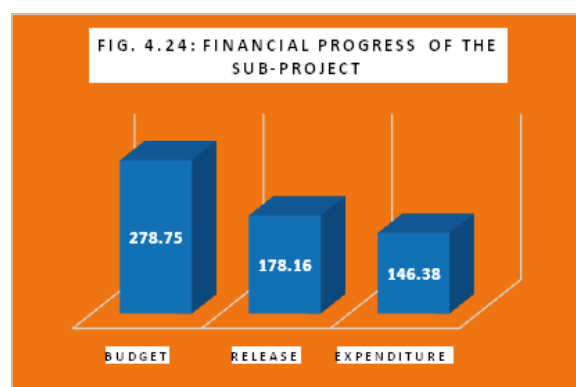
The sub-project ID # 030 has 3 components being implemented by BFRI, BARC, and BAU (Table 4.13) with a view to control and reduce mass mortality of fin and shell fish due to bacterial and viral diseases and characterization the causative agents through biological and molecular methods to establish better health management practices in fin and shell fish aquaculture with increased productivity. The sub-project set 13 objectives (3 by BFRI, 6 by BARC; 4 by BAU) and to satisfy the objectives it has executed 18 major activities of which 3 implemented by BFRI, 3 by BARC; and 12 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.13 by the components. The sub-project mostly complied the set objectives by developing the vaccines, which are under completion of field trials. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.13: Progress of field activities and time required for sub-project ID # 030 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	6	3	0	0	0	6
BFRI	3	3	3	0	0	6
BAU	4	12	11	1	0	2
Total	13	18	14	14	0	14
Average	4	56	5	01	0	5

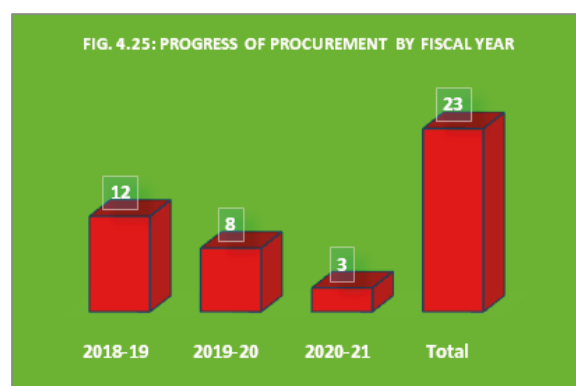
b) Financial Progress

The updated financial progress of the sub-project ID # 030 is shown in the fig. 4.24. The total budget of the sub-project is BDT 278.75 lakh of which BDT 178.16 lakh (64%) has been released by the PIU-BARC and BDT 146.38 lakh (53%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project ID # 030 was 25 by different components. By November 2020, the sub-project completed 23 packages (92%) of the procurement of which it made 12 packages (52%) in 2018-19, 8 packages (35%) in 2019-20 and 3 packages (13%) in 2020-21. The fig. 4.25 showed the progress of procurement of the sub-project by fiscal year.



14. Development of In-situ Breeding Technology of Prawn (*Macrobrachium rosenbergii*) and Adoption of Sustainable Eco-Friendly Culture of Prawn and Shrimp (*Penaeus monodon*) (ID# 031)

a) Progress of Field Activities

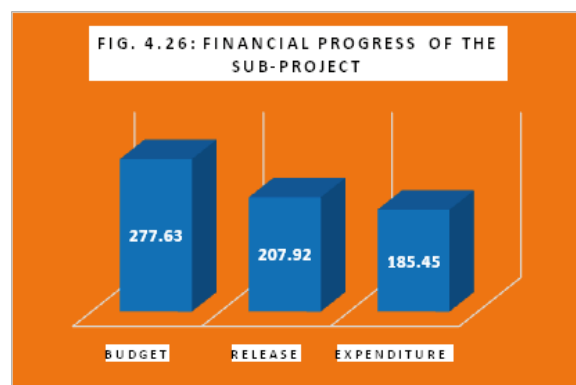
The sub-project ID # 031 has 4 components being implemented by BFRI, BARC, BFRI, Bagherhat and KU (Table 4.14) to boost up Shrimp/Prawn production using sophisticated breeding technique and grow out management with reference to disease diagnosis and preventive measures. The sub-project set 14 objectives (1 by BFRI; HQ5 by BARC; 5 by BFRI, Bagherhat; and 3 by KU) and to satisfy the objectives it has executed 30 major activities of which 6 implemented by BFRI, HQ, 4 by BARC; 5 by BFRI, Bagherhat; and 15 by KU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.14 by the components. The sub-project partially achieved the set objectives by establishing community based shrimp culture but the breeding techniques are yet to be established. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-project.

Table 4.14: Progress of field activities and time required for sub-project ID # 031 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BFRI, HQ	1	6	3	3	0	3
BARC	5	4	0	4	0	3
BFRI, Bagerhat	5	5	1	4	0	6
KU	3	15	11	4	0	2
Total	14	30	15	15	0	14
Average	4	8	4	4	0	4

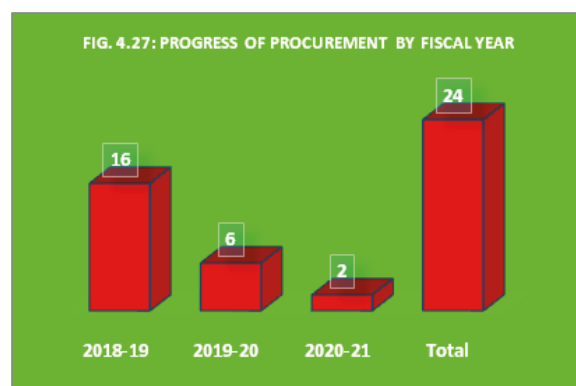
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.26. The total budget of the sub-project is BDT 277.63 lakh of which BDT 207.92 lakh (75%) has been released by the PIU-BARC and BDT 185.45 lakh (67%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 24 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 16 packages (67%) in 2018-19, 6 packages (25%) in 2019-20 and 2 packages (8%) in 2020-21. The fig. 4.27 showed the progress of procurement of the sub-project by fiscal year.



15. Sustainable Fisheries Development for Haor and Beel Community Through Improved Management Approach (ID#035)

a) Progress of Field Activities

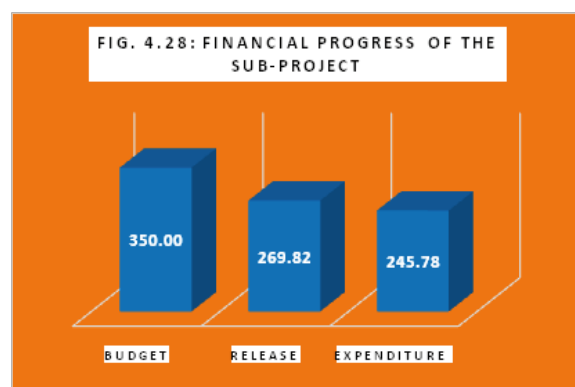
The sub-project ID # 035 has 4 components being implemented by BARC, SAU, SUST and RU (Table 4.15) to ensure sustainable fisheries development for haor and beel community through improved community based management approach. The sub-project set 18 objectives (6 by BARC; 5 by SAU; 4 by SUST; and 3 by RU) and to satisfy the objectives it has executed 42 major activities of which 17 implemented by SAU, 4 by BARC, 15 by SUST, and 6 by RU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.15 by the components. The sub-project mostly achieved the set objectives by establishing fish sanctuaries in haor and beel areas and showed significant increase in SIS of fishes in localities. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 6 months for the sub-project.

Table 4.15: Progress of field activities and time required for sub-project ID # 035 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	6	4	0	4	0	6
SAU	5	17	7	10	0	12
SUST	4	15	5	10	0	6
RU	3	6	6	0	0	0
Total	18	42	18	24	0	24
Average	5	11	5	6	0	6

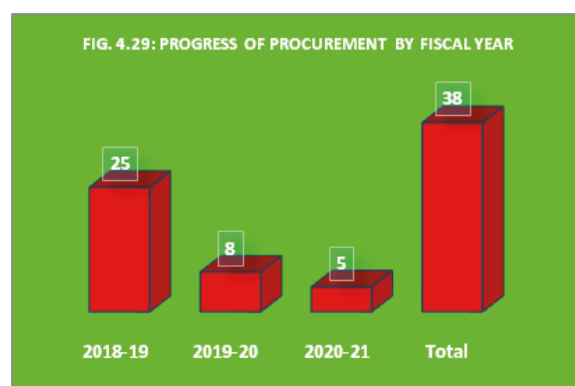
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.28. The total budget of the sub-project is BDT 350.00 lakh of which BDT 269.82 lakh (77%) has been released by the PIU-BARC and BDT 245.78 lakh (70%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 39 by different components. By November 2020, the sub-project completed 38 packages (97%) of the procurement of which it made 25 packages (66%) in 2018-19, 8 packages (21%) in 2019-20 and 5 packages (13%) in 2020-21. The fig. 4.29 showed the progress of procurement of the sub-project by fiscal year.



16. Post-harvest Losses, Supply and Value Chain Analysis of Fisheries Sub-sector in Bangladesh (ID #036)

a) Progress of Field Activities

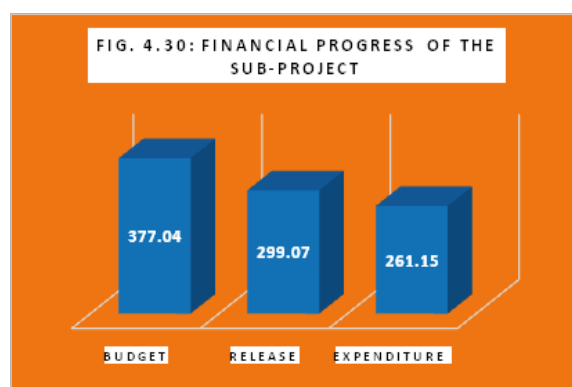
The sub-project ID # 036 has 3 components being implemented by BARC, BAU and PSTU (Table 4.16) to assess post-harvest losses in each nodes of supply and value chain of capture, culture and marine fisheries in Bangladesh. The sub-project set 13 objectives (5 by BARC; 4 by BAU; and 4 by PSTU) and to satisfy the objectives it has executed 20 major activities of which 9 implemented by BAU, and 7 by PSTU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.16 by the components. The sub-project mostly achieved the set objectives by collecting data from different stakeholders. The conclusion is to be made after analyzing the data and reporting. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-project.

Table 4.16: Progress of field activities and time required for sub-project ID # 036 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	5	4	1	3	0	6
BAU	4	9	4	5	0	2
PSTU	4	7	5	2	0	3
Total	13	20	10	10	0	11
Average	4	7	3	3	0	4

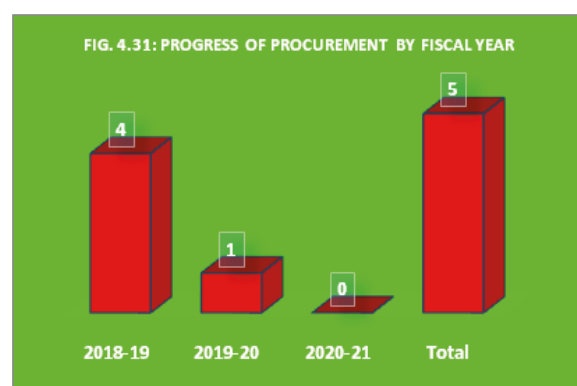
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.30. The total budget of the sub-project is BDT 377.04 lakh of which BDT 299.07 lakh (79%) has been released by the PIU-BARC and BDT 261.15 lakh (69%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 5 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 4 packages (80%) in 2018-19, 01 packages (20%) in 2019-20 and nilin 2020-21. The fig. 4.31 showed the progress of procurement of the sub-project by fiscal year.



17. Improvement of Existing Fattening Technology of Carp and High Valued Small Indigenous Species (SIS) Through Good Aquaculture Practices (GAP) in Different Agro-ecosystems (ID# 037)

a) Progress of Field Activities

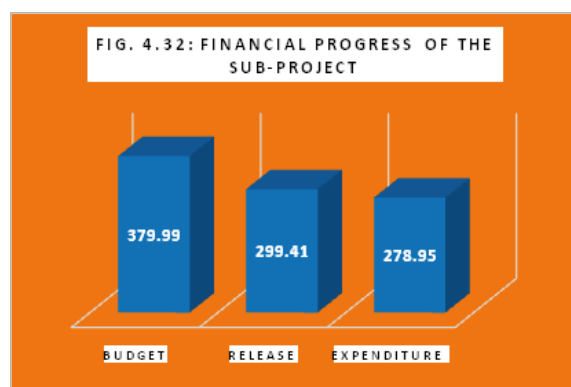
The sub-project ID # 037 has 3 components being implemented by BARC, SAU, SUST and RU (Table 4.17) to capture good aquaculture practices by developing sustainable technology for drought prone & coastal areas and to adapt high valued SIS fish farming as income generation for distressed rural women by utilizing homestead water bodies. The sub-project set 15 objectives (6 by BARC; 5 by RU; and 4 by PSTU) and to satisfy the objectives it has executed 32 major activities of which 10 implemented by RU, 5 by BARC and 17 by PSTU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.17 by the components. The sub-project partially achieved the set objectives by culturing SIS fish species in the ditches of homestead and northern region of the country. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-project.

Table 4.17: Progress of field activities and time required for sub-project ID # 037 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	6	5	2	3	0	6
RU	5	10	9	1	0	3
PSTU	4	17	15	2	0	4
Total	15	32	26	6	0	13
Average	5	11	9	2	0	4

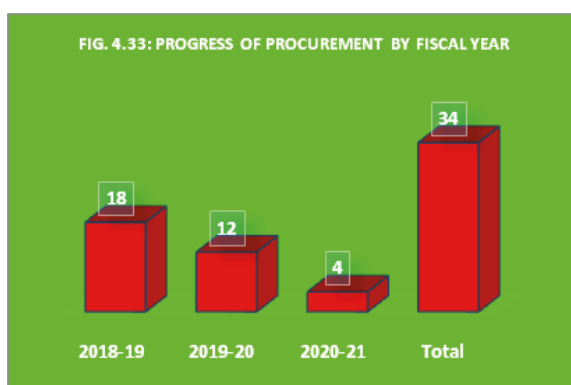
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.32. The total budget of the sub-project is BDT 379.99 lakh of which BDT 299.41 lakh (79%) has been released by the PIU-BARC and BDT 278.95 lakh (73%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 34 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 18 packages (53%) in 2018-19, 12 packages (35%) in 2019-20 and 4 packages (12%) in 2020-21. The fig. 4.33 showed the progress of procurement of the sub-project by fiscal year.



18. Microbial Characterization of Bangladesh Soil and Development of Climate Smart Bio-fertilizers for Crop Production and Soil Fertility (ID# 043)

a) Progress of Field Activities

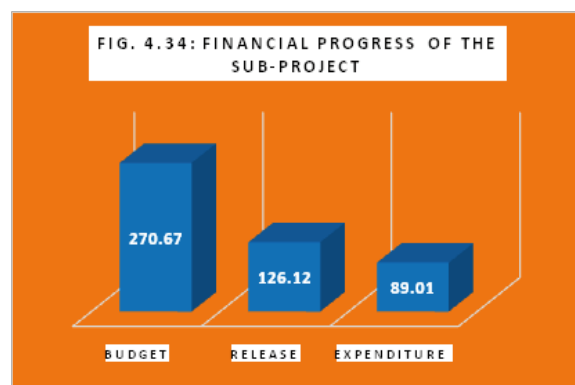
The sub-project ID # 043 has 3 components being implemented by BARC, BARI, BRRI, BINA and BSRI (Table 4.18) to develop bio-fertilizer for pulse, oilseed, & sugarcane and test their efficiency for crop productivity and soil fertility. The sub-project set 19 objectives (4 by BARC, 4 by BARI; 3 by BRRI; 4 by BINA and 4 by BSRI) and to satisfy the objectives it has executed 31 major activities of which 9 implemented by BARI, 7 by BRRI, 5 by BINA and 6 by BSRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.18 by the components. The sub-project mostly achieved the set objectives by setting trials with bio-fertilizers and showing good results but the patent to be established before commercialization of the fertilizer. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 7 months for the sub-project.

Table 4.18: Progress of field activities and time required for sub-project ID # 043 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	4	4	1	3	0	8
BARI	4	9	4	5	0	8
BRRI	3	7	1	6	0	6
BINA	4	5	2	3	0	12
BSRI	4	6	5	1	0	1
Total	19	31	13	18	0	35
Average	4	6	3	4	0	7

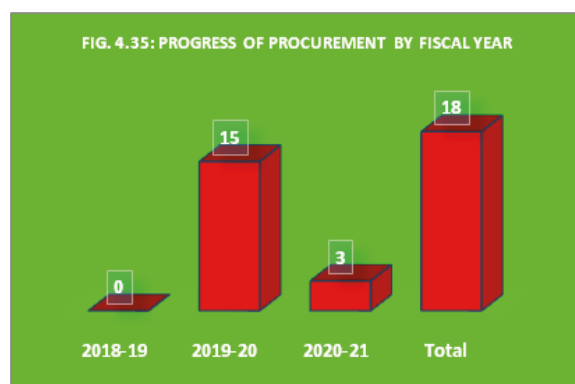
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.34. The total budget of the sub-project is BDT 270.67 lakh of which BDT 126.12 lakh (47%) has been released by the PIU-BARC and BDT 89.01 lakh (33%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 24 by different components. By November 2020, the sub-project completed 18 packages (75%) of the procurement of which it made 15 packages (83%) in 2019-20, 3 packages (17%) in 2020-21. The fig. 4.35 showed the progress of procurement of the sub-project by fiscal year.



19. Adaptation and Scaling up Agro-forestry for Livelihood Improvement of Farmers in Agricultural Ecosystem of Bangladesh (ID# 049)

a) Progress of Field Activities

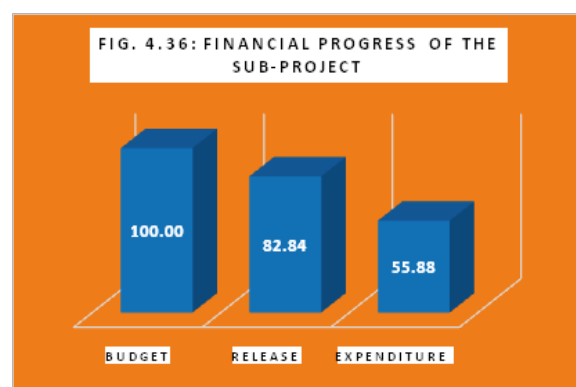
The sub-project ID # 049 has 2 components being implemented by BAR1 (Table 4.19) with a view to farmers' livelihood improvement and ensuring food security through adoption of innovative agro-forestry technologies. The sub-project set 6 objectives (3 by OFRD, BARI; and 3HRC, by BARI) and to satisfy the objectives it has executed 22 major activities of which 19 implemented by OFRD, BARI; and 3 by HRC, BARI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.19 by the components. The sub-project partially achieved the set objectives by establishing agro-forestry model in the concerned localities. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.19: Progress of field activities and time required for sub-project ID # 049 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
OFRD, BARI	3	19	0	19	0	6
HRC, BARI	3	3	2	1	0	4
Total	6	22	2	20	0	10
Average	3	11	1	10	0	5

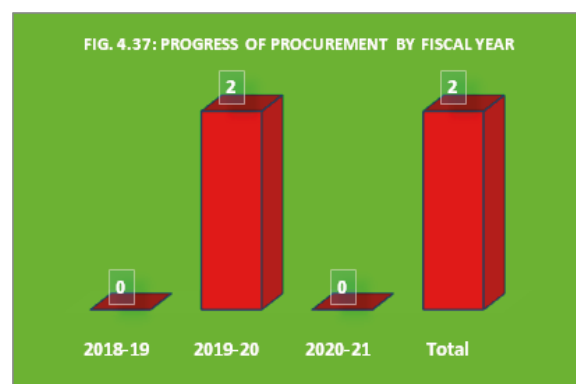
b) Financial Progress

The updated financial progress of the sub-project ID is shown in the fig. 4.36. The total budget of the sub-project is BDT 100.00 lakh of which BDT 82.84 lakh (83%) has been released by the PIU-BARC and BDT 55.88 lakh (56%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 3 by different components. By November 2020, the sub-project completed 2 packages (67%) of the procurement of which it made nil in 2018-19, 2 packages (100%) in 2019-20 and nil in 2020-21. The fig. 4.37 showed the progress of procurement of the sub-project by fiscal year.



20. Validation of Crop Intensification Technologies for Improving System Productivity, Soil Health and Farm Income in South Central Coastal Region (ID# 051)

a) Progress of Field Activities

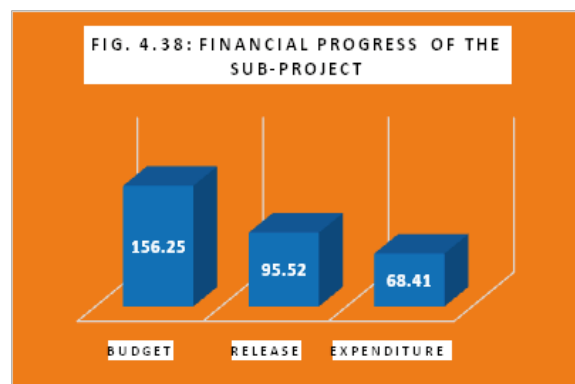
The sub-project ID # 051 has 4 components being implemented by BARI and ARF (Agrarian Research Foundation) (Table 4.20) to increase farm income through intensive crop production by improving farmers' knowledge and skill through on-farm trials on improved agricultural technologies in south central coastal region. The sub-project set 11 objectives (1 Director Res, BARI; 4 by Soil Sc, BARI; 3 by Oil Seed, BARI and 3 by ARF) and to satisfy the objectives it has executed 43 major activities of which 9 implemented by Director Res, BARI; 10 by Soil Sc, BARI; 10 by Oil Seed, BARI and 14 by ARF. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.20 by the components. The sub-project mostly achieved the set objectives by establishing improved agricultural technologies in south central coastal region. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.20: Progress of field activities and time required for sub-project ID # 051 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
Director (Research), BARI	1	9	4	5	0	5
Soil Science Division, BARI	4	10	1	9	0	3
Oilseed Research Centre, BARI	3	10	5	5	0	5
Agrarian Research Foundation	3	14	5	9	0	5
Total	11	43	15	28	0	18
Average	3	11	4	7	0	5

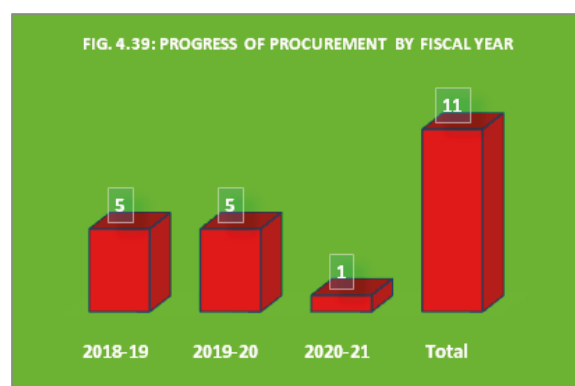
b) Financial Progress

The updated financial progress of the sub-project ID is shown in the fig. 4.38. The total budget of the sub-project is BDT 156.25 lakh of which BDT 95.52 lakh (61%) has been released by the PIU-BARC and BDT 68.41 lakh (44%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 15 by different components. By November 2020, the sub-project completed 11 packages (45%) of the procurement of which it made 5 packages (45%) in 2018-19, 5 packages (21%) in 2019-20 and 1 package (10%) in 2020-21. The fig. 4.39 showed the progress of procurement of the sub-project by fiscal year.



21. Introduction of Profitable and Agro-Ecologically Suitable Crop Varieties and Development of Marketing Systems for the Char land of Northern Bangladesh (ID# 054)

a) Progress of Field Activities

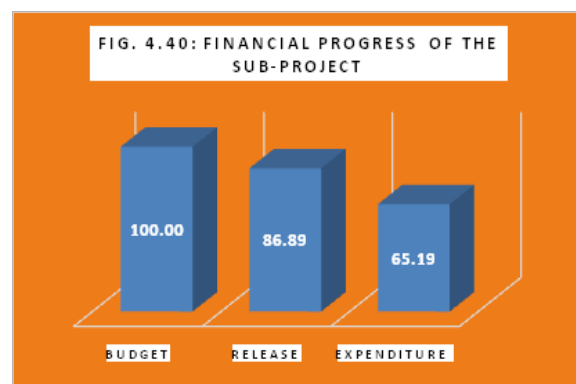
The sub-project ID # 054 has 3 components being implemented by BARI and BAU (Table 4.21) to improve farmers' livelihood through introducing high value crops and development of marketing system. The sub-project set 9 objectives (3 by BARC, 3 by OFRD, BARI; 3 by OFRD Rajshahi, BAR and 3 by BAU) and to satisfy the objectives it has executed 27 major activities of which 21 implemented by OFRD Rajshahi, BARI and 3 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.21 by the components. The sub-project partially achieved the set objectives by establishing whole farm approach technology among the beneficiaries. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 6 months for the sub-project.

Table 4.21: Progress of field activities and time required for sub-project ID # 054 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
OFRD, BARI	3	3	0	3	0	6
OFRD, Rajshahi	3	21	5	16	0	6
BAU	3	3	2	1	0	6
Total	9	27	7	20	0	18
Average	3	9	2	7	0	6

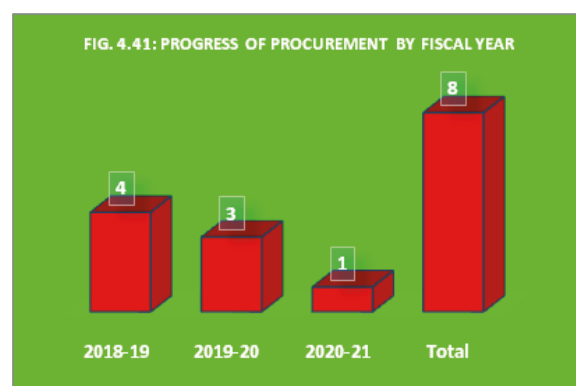
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.40. The total budget of the sub-project is BDT 350.00 lakh of which BDT 269.82 lakh (87%) has been released by the PIU-BARC and BDT 245.78 lakh (65%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 8 by different components. By November 2020, the sub-project completed 4 packages (50%) of the procurement of which it made 3 packages (38%) in 2018-19, 7 packages (44%) in 2019-20 and 01 package (12%) in 2020-21. The fig. 4.41 showed the progress of procurement of the sub-project by fiscal year.



22. Integrated Farming Research and Development for Livelihood Improvement in the Plain land Eco-system (ID# 061)

a) Progress of Field Activities

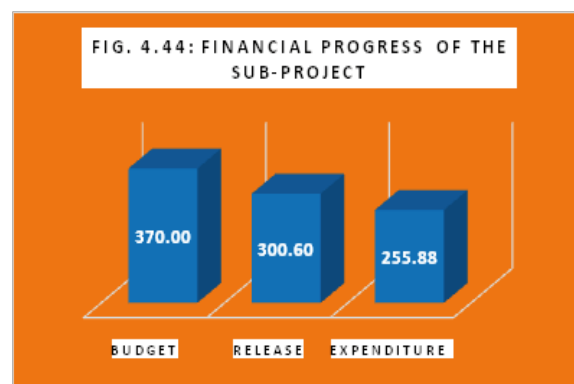
The sub-project ID # 061 has 4 components being implemented by BARC, BARI, BIRRI and BFRI (Table 4.22). The sub-project set 12 objectives (2 by BARC; 4 by BARI; 2 by BIRRI; and 4 by BFRI) and to satisfy the objectives it has executed 52 major activities of which 12 implemented by BARC, 16 by BARI, 15 by BIRRI, and 9 by BFRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.22 by the components. The main objective of the sub-project is to improve livelihood of rural households through generation and adoption of Farming System Technologies. The sub-project partially achieved the set objectives by establishing farming systems approaches in the rural farms of project beneficiaries. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 3 months for the sub-project.

Table 4.22: Progress of field activities and time required for sub-project ID # 061 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	12	4	8	0	6
BARI	4	16	5	11	0	2
BIRRI	2	15	3	12	0	3
BFRI	4	9	6	3	0	1
Total	12	52	18	34	0	12
Average	3	13	5	9	0	3

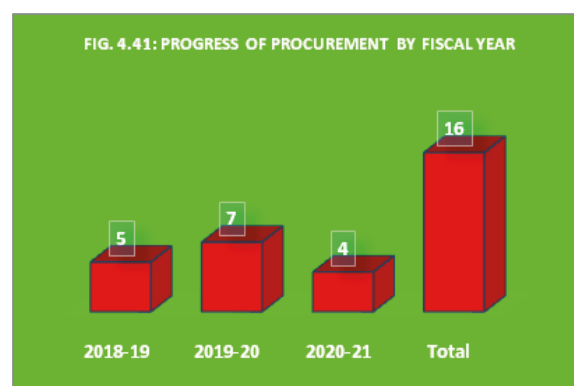
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.44. The total budget of the sub-project is BDT 370.00 lakh of which BDT 300.60 lakh (81%) has been released by the PIU-BARC and BDT 255.88 lakh (69%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 17 by different components. By November 2020, the sub-project completed 16 packages (94%) of the procurement of which it made 5 packages (31%) in 2018-19, 7 packages (44%) in 2019-20 and 4 packages (25%) in 2020-21. The fig. 4.45 showed the progress of procurement of the sub-project by fiscal year.



23. Design and Development of Fertilizer Deep Placement Mechanism for Existing Rice Transplanter (ID# 064)

a) Progress of Field Activities

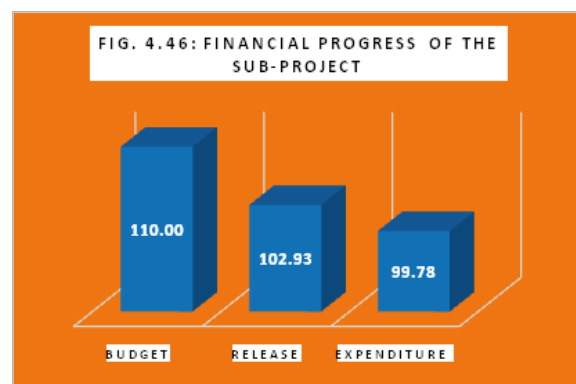
The sub-project ID # 064 has 2 components being implemented by BRRRI (Table 4.23) to incorporate fertilizer deep placement (FDP) technology in the existing walking and riding type rice transplanter for simultaneous application of fertilizer mixture with rice seedlings transplanting. The sub-project set 10 objectives (5 by FMPHT, BRRRI; 5 by Soil Science, BRRRI) and to satisfy the objectives it has executed 18 major activities of which 13 implemented by FMPHT, BRRRI, and 5 Soil Science, BRRRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.23 by the components. The sub-project mostly achieved the set objectives by fabricating the transplanter as per set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 2 months for the sub-project.

Table 4.23: Progress of field activities and time required for sub-project ID # 064 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
FMPHT, BRRRI	5	13	5	8	0	2
Soil Sci, BRRRI	5	5	0	5	0	1
Total	10	18	5	13	0	3
Average	5	9	3	7	0	2

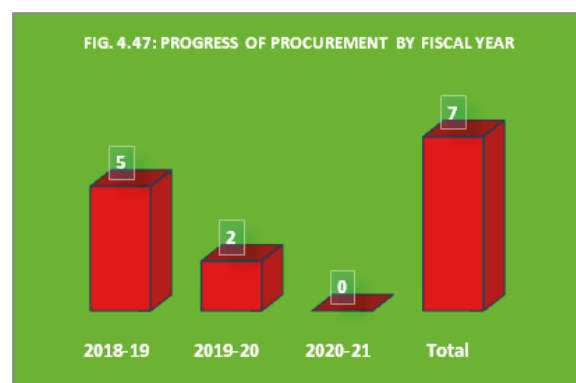
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.46. The total budget of the sub-project is BDT 110.00 lakh of which BDT 102.93 lakh (94%) has been released by the PIU-BARC and BDT 99.78 lakh (91%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 7 by different components. By November 2020, the sub-project completed 7 packages (100%) the procurement of which it made 5 packages (71%) in 2018-19, 2 packages (29%) in 2019-20 and 3 packages (00%) in 2020-21. The fig. 4.47 showed the progress of procurement of the sub-project by fiscal year.



24. Economic Viability and Production Efficiency of Rice at Farm Level: A Macro Level Study in Bangladesh (ID# 070)

a) Progress of Field Activities

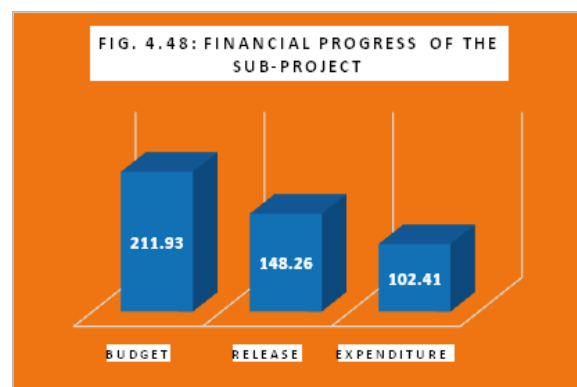
The sub-project ID # 070 has 2 components being implemented by BRRI and BAU (Table 4.24) to study the economic viability of Aus, T. Aman and Boro rice for three farm types in the different ecosystem of Bangladesh. The sub-project set 6 objectives (3 by BRRI; and 3 by BAU) and to satisfy the objectives it has executed 21 major activities of which 11 implemented by BRRI, and 10 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.24 by the components. The sub-project partially achieved the set objectives by collecting intensive data from the field. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 8 months for the sub-project.

Table 4.24: Progress of field activities and time required for sub-project ID # /070 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BRRI	3	11	5	5	1	8
BAU	3	10	5	5	0	7
Total	6	21	10	10	1	15
Average	3	11	5	5	1	8

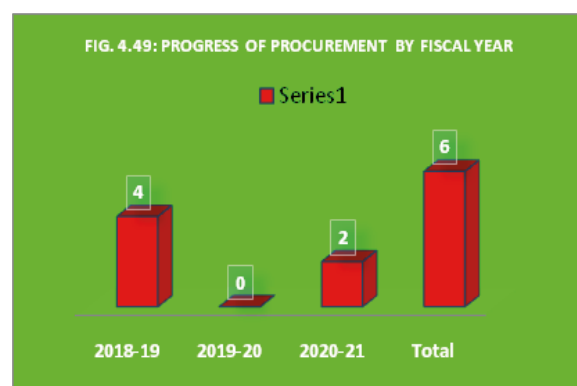
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.48. The total budget of the sub-project is BDT 211.98 lakh of which BDT 148.26 lakh (70%) has been released by the PIU-BARC and BDT 102.41 lakh (48%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 6 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 4 packages (67%) in 2018-19, 2 packages (33%) in 2019-20 and nil in 2020-21. The fig. 4.49 showed the progress of procurement of the sub-project by fiscal year.



25. Germplasm Conservation and Farm Productivity Enhancement through the Interaction of Shade Trees and Tea Based Agro-Forestry System to Mitigate the Climate Change (ID# 072)

a) Progress of Field Activities

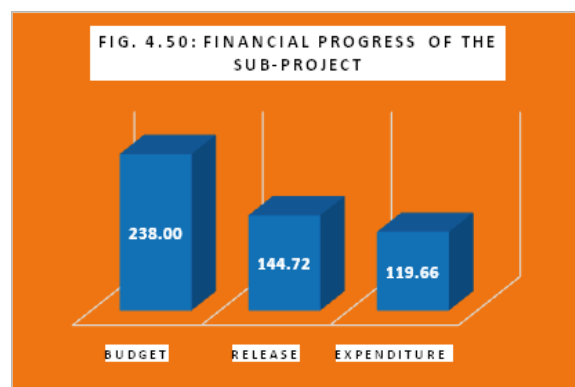
The sub-project ID # 072 has 3 components being implemented by BARC, SAU, and BTRI (Table 4.25) to develop sustainable tea based agro-forestry models to increase farm productivity and mitigating the climate change. The sub-project set 9 objectives (2 by BARC; 3 by SAU; and 4 by BTRI) and to satisfy the objectives it has executed 33 major activities of which 9 implemented by BARC, 10 by SAU, and 14 by BTRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.25 by the components. The sub-project partially achieved the set objectives by establishing tea clone nursery in SAU and by investigating efficacy of shade trees. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 18 months for the sub-project.

Table 4.25: Progress of field activities and time required for sub-project ID# 072 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest Activities	Time required for completion (month)
BARC	2	9	4	5	0	6
SAU	3	10	0	10	0	24
BTRI	4	14	2	12	0	24
Total	9	33	6	27	0	54
Average	3	11	2	9	0	18

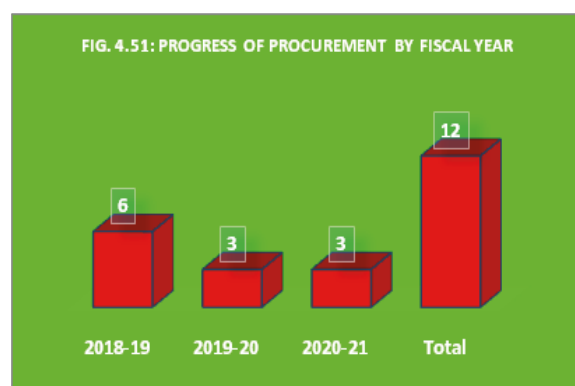
b) Financial Progress

The updated financial progress of the sub-project ID is shown in the fig. 4.50. The total budget of the sub-project is BDT 238.00 lakh of which BDT 144.72 lakh (61%) has been released by the PIU-BARC and BDT 119.66 lakh (50%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 16 by different components. By November 2020, the sub-project completed 12 packages (75%) the procurement of which it made 6 packages (50%) in 2018-19, 3 packages (25%) in 2019-20 and 3 packages (25%) in 2020-21. The fig. 4.51 showed the progress of procurement of the sub-project by fiscal year.



26. Identification, Multiplication and Ex-situ Conservation of Endangered Forest Genetic Resources including Medicinal Plants of Bangladesh (ID# 074)

a) Progress of Field Activities

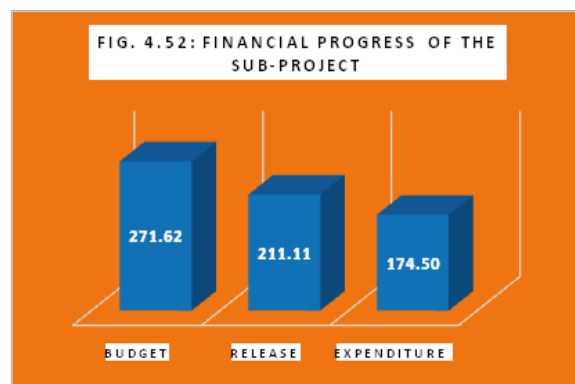
The sub-project ID # 074 has 4 components being implemented by BARC, BAU, BFRI and CU (Table 4.26) to collect, identify, characterize & documentation of forest genetic resource and medicinal plants of Bangladesh. The sub-project set 10 objectives (1 by BARC; 3 by BAU; 2 by BFRI; and 2 by CU) and to satisfy the objectives it has executed 27 major activities of which 9 implemented by BARC, 3 by BAU, 8 by BFRI, and 7 by CU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.26 by the components. The sub-project mostly achieved the set objectives by collected and establishing forest medicinal plants at BFRI. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 7 months for the sub-project.

Table 4.26: Progress of field activities and time required for sub-project ID # 074 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	1	9	4	5	0	6
BAU	3	3	2	1	0	8
BFRI	2	8	1	7	0	6
CU	4	7	0	7	0	6
Total	10	27	7	20	0	26
Average	3	7	2	5	0	7

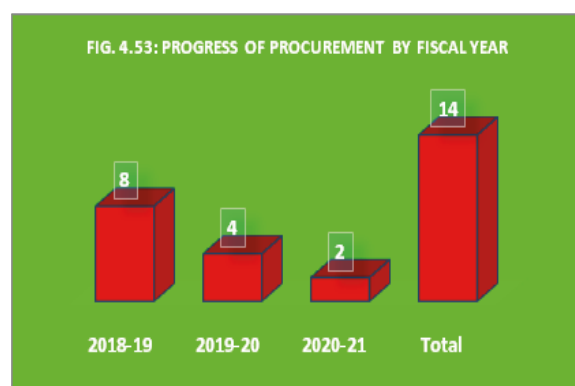
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.52. The total budget of the sub-project is BDT 271.62 lakh of which BDT 211.11 lakh (78%) has been released by the PIU-BARC and BDT 174.50 lakh (64%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 15 by different components. By December 2020, the sub-project completed 14 packages (80%) of the procurement of which it made 8 packages (57%) in 2018-19, 4 packages (29%) in 2019-20 and 2 packages (14%) in 2020-21. The fig. 4.53 showed the progress of procurement of the sub-project by fiscal year.



27. Upliftment of Farmers Livelihood and Enrichment of Environment through Improved Agroforestry Practices in Char Land Ecosystem of Bangladesh (ID# 077)

a) Progress of Field Activities

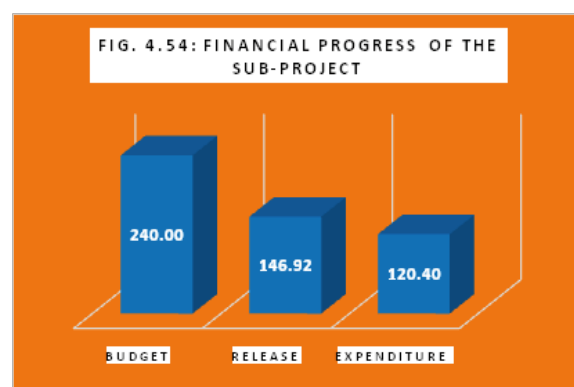
The sub-project ID # 077 has 4 components being implemented by BARC, Agro-forestry, BAU;BARI, and Agril. Econ, BAU; (Table 4.27) to identify existing agro-forestry practices (suitable cropping pattern, crops and varieties, etc.) and develop improve agro-forestry models to increase forest resources, sustainable environment, food security and poverty alleviation. The sub-project set 9 objectives (1 by BARC; 2 by Agro-forestry BAU, 2 by BARI; and 4 by Agril. Econ, BAU) and to satisfy the objectives it has executed 35 major activities of which 7 implemented by BARC, 16 by Agro-forestry, BAU; and 7 by Agril. Econ, BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.27 by the components. The sub-project partially achieved the set objectives by establishing agro-forestry models in the selected locations. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 3 months for the sub-project.

Table 4.27: Progress of field activities and time required for sub-project ID # 077 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
3	4	5	6	7	8	9
BARC	1	7	5	2	0	6
Agro-forestry, BAU	2	16	9	7	0	6
BARI	2	5	3	2	0	0
Agril Econ, BAU	4	7	5	2	0	0
Total	9	35	22	13	0	12
Average	2	9	6	3	0	3

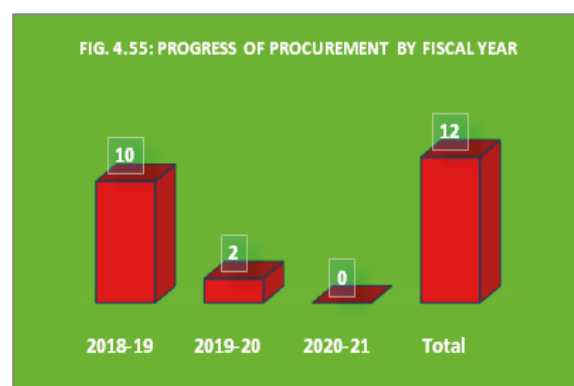
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.54. The total budget of the sub-project is BDT 290.10 lakh of which BDT 211.44 lakh (73%) has been released by the PIU-BARC and BDT 178.28 lakh (60%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 15 by different components. By November 2020, the sub-project completed 12 packages (80%) of the procurement of which it made 10 packages (83%) in 2018-19, 2 packages (17%) in 2019-20 and nil in 2020-21. The fig. 4.55 showed the progress of procurement of the sub-project by fiscal year.



28. Eco-friendly Rodent Management Through Owl Conservation (ID# 087)

a) Progress of Field Activities

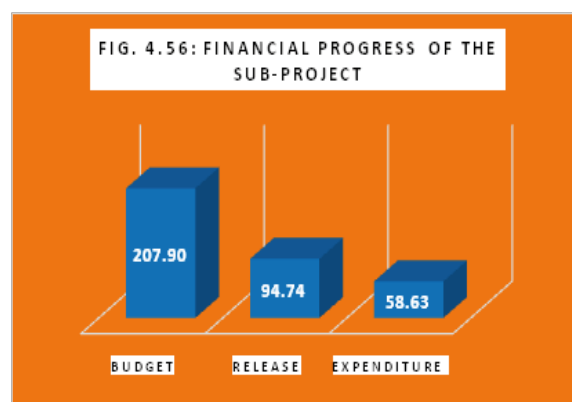
The sub-project ID # 087 has 2 components being implemented by BRRI and BARI (Table 4.28) for sustainable rat management through owl conservation. The sub-project set 6 objectives (3 by BRRI; and 3 by BARI) and to satisfy the objectives it has executed 21 major activities of which 12 implemented by BRRI, and 9 by BARI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.28 by the components. The sub-project is yet to achieve the set objectives by establishing owl aviary at BRRI. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 8 months for the sub-project.

Table 4.28: Progress of field activities and time required for sub-project ID # 087 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BRRI	3	12	0	12	0	12
BARI	3	9	0	9	0	12
Total	6	21	0	21	0	24
Average	2	7	0	7	0	8

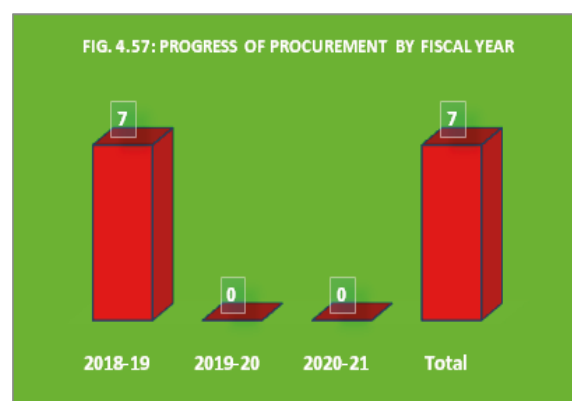
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.56. The total budget of the sub-project is BDT 207.90 lakh of which BDT 94.74 lakh (46%) has been released by the PIU-BARC and BDT 58.63 lakh (28%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 13 by different components. By November 2020, the sub-project completed 7 packages (54%) of the procurement of which it made 7 packages (100%) in 2018-19, 0 packages (00%) in 2019-20 and 0 packages (00%) in 2020-21. The fig. 4.57 showed the progress of procurement of the sub-project by fiscal year.



29. Establishment of Profitable Cropping Pattern through Crop Intensification in Underutilized Unfavorable Ecosystem (ID# 089)

a) Progress of Field Activities

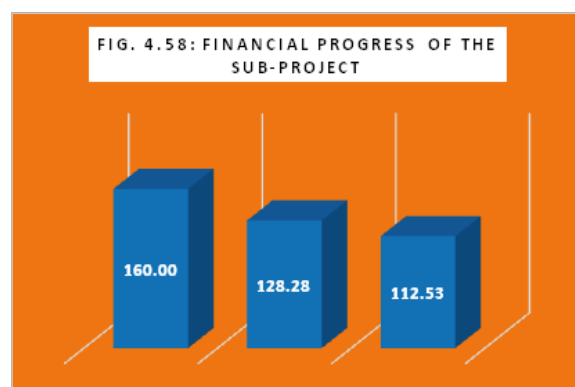
The sub-project ID # 089 has 4 components being implemented by BINA (Table 4.29) to increasing cropping intensity through introducing improved cropping patterns for improving the farmers' livelihood. The sub-project set 8 objectives (3 by adaptive research and extension division of BINA and 2 by Agril Econ division of BINA) and to satisfy the objectives it has executed 24 major activities of which 7 implemented by plant breeding division of BINA; 10 by adaptive research and extension division of BINA and 7 by Agril Econ division of BINA. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.29 by the components. The sub-project mostly achieved the set objectives by establishing improved cropping patterns with BINA varieties in the concerned locations. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 12 months for the sub-project.

Table 4.29: Progress of field activities and time required for sub-project ID # 087 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
Plant Breeding Division, BINA	3	7	2	4	1	12
Adaptive Research and Extension Division, BINA	3	10	1	8	1	12
Agricultural Economics Division, BINA	2	7	3	3	1	12
Total	8	24	6	15	3	36
Average	3	8	2	5	1	12

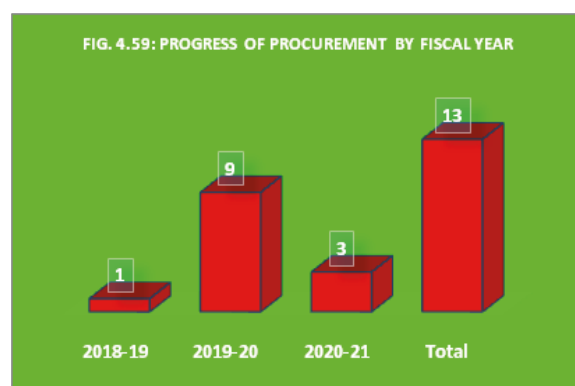
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.58. The total budget of the sub-project is BDT 160.00 lakh of which BDT 128.28 lakh (80%) has been released by the PIU-BARC and BDT 112.58 lakh (70%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 13 by different components. By November 2020, the sub-project completed 13 packages (100%) of the procurement of which it made 01 packages (8%) in 2018-19, 9 packages (69%) in 2019-20 and 3 packages (23%) in 2020-21. The fig. 4.59 showed the progress of procurement of the sub-project by fiscal year.



30. Identification of Novel Resistant Gene(s), Gene Pyramiding and Sustainable Management of Bacterial Blight (BB) Disease of Rice for Ensuring Food Security (ID# 091)

a) Progress of Field Activities

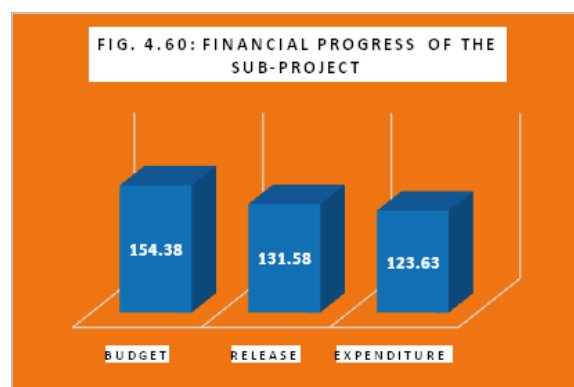
The sub-project ID # 091 has 2 components being implemented by BRRRI and BAU (Table 4.30) to manage bacterial blight disease through gene pyramiding and biological approaches. The sub-project set 4 objectives (3 by BRRRI and 4 by BAU) and to satisfy the objectives it has executed 20 major activities of which 10 implemented by BRRRI, and 10 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.30 by the components. The sub-project mostly achieved the set objectives by identifying BB resistant rice gene which would be used for BB resistant rice variety by BRRRI. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 2 months for the sub-project.

Table 4.30: Progress of field activities and time required for sub-project ID # 091 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BRRRI	3	10	8	2	0	2
BAU	4	10	6	4	0	2
Total	7	20	14	6	0	4
Average	4	10	7	3	0	2

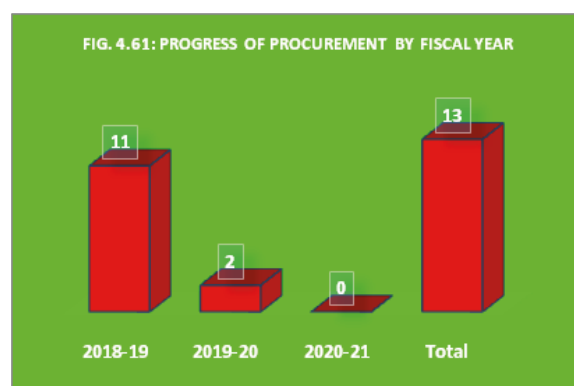
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.60. The total budget of the sub-project is BDT 154.38 lakh of which BDT 131.58 lakh (85%) has been released by the PIU-BARC and BDT 123.63 lakh (80%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 20 by different components. By November 2020, the sub-project completed 13 packages (65%) of the procurement of which it made 11 packages (85%) in 2018-19, and 2 packages (15%) in 2019-20 and nil in 2020-21. The fig. 4.61 showed the progress of procurement of the sub-project by fiscal year.



31. Improvement of Farm Productivity through Intervention with Improved Agricultural Technologies in Char land Eco-System (ID# 096)

a) Progress of Field Activities

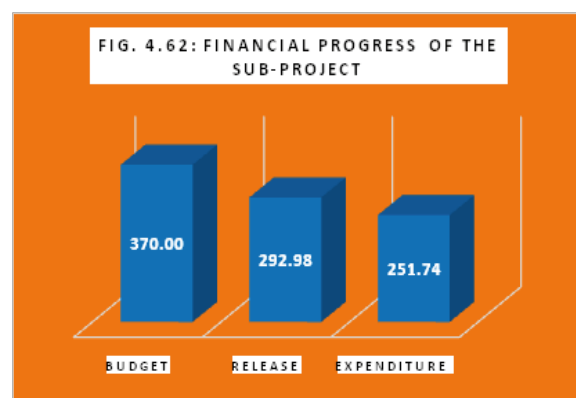
The sub-project ID # 096 has 5 components being implemented by BARC, BARI, BLRI, BINA, and BSRI (Table 4.31) to increase farm productivity of char land area intervening whole farm activities. The sub-project set 15 objectives (2 by BARC; 3 by BARI; 3 by BLRI; 4 by BINA and 3 by BSRI) and to satisfy the objectives it has executed 48 major activities of which 12 implemented by BARC, 14 by BARI, 3 by BLRI, 10 by BINA and 9 by BSRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.31 by the components. The sub-project mostly achieved the set objectives by establishing whole farm approach in the beneficiary farm households. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 3 months for the sub-project.

Table 4.31: Progress of field activities and time required for sub-project ID # 096 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	12	3	9	0	6
BARI	3	14	5	9	0	2
BLRI	3	3	0	3	0	2
BINA	4	10	4	6	0	2
BSRI	3	9	0	9	0	2
Total	15	48	12	36	0	14
Average	3	10	2	7	0	3

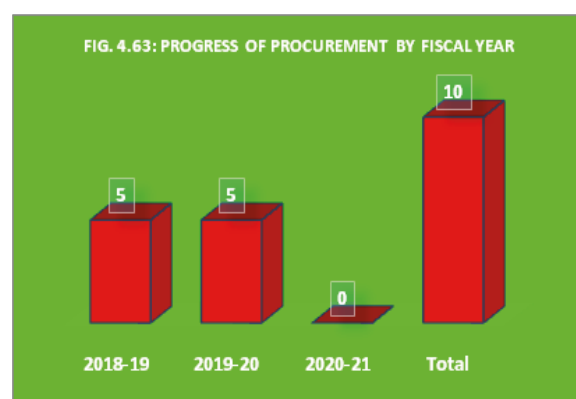
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.62. The total budget of the sub-project is BDT 370.00 lakh of which BDT 292.98 lakh (79%) has been released by the PIU-BARC and BDT 251.74 lakh (68%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 20 by different components. By November 2020, the sub-project completed 10 packages (50%) of the procurement of which it made 5 packages (50%) in 2018-19, 5 packages (50%) in 2019-20 and nil in 2020-21. The fig. 4.63 showed the progress of procurement of the sub-project by fiscal year.



32. Livelihood Improvement of Farmers through Integrated Farming System Research and Development of Drought and Rainfed Ecosystem (ID# 097)

a) Progress of Field Activities

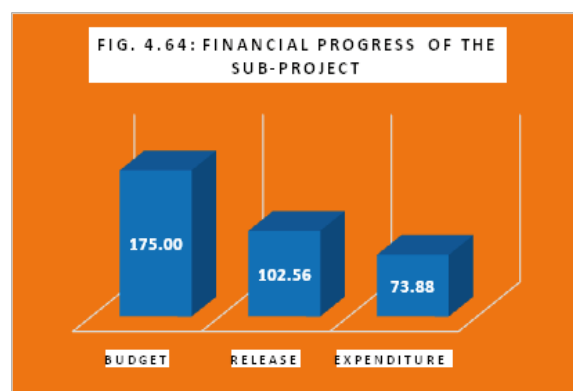
The sub-project ID # 097 has 3 components being implemented by BARC, BARI and BLRI (Table 4.32) to ensure sustainable fisheries development for haor and beel community through improved community based management approach. The sub-project set 9 objectives (2 by BARC; 4 by BARI; and 3 by BLRI) and to satisfy the objectives it has executed 30 major activities of which 11 implemented by BARC, 15 by BARI, and 4 by BLRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.32 by the components. The sub-project mostly achieved the set objectives by establishing fish sanctuaries in haor and beel areas and showed significant increase in SIS of fishes in localities. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 6 months for the sub-project.

Table 4.32: Progress of field activities and time required for sub-project ID # 097 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	11	4	7	0	6
BARI	4	15	1	14	0	6
BLRI	3	4	0	4	0	6
Total	9	30	5	25	0	18
Average	3	10	2	8	0	6

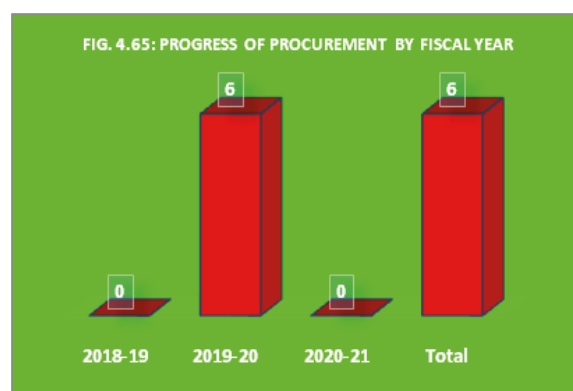
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.64. The total budget of the sub-project is BDT 175.00 lakh of which BDT 102.56 lakh (59%) has been released by the PIU-BARC and BDT 73.88 lakh (42%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 8 by different components. By November 2020, the sub-project completed 6 packages (73%) of the procurement of which it made 0 packages (00%) in 2018-19, 6 packages (100%) in 2019-20 and nil in 2020-21. The fig. 4.65 showed the progress of procurement of the sub-project by fiscal year.



33. Climate Resilient Farming Systems Research and Development for the Coastal Ecosystem (ID# 098)

a) Progress of Field Activities

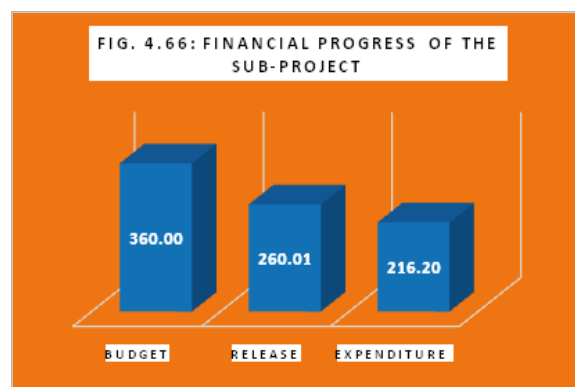
The sub-project ID # 098 has 4 components being implemented by BARC, BARI, BRRI and BINA Table 4.33) to maximize farm productivity with efficient use of farm resources. The sub-project partially achieved the set objectives by establishing whole farm approach technology in the selected farms. The sub-project set 12 objectives (2 by BARC; 3 by BARI; 3 by BRRI; and 4 by BINA) and to satisfy the objectives it has executed 64 major activities of which 12 implemented by BARC, 16 by BARI, 20 by BRRI and 16 by BINA. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.33 by the components. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.33: Progress of field activities and time required for sub-project ID # 098 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	12	4	8	0	6
BARI	3	16	5	11	0	2
BRRI	3	20	12	8	0	5
BINA	4	16	0	16	0	6
Total	12	64	21	43	0	19
Average	3	16	5	11	0	5

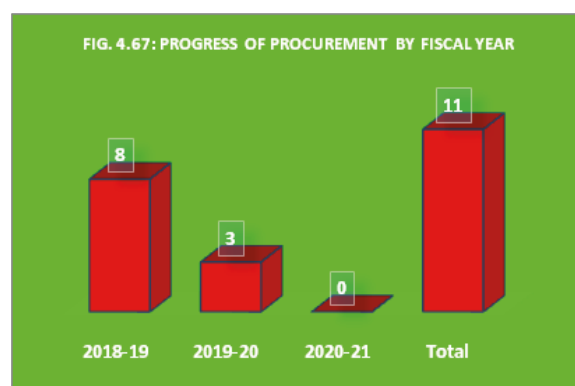
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.66. The total budget of the sub-project is BDT 360.00 lakh of which BDT 260.01 lakh (72%) has been released by the PIU-BARC and BDT 216.20 lakh (60%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 16 by different components. By November 2020, the sub-project completed 11 packages (69%) of the procurement of which it made 8 packages (73%) in 2018-19, 3 packages (27%) in 2019-20 and nil in 2020-21. The fig. 4.67 showed the progress of procurement of the sub-project by fiscal year.



34. Enrichment and Standardization of Nutritional Level in Selected Food items to Mitigate Human Malnutrition (ID#099)

a) Progress of Field Activities

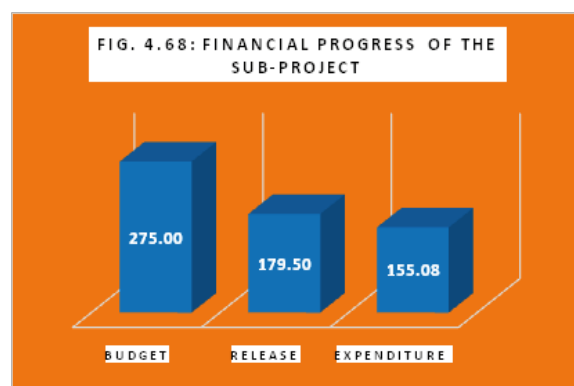
The sub-project ID # 099 has 4 components being implemented by BARC, BARI, BRRI and BAU (Table 4.34) to control qualitative reduction of food value and improvement of nutritional quality of rice, selected fruits/vegetable/herbal products through value addition. The sub-project set 15 objectives (5 by BARC; 4 by BARI; 3 by BRRI; and 3 by BAU) and to satisfy the objectives it has executed 48 major activities of which 7 implemented by BARI, 7 by BRRI, and 28 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.34 by the components. The sub-project partially comply the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.34: Progress of field activities and time required for sub-project ID # 099 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	5	6	2	4	0	6
BARI	4	7	4	3	0	6
BRRI	3	7	3	4	0	2
BAU	3	28	21	7	0	6
Total	15	48	30	18	0	20
Average	4	12	8	5	0	5

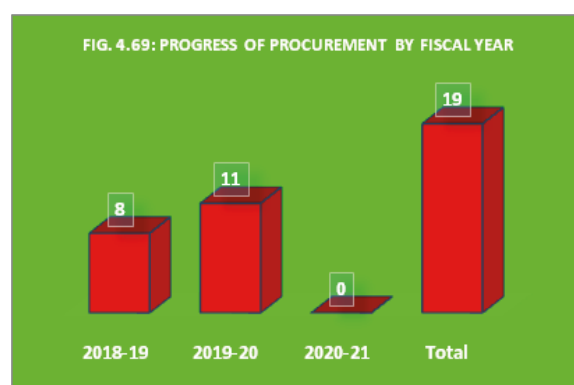
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.68. The total budget of the sub-project is BDT 275.00 lakh of which BDT 179.52 lakh (65%) has been released by the PIU-BARC and BDT 155.08 lakh (56%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 26 by different components. By November 2020, the sub-project completed 19 packages (73%) of the procurement of which it made 8 packages (42%) in 2018-19, 11 packages (58%) in 2019-20 and nil in 2020-21. The fig. 4.69 showed the progress of procurement of the sub-project by fiscal year.



35. Contamination and Adulteration of Food and Food Products, Process, Chain and Mollification (ID #103)

a) Progress of Field Activities

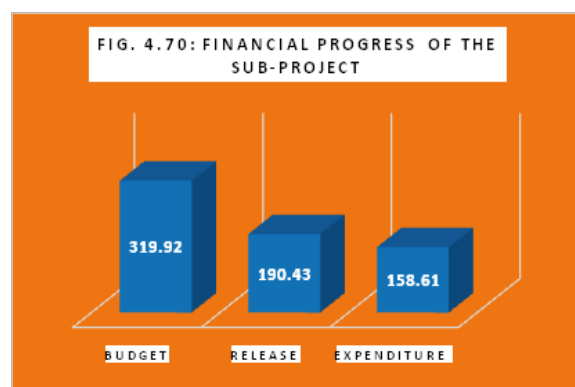
The sub-project ID # 103 has 3 components being implemented by BARC, BARI, and BFRI (Table 4.35) to develop a package of commercial ripening technology of selected fruits and vegetables at different stage and disseminate information/intervention on different postharvest practices and treatments for ensuring safe and secure fresh produce. The sub-project set 16 objectives (9 by BARC; 3 by BARI; and 4 by BFRI) and to satisfy the objectives it has executed 32 major activities of which 15 implemented by BARC, 9 by BARI, and 8 by BFRI. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.35 by the components. The sub-project partially achieved the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-project.

Table 4.35: Progress of field activities and time required for sub-project ID # 103 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest Activities	Time required for completion (month)
BARC	9	15	0	15	0	6
BARI	3	9	8	1	0	6
BFRI	4	8	5	3	0	1
Total	16	32	13	19	0	13
Average	5	11	4	6	0	4

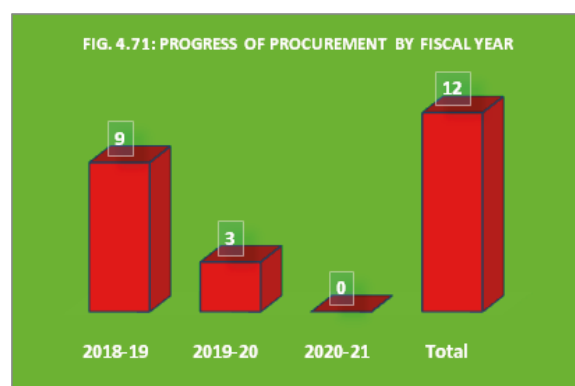
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.70. The total budget of the sub-project is BDT 319.92 lakh of which BDT 190.43 lakh (60%) has been released by the PIU-BARC and BDT 158.61 lakh (50%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 15 by different components. By November 2020, the sub-project completed 12 packages (75%) of the procurement of which it made 9 packages (75%) in 2018-19, 3 packages (25%) in 2019-20 and nil in 2020-21. The fig. 4.71 showed the progress of procurement of the sub-project by fiscal year.



36. Development of Knowledge Hub on Animal Feed Resources for Efficient Feeding Management of Ruminants to Enhance Productivity (ID #108)

a) Progress of Field Activities

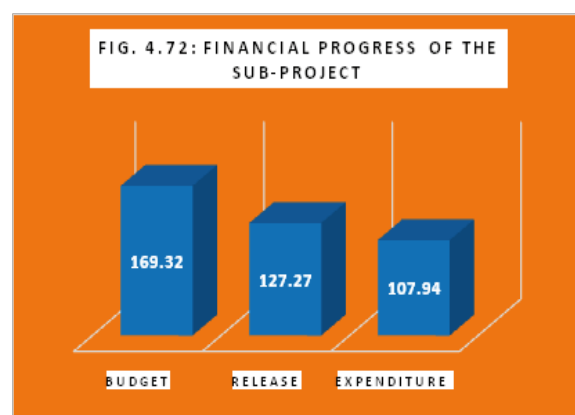
The sub-project ID # 108 has 4 components being implemented by BARC, BLRI, BAU and SAU (Table 4.36) to generate information for establishing national feed inventory on detailed feeds and fodder available in the country, their chemical composition and nutritive value which would ultimately help to model the specific feeding program in different regions and seasons over the year. The sub-project set 11 objectives (3 by BLRI; 3 by BAU; and 2 by SAU) and to satisfy the objectives it has executed 35 major activities of which 10 implemented by BARC, 6 by BLRI, 14 by BAU and 5 by SAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.36 by the components. The sub-project is yet to be achieved. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.36: Progress of field activities and time required for sub-project ID # 108 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	3	10	4	5	1	6
BLRI	3	6	1	4	1	6
BAU	3	14	0	14	0	6
SAU	2	5	3	2	0	3
Total	11	35	8	25	2	21
Average	3	9	2	6	1	5

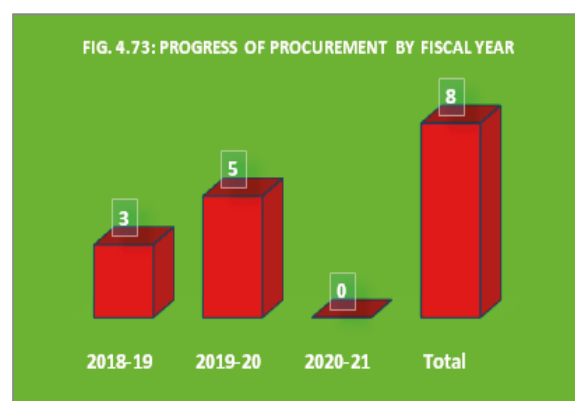
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.72. The total budget of the sub-project is BDT 169.32 lakh of which BDT 127.27 lakh (75%) has been released by the PIU-BARC and BDT 107.94 lakh (64%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 11 by different components. By December 2020, the sub-project completed 8 packages (62%) of the procurement of which it made 3 packages (38%) in 2018-19, 5 packages (63%) in 2019-20 and nil in 2020-21. The fig. 4.73 showed the progress of procurement of the sub-project by fiscal year.



37. Application of Gamma-ray Irradiation to Develop Stress Tolerant Capability in Fodder crops and their Production Performance under On-station and on-farm Conditions (ID#110)

a) Progress of Field Activities

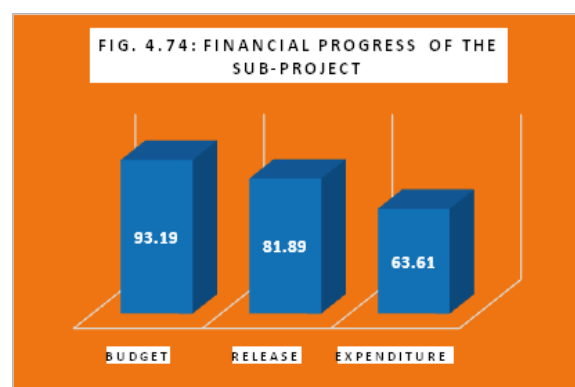
The sub-project ID # 110 has 3 components being implemented by BARC, BLRI, and BINA (Table 4.37) to develop stress tolerant fodder varieties for southern part of Bangladesh. The sub-project set 5 objectives (1 by BARC; 2 by BLRI; and 2 by BINA) and to satisfy the objectives it has executed 20 major activities of which 9 implemented by BARC, 7 by BLRI, and 4 by BINA. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.37 by the components. The sub-project partially achieved the set objectives by establishing trials on mutant line to select salt and drought tolerant fodder varieties. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 7 months for the sub-project.

Table 4.37: Progress of field activities and time required for sub-project ID # 110 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	1	9	3	5	1	6
BLRI	2	7	3	4	0	12
BINA	2	4	1	3	0	2
Total	5	20	7	12	1	20
Average	2	7	2	4	0	7

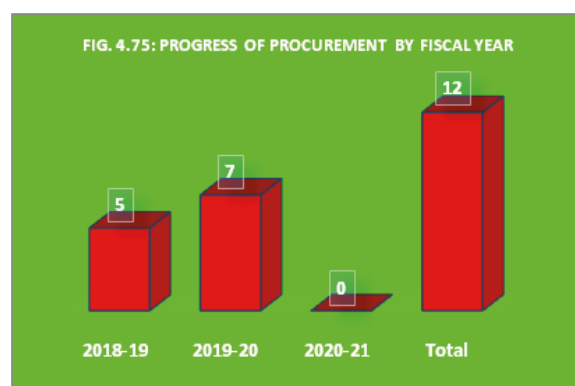
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.74. The total budget of the sub-project is BDT 93.19lakh of which BDT 81.89 lakh (88%) has been released by the PIU-BARC and BDT 63.61 lakh (68%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 14 by different components. By December 2020, the sub-project completed 12 packages (83%) of the procurement of which it made 5 packages (42%) in 2018-19, 7 packages (58%) in 2019-20 and nil in 2020-21. The fig. 4.75 showed the progress of procurement of the sub-project by fiscal year.



38. Collection and Characterization of Important Plant Genetic Resources (ID#128)

a) Progress of Field Activities

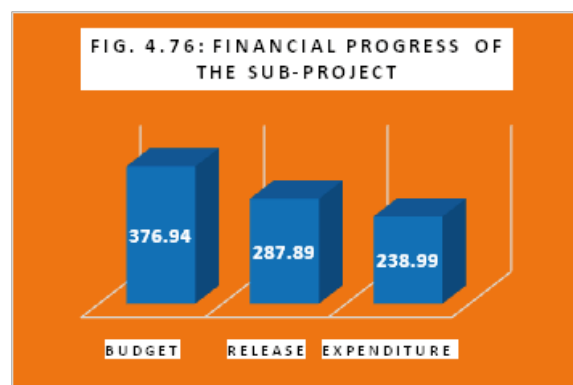
The sub-project ID # 128 has 9 components being implemented by BARC, BARI, BRRI, BJRI, BSRI, BINA, CDB, BSRTI and BAU (Table 4.38) to characterize and document genetic resources including Geographical Indication (GI) crops and released varieties at morphological and molecular level. The sub-project set 28 objectives (3 by BARI, 4 by BRRI, 3 by BJRI, 3 by BSRI, 2 by BINA, 3 by CDB, 2 by BSRTI and 4 AU) and to satisfy the objectives it has executed 44 major activities of which 6 implemented by BARC, 6 by BARI, 5 by BRRI, 4 by BJRI, 7 by BSRI, 4 by BINA, 3 by CDB, 3 by BSRTI and 6 BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 3.38 by the components. The sub-project mostly achieved the set objectives by completing the physical and molecular characterization of large numbers of selected crop germplasm. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 2 months for the sub-project.

Table 4.38: Progress of field activities and time required for sub-project ID # 128 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	4	6	4	2	0	6
BARI	3	6	6		0	0
BRRI	4	5	0	5	0	2
BJRI	3	4	0	4	0	0
BSRI	3	7	3	4	0	3
BINA	2	4	4		0	0
CDB	3	3	2	1	0	3
BSRTI	2	3	0	3	0	2
BAU	4	6	6	0	0	0
Total	28	44	25	19	0	16
Average	3	5	3	2	0	2

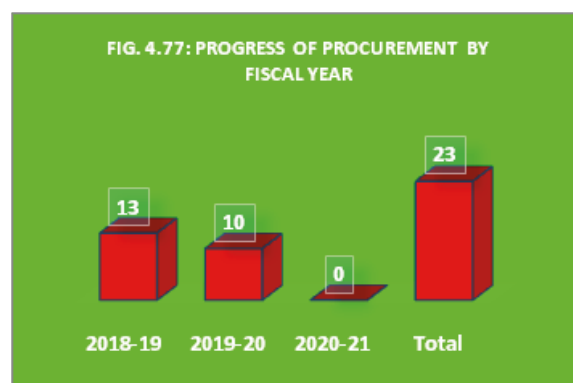
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.76. The total budget of the sub-project is BDT 376.94 lakh of which BDT 287.89 lakh (76%) has been released by the PIU-BARC and BDT 238.99 lakh (63%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 37 by different components. By November 2020, the sub-project completed 23 packages (61%) of the procurement of which it made 13 packages (57%) in 2018-19, 10 packages (43%) in 2019-20 and nil in 2020-21. The fig. 4.77 showed the progress of procurement of the sub-project by fiscal year.



39. Determination of Critical Limit of Nutrients for Soils and Crops (ID#134)

a) Progress of Field Activities

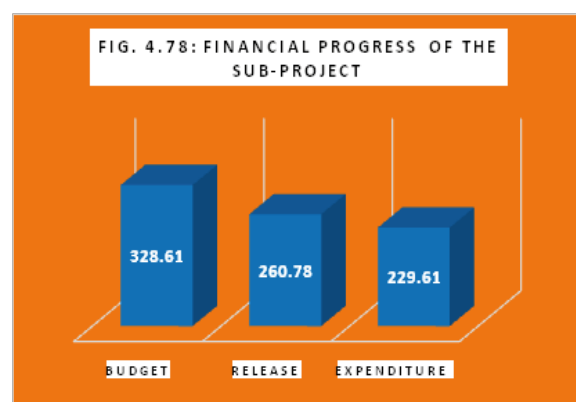
The sub-project ID # 134 has 5 components being implemented by BARC, BARI, BRRI, BINA and BAU (Table 4.39). The sub-project set 16 objectives (3 by BARI; 3 by BRRI, 3 by BINA; and 3 by BAU) and to satisfy the objectives it has executed 48 major activities of which 6 implemented by BARC, 3 by BARI, 12 by BRRI, 12 by BINA, 4 by BARC and 15 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.39 by the components. The main objective of the sub-project is: determination of critical limit of different nutrients for cereal, vegetable & oilseed crops and its validation through field experiments. The sub-project partially achieved the set objectives through setting experiments but lab analysis and field validation is still on-going. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 7 months for the sub-project.

Table 4.39: Progress of field activities and time required for sub-project ID # 134 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	4	6	2	3	1	6
BARI	3	3	2	1	0	6
BRRI	3	12	7	4	1	6
BINA	3	12	8	3	1	12
BAU	3	15	12	3	0	6
Total	16	48	31	14	3	36
Average	3	10	6	3	1	7

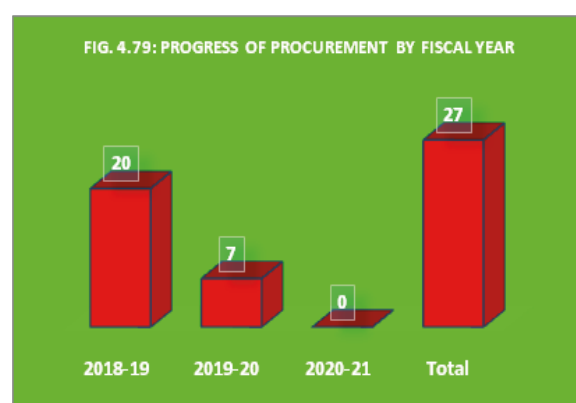
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.78. The total budget of the sub-project is BDT 328.61 lakh of which BDT 260.78 lakh (79%) has been released by the PIU-BARC and BDT 229.61 lakh (70%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 31 by different components. By November 2020, the sub-project completed 27 packages (85%) of the procurement of which it made 20 packages (74%) in 2018-19, 7 packages (26%) in 2019-20 and nil in 2020-21. The fig. 4.79 showed the progress of procurement of the sub-project by fiscal year.



40. Improvement of Soil Health and Crop Productivity in Climate Vulnerable and polluted Areas Through Organic Amendments (ID#135)

a) Progress of Field Activities

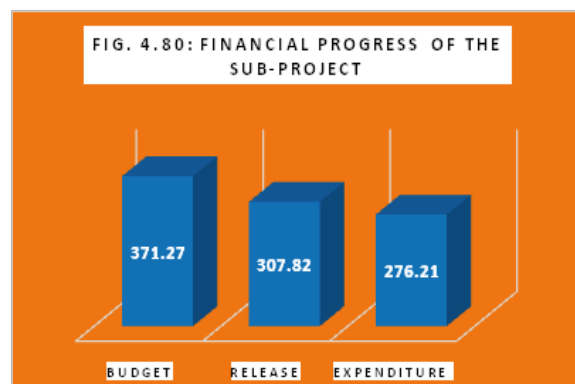
The sub-project ID # 135 has 7 components being implemented by BARC, BARI, BRRI, BINA, BAU, BSMRAU and SAU (Table 4.40) to examine potentiality of different organic materials for amending problem soils and improving crop yields in the study areas. The sub-project set 21 objectives (3 by BARI, 3 by BRRI, 3 by BINA, 3 by BAU, 3 by BSMRAU, 3 by BARC and 3 by SAU) and to satisfy the objectives it has executed 58 major activities of which 15 implemented by BARC, 17 by BARI, 6 by BRRI, 8 by BINA, 5 by BAU, 3 by BSMRAU and 4 by SAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.40 by the components. The sub-project partially achieved the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.40: Progress of field activities and time required for sub-project ID # 135 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	3	15	6	8	1	2
BARI	3	17	9	7	1	6
BRRI	3	6	6	0	0	0
BINA	3	8	5	3	0	8
BAU	3	5	1	4	0	8
BSMRAU	3	3	1	2	0	6
SAU	3	4	3	1	0	8
Total	21	58	31	25	2	38
Average	3	8	4	4	0	5

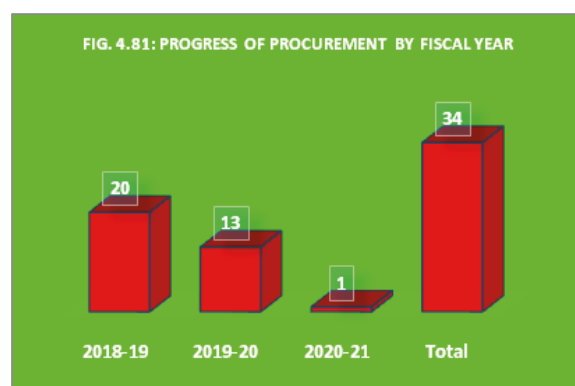
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.80. The total budget of the sub-project is BDT 371.27 lakh of which BDT 307.82 lakh (83%) has been released by the PIU-BARC and BDT 276.21 lakh (74%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 40 by different components. By December 2020, the sub-project completed 34 packages (85%) the procurement of which it made 20 packages (59%) in 2018-19, 13 packages (38%) in 2019-20 and 1 package (3%) in 2020-21. The fig. 4.81 showed the progress of procurement of the sub-project by fiscal year.



41. Determination of Antimicrobial Resistance and Residues in Livestock and Poultry Food Products and Feed in Bangladesh (ID #138)

a) Progress of Field Activities

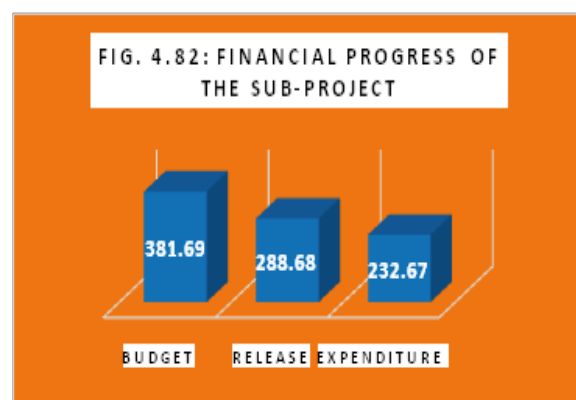
The sub-project ID # 138 has 8 components being implemented by BARC, BAU, BLRI, RU, PSTU, CVASU, SAU, and HSTU (Table 4.41) with a view to assessment of antimicrobial drug residues in livestock and poultry food products & feed and its mitigation program, and to determine the antimicrobial resistance & associated genes. The sub-project set 29 objectives (3 by BARC; 5 by BAU, 3 by BLRI, 4 by RU, 3 by PSTU, 4 by CVASU, 3 by SAU, and 4 by HSTU) and to satisfy the objectives it has executed 68 major activities of which 10 implemented by BARC; 10 by BAU, 9 by BLRI, 13 by RU, 6 by PSTU, 4 by CVASU, 8 by SAU, and 8 by HSTU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.41 by the components. The sub-project mostly achieved the set objectives by collecting the samples and analyzing it. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.41: Progress of field activities and time required for sub-project ID # 138 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	3	10	7	2	1	6
BAU	5	10	4	6	0	6
BLRI	3	9	1	8	0	6
RU	4	13	8	3	2	8
PSTU	3	6	2	3	1	3
CVASU	4	4	2	2	0	1
SAU	3	8	4	4	0	5
HSTU	4	8	1	7	0	8
Total	29	68	29	35	4	43
Average	4	9	4	4	1	5

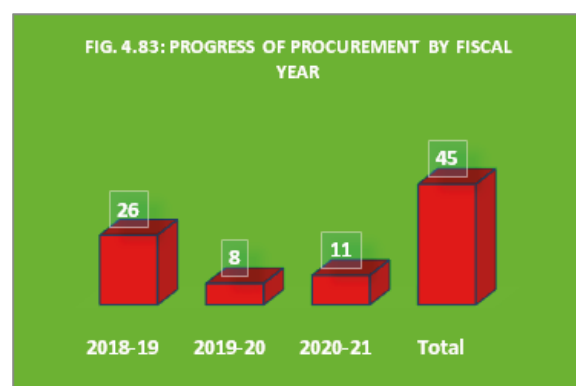
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.82. The total budget of the sub-project is BDT 381.69 lakh of which BDT 288.68 lakh (76%) has been released by the PIU-BARC and BDT 232.67 lakh (61%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 49 by different components. By November 2020, the sub-project completed 45 packages (91%) of the procurement of which it made 26 packages (58%) in 2018-19, 8 packages (18%) in 2019-20 and 11 packages (24%) in 2020-21. The fig. 4.83 showed the progress of procurement of the sub-project by fiscal year.



42. Preparedness for the control of PPR in Bangladesh (ID#139)

a) Progress of Field Activities

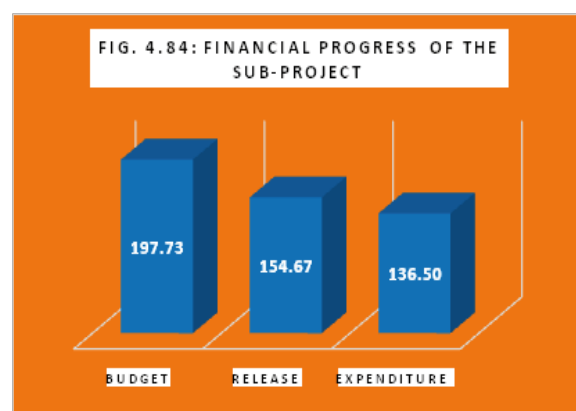
The sub-project ID # 139 has 3 components being implemented by BARC, BLRI and BAU (Table 4.42) to increase availability of safe and high quality livestock protein through controlling PPR in Bangladesh to meet global control strategy. The sub-project set 4 objectives (1 by BARC; 1 by BLRI; and 2 by BAU) and to satisfy the objectives it has executed 17 major activities of which 10 implemented by BARC, 3 by BLRI, and 4 by BAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.42 by the components. The sub-project partially achieved the set objectives by collecting required numbers of samples and analyzing the data. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 9 months for the sub-project.

Table 4.42: Progress of field activities and time required for sub-project ID # 139 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	1	10	5	4	1	6
BLRI	1	3	0	3	0	8
BAU	2	4	0	4	0	12
Total	4	17	5	11	1	26
Average	1	6	2	4	0	9

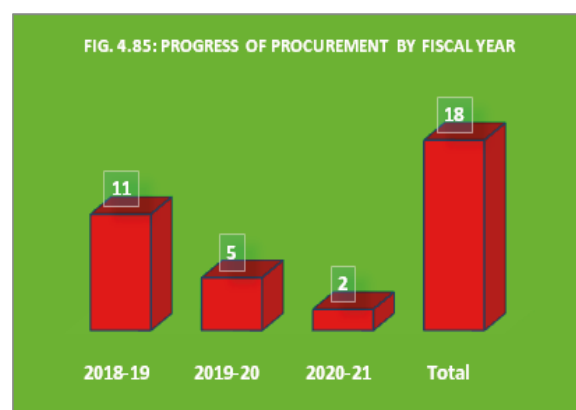
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.84. The total budget of the sub-project is BDT 197.73 lakh of which BDT 154.67 lakh (78%) has been released by the PIU-BARC and BDT 136.50 lakh (69%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 20 by different components. By November 2020, the sub-project completed 18 packages (90%) of the procurement of which it made 11 packages (61%) in 2018-19, 5 packages (28%) in 2019-20 and 2 packages (11%) in 2020-21. The fig. 4.85 showed the progress of procurement of the sub-project by fiscal year.



43. Transformation of Agriculture for Food Security and Poverty Reduction (ID #151)

a) Progress of Field Activities

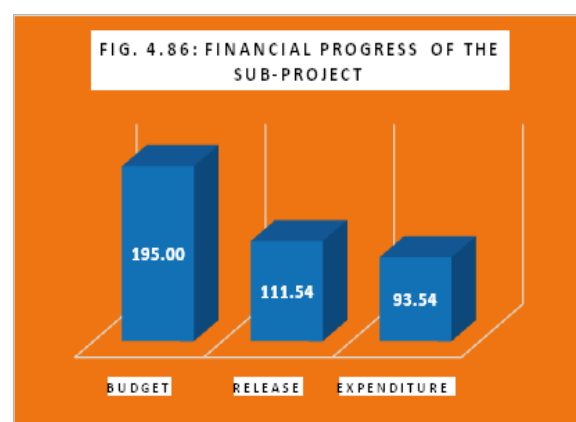
The sub-project ID # 151 has 3 components being implemented by BARC, BAU, and Prattasha Foundation (Table 4.43) to identify the drivers of changes in agricultural transformation and livelihood pattern and to estimate its effect on food security and poverty reduction. The sub-project set 9 objectives (2 by BARC; 4 by BAU; and 3 by Prattasha Foundation) and to satisfy the objectives it has executed 37 major activities of which 15 implemented by BARC, 10 by BAU, and 12 by Prattasha Foundation. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.34 by components. The sub-project is yet to achieve the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.43: Progress of field activities and time required for sub-project ID # 151 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	2	15	5	7	3	6
BAU	4	10	4	4	2	6
Prattasha Foundation	3	12	8	4	0	2
Total	9	37	17	15	5	14
Average	3	12	6	5	2	5

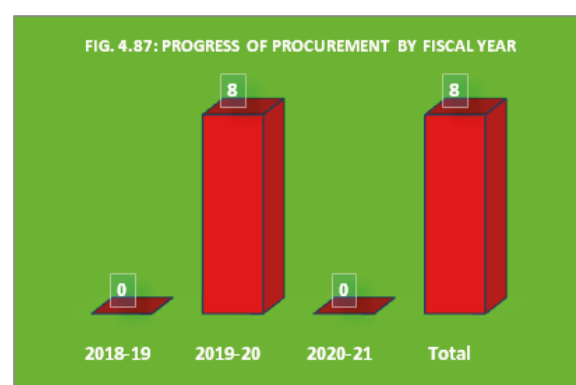
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.86. The total budget of the sub-project is BDT 195.00 lakh of which BDT 111.54 lakh (57%) has been released by the PIU-BARC and BDT 93.54 lakh (48%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 8 by different components. By November 2020, the sub-project completed 8 packages (100%) of the procurement of which it made 0 packages (00%) in 2018-19, 8 packages (100%) in 2019-20 and nil in 2020-21. The fig. 4.87 showed the progress of procurement of the sub-project by fiscal year.



44. Development of Protective Culture Technology for Safe and Quality Vegetables and Fruits Production (ID#152)

a) Progress of Field Activities

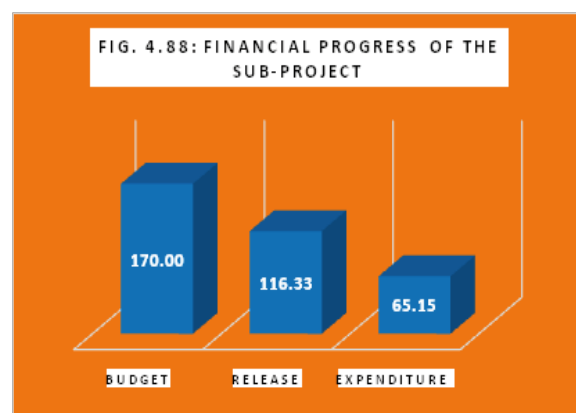
The sub-project ID # 152 has 2 components being implemented by BARI and SAU (Table 4.44) to produce safe and quality vegetables and fruits for local and export market following protected cultivation techniques. The sub-project set 4 objectives (2 by BARI; 2 by SAU) and to satisfy the objectives it has executed 17 major activities of which 10 implemented by BARI and 7 by SAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.44 by the components. The sub-project is yet to achieve the set objectives as it passed only 15 months duration. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 months for the sub-project.

Table 4.44: Progress of field activities and time required for sub-project ID # 152 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARI	2	10	2	6	2	3
SAU	2	7	2	5	0	4
Total	4	17	4	11	2	7
Average	2	9	2	6	1	4

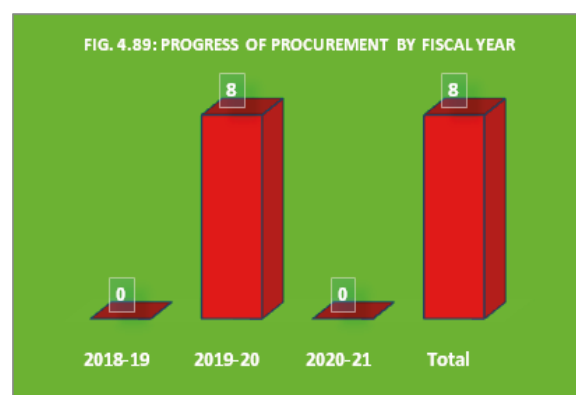
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.88. The total budget of the sub-project is BDT 170.00 lakh of which BDT 116.33 lakh (68%) has been released by the PIU-BARC and BDT 65.15 lakh (38%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID -19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 13 by different components. By November 2020, the sub-project completed (100%) of the procurement of which it made 8 packages (100%) in 2019-20 and nil in 2020-21. The fig. 4.89 showed the progress of procurement of the sub-project by fiscal year.



45. Development of Production Package for Horticultural Crops in Rooftop and Open Space in Urban Areas of Bangladesh (ID#153)

a) Progress of Field Activities

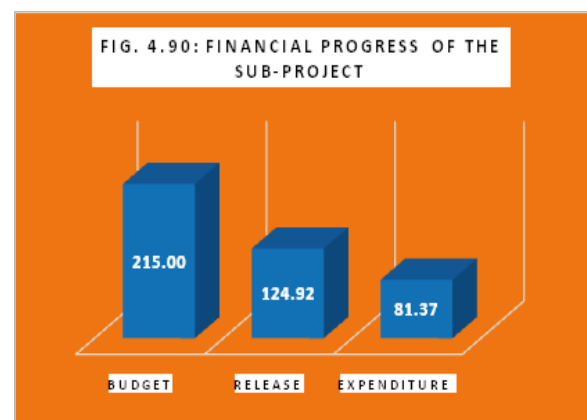
The sub-project ID # 153 has 4 components being implemented by BARC, BARI and (Table 4.45) to develop production package for different flower & ornamentals in rooftop gardening and to popularize different horticultural crop varieties under hydroponic culture. The sub-project set 11 objectives (3 by HRC, BARI; 3 by floriculture, BARI; 2 by pomology, BARI and 3 by SAU) and to satisfy the objectives it has executed 20 major activities of which 3 implemented by HRC, BARI; 3 by floriculture, BARI; 6 by pomology, BARI and 8 by SAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.45 by the components. The sub-project partially achieved the set objectives by establishing flowers and ornamentals in the roof top of Dhaka city. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 4 month for the sub-project.

Table 4.45: Progress of field activities and time required for sub-project ID # 153 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
HRC, BARI	3	3	0	3	0	6
Floriculture, BARI	3	3	0	3	0	4
Pomology, BARI	2	6	0	6	0	4
SAU	3	8	0	8	0	1
Total	11	20	0	20	0	15
Average	3	5	0	5	0	4

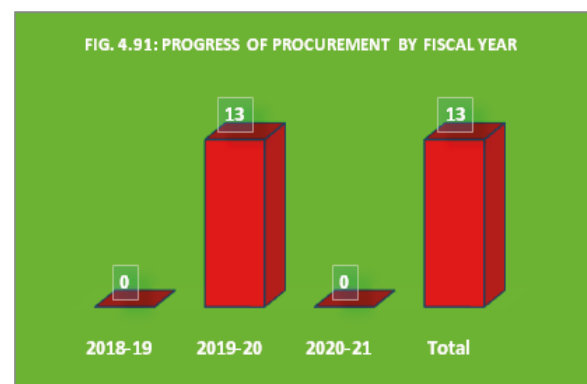
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.90. The total budget of the sub-project is BDT 215.00 lakh of which BDT 124.92 lakh (58%) has been released by the PIU-BARC and BDT 81.87 lakh (38%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 26 by different components. By November 2020, the sub-project completed 13 packages (60%) the procurement of which it made 0 packages (00%) in 2018-19, 13 packages (100%) in 2019-20 and nil in 2020-21. The fig. 4.91 showed the progress of procurement of the sub-project by fiscal year.



46. Sustainable Development of Indigenous fisheries in Baors of South-western Bangladesh through Multiple-Functions for Ensuring the Food (ID#154)

a) Progress of Field Activities

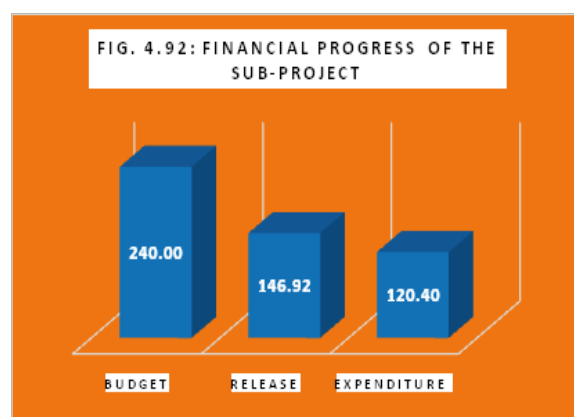
The sub-project ID # 154 has 3 components being implemented by BARC, RU and JUST (Table 4.46) to enhance sustainable management of indigenous fishes in the Baors and to ensure the food security and livelihood of a number of fishers in Baor regions. The sub-project set 11 objectives (5 by BARC; 3 by RU and 3 by JUST) and to satisfy the objectives it has executed 26 major activities of which 8 implemented by RU, 14 by JUST. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.46 by the components. The sub-project partially achieved the set objectives by establishing fish sanctuaries in baors and beels in the selected regions. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 6 months for the sub-project.

Table 4.46: Progress of field activities and time required for sub-project ID # 154 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	5	4	0	4	0	5
RU	3	8	0	8	0	6
JUST	3	14	3	11	0	6
Total	11	26	3	23	0	18
Average	4	9	1	8	0	6

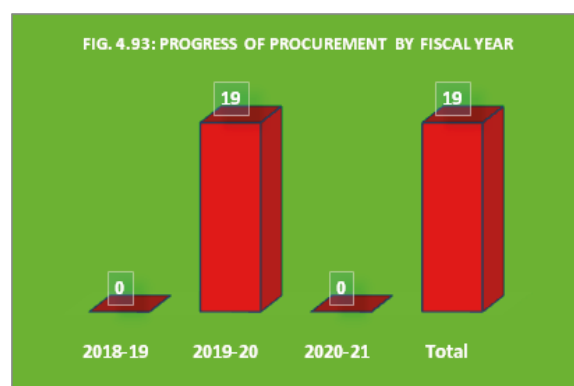
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.92. The total budget of the sub-project is BDT 240.00 lakh of which BDT 146.92 lakh (61%) has been released by the PIU-BARC and BDT 120.40 lakh (50%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 29 by different components. By November 2020, the sub-project completed 19 packages (66%) of the procurement of which it made 19 packages (100%) in 2018-19, 0 packages (00%) in 2019-20 and nil in 2020-21. The fig. 4.93 showed the progress of procurement of the sub-project by fiscal year.



47. Exploration of Exogenous Enzymes, Bivalent Efficacy and Omega-3 Fatty Acid of Microbes and Small in-vertebrates as Potential Feed Supplement for Enhancing Fish and Shrimp Productivity (ID#155)

a) Progress of Field Activities

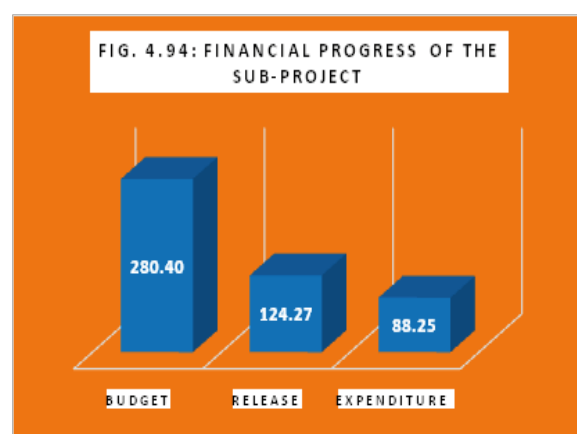
The sub-project ID # 155 has 4 components being implemented by BARC, NSTU, BFRI and BSMRAU (Table 4.47) with a view to development of technology for reducing fish/shrimp mortality by improvement of feed digestibility and disease resistance. The sub-project set 14 objectives (5 by BARC; 4 by NSTU; 3 by BFRI; and 2 by BSMRAU) and to satisfy the objectives it has executed 24 major activities of which 9 implemented by NSTU, 6 by BARC, 4 by BFRI and 5 by BSMRAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.47 by the components. The sub-project is yet to achieve the set development objectives as it passed only 15 months. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 13 months for the sub-project.

Table 4.47: Progress of field activities and time required for sub-project ID # 155 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest ctivities	Time required for completion (month)
BARC	5	6	0	6	0	12
NSTU	4	9	4	4	1	18
BFRI	3	4	0	4	0	10
BSMRAU	2	5	0	5	0	13
Total	14	24	4	19	1	53
Average	4	6	1	5	0	13

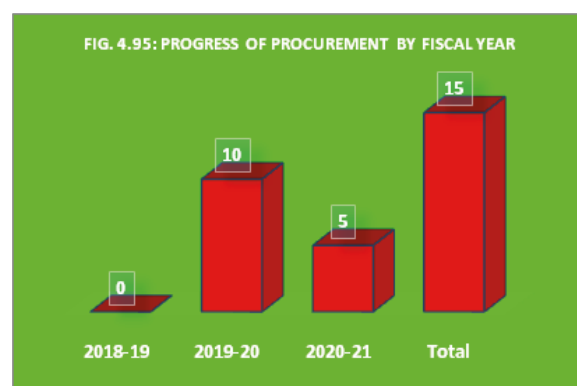
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.94. The total budget of the sub-project is BDT 280.40 lakh of which BDT 124.27 lakh (44%) has been released by the PIU-BARC and BDT 88.25 lakh (31%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 30 by different components. By November 2020, the sub-project completed 15 packages (67%) of the procurement of which it made 10 packages (21%) in 2019-20 and 5 packages (33%) in 2020-21. The fig. 4.95 showed the progress of procurement of the sub-project by fiscal year.



48. Stock Assessment of Commercially Important Fishes in the Bay of Bengal through Multi-model inferences and molecular markers: Management Policy Implications Considering the Emerging Climate Change (ID#156)

a) Progress of Field Activities

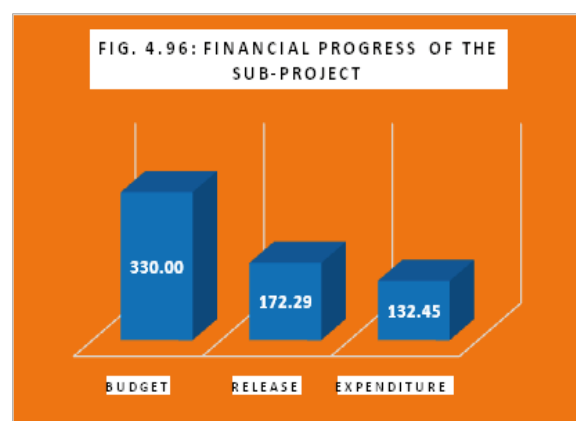
The sub-project ID # 156 has 3 components being implemented by BARC, RU, and SAU (Table 4.48) to determine and categorize the stock of commercial fish species of the Bay of Bengal. The sub-project set 13 objectives (5 by BARC; 3 by RU; and 5 by SAU) and to satisfy the objectives it has executed 22 major activities of which 7 implemented by RU, 5 by BARC and 10 by SAU. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.48 by the components. The sub-project is yet to achieve the set objectives as it passed only 15 months. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table 4.48: Progress of field activities and time required for sub-project ID # 156 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	5	5	0	5	0	12
RU	3	7	0	7	0	6
SAU	5	10	0	10	0	18
Total	13	22	0	22	0	36
Average	4	7	0	7	0	12

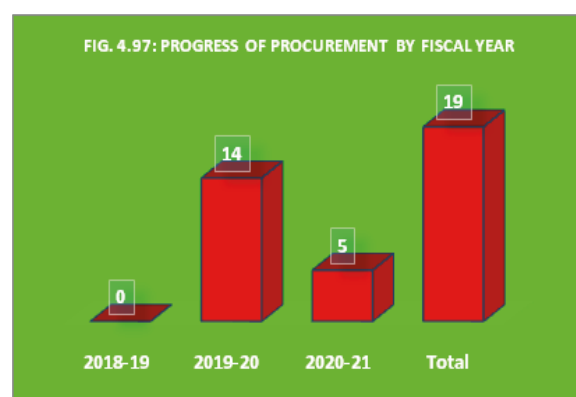
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.96. The total budget of the sub-project is BDT 330.00 lakh of which BDT 172.29 lakh (52%) has been released by the PIU-BARC and BDT 132.45 lakh (40%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 29 by different components. By November 2020, the sub-project completed 19 packages (66%) of the procurement of which it made 14 packages (74%) in 2019-20 and 5 packages (26%) in 2020-21. The fig. 4.97 showed the progress of procurement of the sub-project by fiscal year.



50. Analysis of Agricultural Policy on Food System and Rural Development in Bangladesh: Case of Hoar area (Wetland) Management Practice (ID#158)

a) Progress of Field Activities

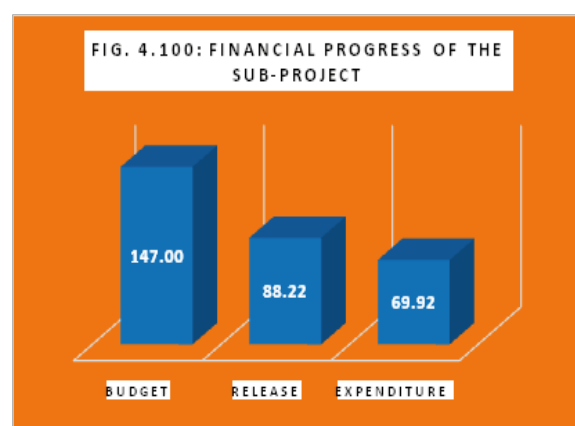
The sub-project ID # 158 has 4 components being implemented by BARC, SAU, SUST and RU (Table 4.50) to identify policy options for haor area development to filling the gap and generate knowledge base for interventions in rural development, resource conservation and poverty alleviation. The sub-project set 9 objectives (3 by BARC; 3 by BAU; and 3 by SAU) and to satisfy the objectives it has executed 40 major activities of which 15 implemented by BARC, 13 by BAU and 12 by SAU. The number of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.50 by the components. The sub-project is yet to achieve the set objectives. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 5 months for the sub-project.

Table: 4.50: Progress of field activities and time required for sub-project ID # 158 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BARC	3	15	4	10	1	6
BAU	3	13	5	7	1	5
SAU	3	12	4	7	1	5
Total	9	40	13	24	3	16
Average	3	13	4	8	1	5

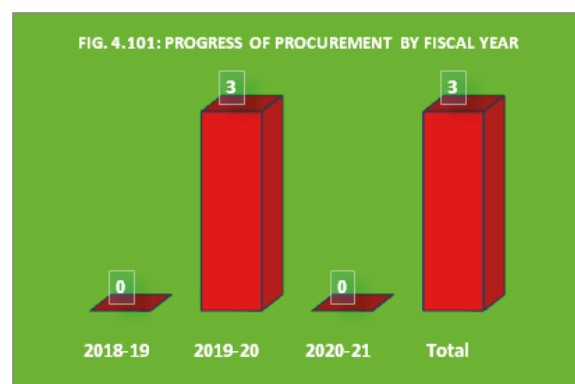
b) Financial Progress

The updated financial progress of the sub-project ID # 158 is shown in the fig. 4.100. The total budget of the sub-project is BDT 147.00 lakh of which BDT 88.22 lakh (60%) has been released by the PIU-BARC and BDT 69.92 lakh (48%) spent in the field by the Principal Investigators (PIs) till November 2020. As explained by the PIs the delayed capital expenditure due to COVID-19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project ID # 158 was 3 by different components. By November 2020, the sub-project completed (100%) the procurement of which it made 3 packages (100%) in 2019-20. The fig. 4.101 showed the progress of procurement of the sub-project by fiscal year.



51. Formulation of Bio-Pesticides to Control Bakanae Disease of Rice in Field Condition (ID#159)

a) Progress of Field Activities

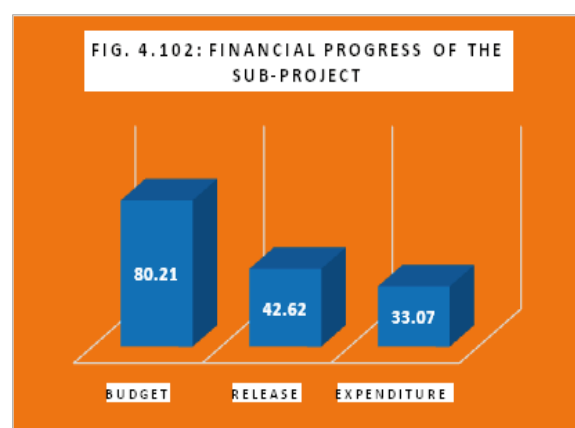
The sub-project ID # 159 has 2 components being implemented by BRRI, and Islamic University (IU; Table 4.51) to Development of environmental safebio-pesticide to control bakanae disease and to increase yield of rice. The sub-project set 6 objectives (4 by BRRI; and 2 by Islamic University) and to satisfy the objectives it has executed 7 major activities of which 4 implemented by BRRI, and 3 by Islamic University. The numbers of objective, number of major field/technical activities showing completed, on-going and to be completed ones are plotted in columns # 2-6 of the Table 4.51 by the components. The sub-project partially achieved the set objectives by setting trials for the purposes. The responses of PIs against time (months) extension to be required for successful completion of the sub-projects is given in the column # 7. The average time extension desired by PIs is 11 months for the sub-project.

Table 4.51: Progress of field activities and time required for sub-project ID # 159 by components

Component	No. of objectives	No. of major activities	Completed activities	On-going activities	Rest activities	Time required for completion (month)
BRRI	4	4	0	3	1	18
Islamic University	2	3	0	2	1	4
Total	6	7	0	5	2	22
Average	3	4	0	3	1	11

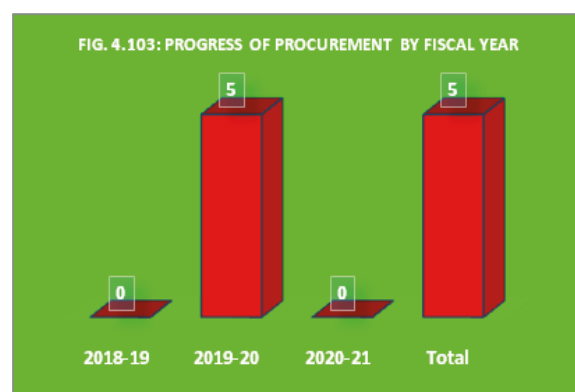
b) Financial Progress

The updated financial progress of the sub-project is shown in the fig. 4.102. The total budget of the sub-project is BDT 80.21 lakh of which BDT 42.62 lakh (60%) has been released by the PIU-BARC and BDT 33.07 lakh (48%) spent in the field by the Principal Investigators (PIs) till December 2020. As explained by the PIs the delayed capital expenditure due to COVID- 19 slowed down the expenditure than expected.



c) Procurement Progress

The total targeted procurement packages for the sub-project were 8 by different components. By December 2020, the sub-project completed 5 packages (63%) of the procurement of which it made 5 packages (100%) in 2019-20. The fig. 4.103 showed the progress of procurement of the sub-project by fiscal year.



Sub-Project wise Technical Progress

Annex I

Project ID	No. of objectives	No. of major activities	Completed activities	Ongoing activities	Rest Activities	Time required for completion (month)	% of completed activities	% of ongoing activities	% of incomplete activities
Slot 1									
1	3	12	7	4	1	6	56	34	10
2	3	7	2	5	0	6	33	67	0
5	2	8	4	4	0	7	43	48	1
7	4	10	2	8	0	5	16	84	0
10	3	10	8	2	1	4	79	16	6
11	4	4	2	2	0	3	39	28	0
13	4	7	2	5	1	7	23	68	8
16	3	8	4	4	0	4	37	63	0
20	3	8	0	8	0	4	0	75	0
21	3	11	6	5	0	5	58	42	0
26	1	4	2	3	0	3	35	65	0
29	3	5	1	4	0	4	13	59	3
30	4	5	5	0	0	1	64	3	0
31	4	7	4	3	0	3	36	39	0
35	5	10	5	5	0	5	44	31	0
36	4	5	3	2	0	2	39	28	0
37	5	9	8	1	0	2	59	7	0
49	3	11	1	10	0	5	33	67	0
51	3	11	4	7	0	5	35	65	0
54	3	8	2	6	0	4	30	37	0
61	3	13	5	9	0	3	38	62	0
64	5	9	3	7	0	2	19	81	0
70	3	11	5	5	1	8	48	48	5
72	3	11	2	9	0	18	20	80	0
74	3	7	2	5	0	7	31	69	0
77	2	8	5	2	0	2	57	18	0
87	2	7	0	7	0	8	0	67	0
89	2	8	2	5	1	12	27	60	13
91	4	10	7	3	0	2	70	30	0
96	3	10	2	7	0	3	20	80	0
98	3	16	5	11	0	5	31	69	0
99	4	11	7	4	0	4	44	31	0
103	5	11	4	6	0	4	50	50	0
108	2	9	2	6	1	5	29	64	7
110	2	7	2	4	0	7	34	63	4
128	3	5	3	2	0	2	53	47	0
134	2	10	6	3	1	7	61	32	7
135	3	8	4	4	0	5	55	43	2
138	4	9	4	4	1	5	41	54	5
139	1	6	2	4	0	9	17	80	3
Total	125	340	142	192	7	198	1515	2053	73
Average	3	9	4	5	0.17	5	39	53	2
Slot 2									
43	3	5	2	3	0	5	36	44	0
97	3	10	2	8	0	6	14	86	0
151	3	12	6	5	2	5	47	40	13
152	2	9	2	6	1	4	24	66	10
153	3	5	0	5	0	1	0	100	0
154	4	7	1	6	0	4	7	60	0
155	4	5	1	3	0	10	11	61	3
156	4	6	0	6	0	8	0	67	0
157	4	4	1	4	0	8	7	59	0
158	3	13	4	8	1	5	33	60	8
159	3	4	0	3	1	11	0	71	29
Total	35	80	19	56	5	68	180	712	63
Average	3	7	2	5	0.41	6	15	59	5

Component wise Technical Progress

Project ID	Title of the sub-project	Component	No. of objectives	No. of major activities	Completed activities	On going activities	Rest Activities	Time required for completion (month)	% of completed activities	% of ongoing activities
1	Up-scaling and Application of Solar Photovoltaic Pump for Smallholder Irrigation and Household Appliances in the Central Coastal Region of Bangladesh	BARC	2	7	3	3	1	6	43	43
		BARI	3	12	8	2	2	5	67	17
		BRRRI	3	17	10	7	0	6	59	41
		Total	8	36	21	12	3	17	169	101
		Average	3	12	7	4	1	6	56	34
2	Groundwater resources management for sustainable crop production in northwest hydrological region of Bangladesh	BARC	1	8	4	4	0	6	50	50
		BARI	4	6	0	6	0	6	0	100
		BRRRI	5	8	0	8	0	9	0	100
		BINA	3	6	5	1	0	2	83	17
		Total	13	28	9	19	0	23	133	267
Average	3	7	2	5	0	6	33	67		
5	Transfer of Agricultural Technologies to farmers' level for increasing farm productivity	BARC	2	8	4	4	0	12	50	50
		BINA	3	11	4	7	0	12	36	64
		BARI	3	3	2	1	0	12	67	33
		BLRI	2	13	6	6	1	6	46	46
		BFRI	2	8	7	1	0	6	88	13
		BWMRI	2	5	2	3	0	6	40	60
		BSRI	3	9	3	6	0	9	33	67
		CDB	2	10	5	5	0	6	50	50
		BJRI	3	7	2	5	0	6	29	71
		BRRRI	2	7	5	2	0	6	71	29
		SRDI	2	8	2	6	0		25	75
		Total	26	89	42	46	1	81	535	558
Average	2	8	4	4	0	7	49	51		
7	Value addition and standardization of nutritional level in selected food items from Animal and plant origin	BRC	6	6	0	6	0	6	0	100
		PSTU	3	14	2	12	0	2	14	86
		HSTU	2	9	3	6	0	6	33	67
		Total	11	29	5	24	0	14	47	253
Average	4	10	2	8	0	5	16	84		
10	DNA marker-assisted breeding for producing highly stress tolerant elite rice varieties for coastal Bangladesh by introgression of multiple salt tolerance loci (QTLs) into commercial cultivars	BRRRI	3	9	7	1	1	2	78	11
		DU	3	10	8	2	0	5	80	20
		Total	6	19	15	3	1	7	158	31
Average	3	10	8	2	1	4	79	16		
11	Food-based initiative for improving household food security, income generation and minimize malnutrition	BARC	6	5	3	2	0	8	60	40
		BLRI	4	6	2	4	0	3	33	67
		NSTU	3	7	4	3	0	1	57	43
		Total	13	18	9	9	0	12	150	150
Average	4	6	3	3	0	4	50	50		
13	Development of lean season fruit varieties and management packages	HRC, BARI	6	8	1	7	0	6	13	88
		Plant Pathology Division, BARI	4	5	1	4	0	9	20	80
		Entomology Division, BARI	3	8	3	3	2	5	38	38
		Total	13	21	5	14	2	20	71	206
Average	4	7	2	5	1	7	24	69		
16	Integration of Postharvest Technologies and Best Practices in the Value Chains of Fruits and Vegetables	Postharvest Technology Division, BARI,	3	3	0	3	0	3	0	100
		Postharvest Technology Section, HRC, BARI	3	11	7	4	0	2	64	36
		FMPR, BARI	3	10	7	3	0	6	70	30
		DU	3	8	1	7	0	6	13	88
		Total	12	32	15	17	0	17	147	254
Average	3	8	4	4	0	4	37	64		
20	Development of Production Package for Export and Processing Potatoes to Sustain Productivity and Food Security in Bangladesh	BARI	4	14	0	14	0	6	0	100
		SAU	3	14		14	0	6	0	100
		Giant Agro Processing Ltd.,	3	3	0	3	0	3	0	100
		Quasem Food Products Ltd	3	3	0	3	0	5	0	100
		Total	13	34	0	34	0	20	0	400
Average	3	9	0	9	0	5	0	100		

21	Cost and Return Analysis of Selected Crops in Bangladesh	BARC	3	13	7	6	0	6	54	46
		BARI	3	10	6	4	0	5	60	40
		BINA	3	10	6	4	0	5	60	40
		Total	9	33	19	14	0	16	174	126
		Average	3	11	6	5	0	5	58	42
26	Development of integrated crop management technologies for higher production of coconut in Bangladesh	HRC, BARI	1	4	1	3	0	6	25	75
		Entomology Division, BARI	1	4	1	3	0	6	25	75
		Pathology Division, BARI	1	5	2	3	0	0	40	60
		SSURDA	1	4	2	2	0	0	50	50
		Total	4	17	6	11	0	12	140	260
Average	1	4	2	3	0	3	35	65		
29	Up-scaling of mud crab (<i>Scylla olivacea</i>) aquaculture in Bangladesh: Adoption of innovative techniques from seed production to fattening and health management	BFRI, Mymensingh	1	4	0	4	0	6	0	100
		BARC	5	3	0	3	0	6	0	100
		BFRI, Paikgacha	4	8	1	6	1	6	13	75
		KU	3	8	3	5	0	3	38	63
		Total	13	23	4	18	1	21	51	338
Average	3	6	1	5	0	5	13	85		
30	Investigation and characterization of viral and bacterial diseases in highly consumed fin fishes and Shrimp in Bangladesh and development of their vaccines and validation	BARC	6	4	0	4	0	3	0	100
		BFRI	3	3	3	0	0		100	0
		BAU	4	12	11	1	0	2	92	8
		Total	13	19	14	5	0	5	192	108
		Average	4	6	5	2	0	2	64	36
31	Development of in-situ Breeding Technology of Prawn (<i>Macrobrachium rosenbergii</i>) and Adoption of Sustainable Eco-Friendly Culture of Prawn and Shrimp (<i>Penaeus monodon</i>)	BFRI, Mymensingh	1	6	3	3	0	3	50	50
		BARC	5	4	0	4	0	3	0	100
		BFRI, Bagerhat	5	5	1	4	0	6	20	80
		KU	3	15	11	4	0	2	73	27
		Total	14	30	15	15	0	14	143	257
Average	4	8	4	4	0	4	36	64		
35	Sustainable Fisheries Development for Haor and Beel Community through Improved Management Approach	BARC	6	4	0	4	0	6	0	100
		SAU	5	17	7	10	0	12	41	59
		SUST	4	15	5	10	0	6	33	67
		RU	3	6	6	0	0	0	100	0
		Total	18	42	18	24	0	24	174	226
Average	5	11	5	6	0	6	44	57		
36	Post-harvest Losses, Supply and Value Chain Analysis of Fisheries Sub-sector in Bangladesh	BARC	5	4	1	3	0	6	25	75
		BAU	4	9	4	5	0	2	44	56
		PSTU	4	7	5	2	0	3	71	29
		Total	13	20	10	10	0	11	140	160
		Average	4	7	3	3	0	4	47	53
37	Improvement of existing fattening technology of carp and high valued small indigenous species (SIS) through good aquaculture practices (GAP) in different agro-ecosystems	BARC	6	5	2	3	0	6	40	60
		RU	5	10	9	1	0	3	90	10
		PSTU	4	17	15	2	0	4	88	12
		Total	15	32	26	6	0	13	218	82
		Average	5	11	9	2	0	4	73	27
43	Microbial characterization of Bangladesh soil and development of climate smart biofertilizers for crop production and soil fertility	BARC	4	4	1	3	0	8	25	75
		BARI	4	9	4	5	0	8	44	56
		BRRRI	3	7	1	6	0	6	14	86
		BINA	4	5	2	3	0	12	40	60
		BSRI	4	6	5	1	0	1	83	17
		Total	19	31	13	18	0	35	206	294
Average	3.8	6	3	4	0	7	41	59		
49	Adaptation and Scaling up Agroforestry for Livelihood Improvement of farmers in Agricultural Ecosystem of Bangladesh	OFRD, BARI	3	19	0	19	0	6	0	100
		HRC, BARI	3	3	2	1	0	4	67	33
		Total	6	22	2	20	0	10	67	133
		Average	3	11	1	10	0	5	34	67
51	Validation of Crop Intensification Technologies for Improving System Productivity, Soil Health and Farm Income in South Central Coastal Region	Director (Research), BARI	1	9	4	5	0	5	44	56
		Soil Science Division, BARI	4	10	1	9	0	3	10	90
		Oilseed Research Centre, BARI	3	10	5	5	0	5	50	50
		Agrarian Research Foundation	3	14	5	9	0	5	36	64
		Total	11	43	15	28	0	18	140	260
Average	3	11	4	7	0	5	35	65		

54	Introduction of Profitable and Agro-Ecologically Suitable Crop	OFRD, BARI, Gazipur	3	3	0	3	0	6	0	100
		OFRD, Rajshahi	3	21	5	16	0	6	24	76
		BAU	3	3	2	1	0	6	67	33
		Total	9	27	7	20	0	18	91	209
		Average	3	9	2	7	0	6	30	70
61	Integrated Farming Research and Development for Livelihood Improvement in the Plain land Eco-system	BARC	2	12	4	8	0	6	33	67
		BARI	4	16	5	11	0	2	31	69
		BRRRI	2	15	3	12	0	3	20	80
		BFRI	4	9	6	3	0	1	67	33
		Total	12	52	18	52	0	52	151	52
Average	3	13	4.5	13	0	13	38	13		
64	Design and development of fertilizer deep placement mechanism for existing rice transplanter	FMPHT Division, BRRRI	5	13	5	8	0	2	38	62
		Soil Science Division, BRRRI	5	5	0	5	0	1	0	100
		Total	10	18	5	13	0	3	38	162
		Average	5	9	3	7	0	2	19	81
70	Economic Viability and Production Efficiency of Rice at Farm Level: A Macro Level Study in Bangladesh	BRRRI	3	11	5	5	1	8	45	45
		BAU	3	10	5	5	0	7	50	50
		Total	6	21	10	10	1	15	95	95
		Average	3	11	5	5	1	8	48	48
72	Germplasm conservation and farm productivity enhancement through the interaction of shade trees and tea based agroforestry system to mitigate the climate change	BARC	2	9	4	5	0	6	44	56
		Sylhet Agricultural University	3	10	0	10	0	24	0	100
		BTRI	4	14	2	12	0	24	14	86
		Total	9	33	6	27	0	54	58	242
		Average	3	11	2	9	0	18	19	81
74	Identification, Multiplication and Ex-situ Conservation of Endangered Forest Genetic Resources including Medicinal plants of Bangladesh	BARC	1	9	4	5	0	6	44	56
		BAU	3	3	2	1	0	8	67	33
		BFRI	2	8	1	7	0	6	13	88
		CU	4	7	0	7	0	6	0	100
		Total	10	27	7	20	0	26	124	277
		Average	3	7	2	5	0	7	31	69
77	Upliftment of Farmers Livelihood and Enrichment of Environment through Improved Agroforestry Practices in Char Land Ecosystem of Bangladesh	BARC	1	7	5	2	0	6	72	29
		Department of Agroforestry, BAU	2	16	9	7	0	6	56	44
		BARI	2	5	3	2	0	0	60	40
		Department of Agricultural Economics, BAU	4	7	5	2	0		71	29
		Total	9	35	22	13	0	12	259	142
		Average	2	9	6	3	0	3	65	36
87	Eco-friendly Rodent Management Through Owl Conservation	BRRRI	3	12	0	12	0	12	0	100
		BARI	3	9	0	9	0	12	0	100
		Total	6	21	0	21	0	24	0	200
		Average	3	10.5	0	10.5	0	12	0	100
89	Establishment of profitable cropping pattern through crop intensification in underutilized unfavorable ecosystem	Plant Breeding Division, BINA		7	2	4	1	12	29	57
		Adaptive Research and Extension Division, BINA	3	10	1	8	1	12	10	80
		Agricultural Economics Division, BINA	2	7	3	3	1	12	43	43
		Total	5	24	6	15	3	36	82	180
		Average	2	8	2	5	1	12	27	60
91	Identification of novel resistant gene(s), gene pyramiding and sustainable management of bacterial blight (BB) disease of rice for ensuring food security	BRRRI	3	10	8	2	0	2	80	20
		BAU	4	10	6	4	0	2	60	40
		Total	7	20	14	6	0	4	140	60
		Average	4	10	7	3	0	2	70	30
96	Improvement of Farm Productivity through Intervention with Improved Agricultural Technologies in Char land Eco-System	BARC	2	12	3	9	0	6	25	75
		BARI	3	14	5	9	0	2	36	64
		BLRI	3	3	0	3	0	2	0	100
		BINA	4	10	4	6	0	2	40	60
		BSRI	3	9	0	9	0	2	0	100
		Total	15	48	12	36	0	14	101	399
		Average	3	10	2	7	0	3	20	80

97	Livelihood Improvement of Farmers through Integrated Farming System Research and Development of Drought and Rainfed Ecosystem	BARC	2	11	4	7	0	6	36	64
		BARI	4	15	1	14	0	6	7	93
		BLRI	3	4	0	4	0	6	0	100
		Total	9	30	5	25	0	18	43	257
		Average	3	10	2	8	0	6	14	86
98	Climate Resilient Farming Systems Research and Development for the Coastal Ecosystem	BARC	2	12	4	8	0	6	33	67
		BARI	3	16	5	11	0	2	31	69
		BRRRI	3	20	12	8	0	5	60	40
		BINA	4	16	0	16	0	6	0	100
		Total	12	64	21	43	0	19	124	276
Average	3	16	5	11	0	5	31	69		
99	Enrichment and standardization of nutritional level in selected food items to mitigate human malnutrition	BARC	5	6	2	4	0	6	33	67
		BARI	4	7	4	3	0	6	57	43
		BRRRI	3	7	3	4	0	2	43	57
		BAU	3	28	21	7	0	6	75	25
		Total	15	48	30	18	0	20	208	192
Average	4	12	8	5	0	5	52	48		
103	Contamination and adulteration of food and food products, process, chain and mollification	BARC	9	15	0	15	0	6	0	100
		BARI	3	9	8	1	0	6	89	11
		BFRI	4	8	5	3	0	1	63	38
		Total	16	32	13	19	0	13	152	149
		Average	5	11	4	6	0	4	51	50
108	Development of knowledge hub on Animal Feed Resources for efficient feeding management of ruminants to enhance productivity	BARC		10	4	5	1	6	40	50
		BLRI	3	6	1	4	1	6	17	67
		BAU	3	14	0	14	0	6	0	100
		Sylhet Agricultural University	2	5	3	2	0	3	60	40
		Total	8	35	8	25	2	21	117	257
Average	2	9	2	6	1	5	29	64		
110	Application of Gamma-ray Irradiation to develop stress tolerant capability in fodder crops and their production performance under on-station and on-farm conditions	BARC	1	9	3	5	1	6	33	56
		BLRI	2	7	3	4	0	12	43	57
		BINA	2	4	1	3	0	2	25	75
		Total	5	20	7	12	1	20	101	188
		Average	2	7	2	4	0	7	34	63
128	Collection and Characterization of Important Plant Genetic Resources	BARC	4	6	4	2	0	6	67	33
		BARI	3	6	6		0	0	100	0
		BRRRI	4	5	0	5	0	2	0	100
		BJRI	3	4	0	4	0	0	0	100
		BSRI	3	7	3	4	0	3	43	57
		BINA	2	4	4		0	0	100	0
		CDB	3	3	2	1	0	3	67	33
		BSRTI	2	3	0	3	0	2	0	100
		BAU	4	6	6	0	0	0	100	0
		Total	28	44	25	19	0	16	477	423
		Average	3	5	3	2	0	2	53	47
134	Determination of Critical Limit of Nutrients for Soils and Crops	BARC	4	6	2	3	1	6	33	50
		BARI	3	3	2	1	0	6	67	33
		BRRRI	3	12	7	4	1	6	58	33
		BINA	3	12	8	3	1	12	67	25
		BAU	3	15	12	3	0	6	80	20
		Total	16	48	31	14	3	36	305	161
		Average	3	10	6	3	1	7	61	32
135	Improvement of soil health and crop productivity in climate vulnerable and polluted areas through organic amendments	BARC	3	15	6	8	1	2	40	53
		BARI	3	17	9	7	1	6	53	41
		BRRRI	3	6	6		0	0	100	0
		BINA	3	8	5	3	0	8	63	38
		BAU	3	5	1	4	0	8	20	80
		BSMRAU	3	3	1	2	0	6	33	67
		SAU	3	4	3	1	0	8	75	25
		Total	21	58	31	25	2	38	384	304
Average	3	8	4	4	0	5	55	43		

138	Determination of Antimicrobial Resistance and Residues in Livestock and Poultry Food Products and Feed in Bangladesh	BARC	3	10	7	2	1	6	70	20
		BAU	5	10	4	6	0	6	40	60
		BLRI	3	9	1	8	0	6	11	89
		RU	4	13	8	3	2	8	62	23
		PSTU	3	6	2	3	1	3	33	50
		CVASU	4	4	2	2	0	1	50	50
		Sylhet Agricultural University	3	8	4	4	0	5	50	50
		HSTU	4	8	1	7	0	8	13	88
		Total	29	68	29	35	4	43	329	430
Average	4	9	4	4	1	5	41	54		
139	Preparedness for the control of PPR in Bangladesh	BARC	1	10	5	4	1	6	50	40
		BLRI	1	3	0	3	0	8	0	100
		BAU	2	4	0	4	0	12	0	100
		Total	4	17	5	11	1	26	50	240
		Average	1	6	2	4	0	9	17	80
151	Transformation of Agriculture for Food Security and Poverty Reduction	BARC	2	15	5	7	3	6	33	47
		BAU	4	10	4	4	2	6	40	40
		Prottasha Foundation	3	12	8	4	0	2	67	33
		Total	9	37	17	15	5	14	140	120
		Average	2	9	4	4	1	4	35	30
152	Development of protective culture technology for safe and quality vegetables and fruits production	BARI	2	10	2	6	2	3	20	60
		SAU	2	7	2	5	0	4	29	71
		Total	4	17	4	11	2	7	49	131
		Average	2	9	2	6	1	4	25	66
153	Development of Production Package for Horticultural Crops in Rooftop and Open Space in Urban Areas of Bangladesh	HRC, BARI	3	3	0	3	0	6	0	100
		Floriculture Division, BARI	3	3	0	3	0	4	0	100
		Pomology Division, BARI	2	6	0	6	0	4	0	100
		SAU	3	8	0	8	0	1	0	100
		Total	11	20	0	20	0	15	0	400
		Average	3	5	0	5	0	4	0	100
154	Sustainable Development of Indigenous fisheries in Baors of south-western Bangladesh through Multiple-Functions for Ensuring the Food Security	BARC	5	4	0	4	0	6	0	100
		RU	3	8	0	8	0	6	0	100
		JUST	3	14	3	11	0	6	21	79
		Total	11	26	3	23	0	18	21	279
		Average	4	9	1	8	0	6	7	93
155	Exploration of exogenous enzymes, bivalent efficacy and Omega-3 fatty acid of microbes and small in-vertebrates as potential feed supplement for enhancing fish and shrimp productivity	BARC	5	6	0	6	0	12	0	100
		NSTU	4	9	4	4	1	18	44	44
		BFRI	3	4	0	4	0	10	0	100
		BSMRAU	2	5	0	5	0	13	0	100
		Total	14	24	4	19	1	53	44	344
		Average	4	6	1	5	0	13	11	86
156	Stock Assessment of Commercially Important Fishes in the Bay of Bengal through Multi-model inferences and molecular markers: Management policy implications considering the emerging climate change	BARC	5	5	0	5	0	12	0	100
		RU	3	7	0	7	0	6	0	100
		SAU	5	10	0	10	0	18	0	100
		Total	13	22	0	22	0	36	0	300
		Average	4	7	0	7	0	12	0	100
157	Development of Fish-based food products and extension of shelf life to enhance nutritional security	BARC	5	5	0	5	0	12	0	100
		RU	3	4	0	4	0	16	0	100
		NSTU	3	9	2	7	0	9	22	78
		Total	11	18	2	16	0	37	22	278
		Average	4	6	1	5	0	12	7	93
158	Analysis of agricultural policy on food system and rural development in Bangladesh: Case of Hoar area (Wetland) Management Practice	BARC	3	15	4	10	1	6	27	67
		BAU	3	13	5	7	1	5	38	54
		Sylhet Agricultural University	3	12	4	7	1	5	33	58
		Total	9	40	13	24	3	16	98	179
		Average	3	13	4	8	1	5	33	60
159	Formulation of bio-pesticides to control bakanae disease of rice in field condition	BRRRI	4	4	0	3	1	18	0	75
		Islamic University	2	3	0	2	1	4	0	67
		Total	6	7	0	7	2	7	0	7
		Average	3	4	0	4	1	4	0	4

Sub-Project wise Financial Progress

Slot-1

ID	Total Budget	Total Release	Total Expenditure	% Total Release	% Total Expenditure	% total Exp. (TB)
001	28382520	24153647	20877308	84	85	72
002	37279896	30353597	24887296	81	82	67
005	32460000	26213493	23028057	84	89	76
007	34916643	22470523	20042152	64	89	58
010	14183074	12601107	11719950	87	91	80
011	35926300	26818134	23614628	69	85	59
013	20000000	14501566	7002777	80	67	54
016	18477763	16707386	13964354	87	82	71
020	33983990	19651880	16320965	57	75	43
021	23199596	20447787	18177522	89	87	78
026	13000000	9187500	6769060	75	73	54
029	26254768	14598062	11956404	56	66	40
030	27874504	17815531	14637724	57	63	40
031	27763193	20792013	18544567	71	74	51
035	35000000	26981876	24577889	69	84	62
036	37703559	29906536	26114601	73	78	59
037	37998612	29941447	27895445	66	78	59
049	10000000	8283970	5587825	82	56	46
051	15625000	9551911	6841213	58	73	43
054	10000000	8688966	6518670	84	69	58
061	37000000	30059918	25588413	81	86	69
064	11000000	10293098	9978167	93	98	91
070	21193260	14825974	10241259	70	66	46
072	23800000	14472035	11965733	61	79	50
074	27161506	21111386	17449579	79	82	65
077	29010356	21144292	17328339	78	80	61
087	20789575	9474218	5862593	50	62	32
089	16000000	12828375	11253410	81	86	70
091	15438152	13158170	12363065	86	94	81
096	37000000	29298258	25173530	82	87	72
098	36000000	26000579	21619825	74	83	62
099	27500000	17950183	15507692	64	78	53
103	31991600	19043160	15860741	63	84	54
108	16932244	12726501	10793845	74	83	61
110	9318569	8189495	6361180	79	63	54
128	37694221	28789259	23898638	94	99	83
134	32861111	26077551	22960709	79	87	70
135	37126906	30781660	27621408	84	89	75
138	38168710	28868285	23267272	76	80	61
139	19773142	15467460	13650096	76	87	67
	38168710	30781660	27895445	94	99	91
	9318569	8189495	5587825	50	56	32

Slot-2

ID	Total Budget	Total Release	Total Expenditure	% Total Release	% Total Expenditure	% total Exp. (TB)
043	27067000	12611786	8901020	48	68	33
097	17500000	10256080	7387862	58	70	41
151	19500000	11153775	9353564	58	84	48
152	17000000	11633211	6515447	69	55	39
153	21500000	12492411	8136577	55	64	36
154	24000000	14691690	12039698	62	79	49
155	28040000	12426904	8824741	43	54	23
156	33000000	17228875	13244688	49	74	36
157	27800000	10330130	6783851	38	66	24
158	14700000	8821620	6992460	59	85	50
159	8021000	4262273	3307022	62	82	52
	33000000	17228875	13244688	69	85	52
	8021000	4262273	3307022	38	54	23

Component wise Financial Progress

Project ID	Title of the sub-project		Total Budget	Total Release	Total Expenditure	% Total Release	% Total Expenditure	% total Exp. (TB)
001	Up-scaling and Application of Solar Photovoltaic Pump for Smallholder Irrigation and Household Appliances in the Central Coastal Region of Bangladesh	BARC	6668180	5009925	3919719	75	78	59
		BARI	10769850	10065267	8578849	93	85	80
		BRII	10944490	9078455	8378740	83	92	77
		Total	28382520	24153647	20877308	252	256	215
	Average				84	85	72	
002	Groundwater resources management for sustainable crop production in northwest hydrological region of Bangladesh	BARC	7774921	5918382	4551266	76	77	59
		BARI	11521880	9368420	7737933	81	83	67
		BRII	10420025	8758730	7097076	84	81	68
		BINA	7563070	6308065	5501021	83	87	73
		Total	37279896	30353597	24887296	325	328	267
	Average				81	82	67	
005	Transfer of Agricultural Technologies to farmers' level for increasing farm productivity	BARC	7900000	5052553	3843387	64	76	49
		BINA	2300000	2060715	2053240	90	100	89
		BARI	2500000	2259680	2239363	90	99	90
		BLRI	2300000	2015260	1929366	88	96	84
		BFRI	2800000	2571250	2540881	92	99	91
		BWMRI	2100000	1741330	1406271	83	81	67
		BSRI	2100000	1925685	1856762	92	96	88
		CDB	2500000	2131265	1716698	85	81	69
		BJRI	2800000	2088800	1678485	75	80	60
		BRII	2550000	2214325	1724779	87	78	68
		SRDI	2610000	2152630	2036125	82	95	78
		Total	32460000	26213493	23028057	927	980	832
	Average				84	89	76	
007	Value addition and standardization of nutritional level in selected food items from Animal and plant origin	BRC	11477771	5337903	4276064	47	80	37
		PSTU	16543232	12071610	10978668	73	91	66
		HSTU	6895640	5061010	4787420	73	95	69
		Total	34916643	22470523	20042152	193	266	173
	Average				64	89	58	
010	DNA marker-assisted breeding for producing highly stress tolerant elite rice varieties for coastal Bangladesh by introgression of multiple salt tolerance loci (QTLs) into commercial cultivars	BRII	5080156	4136720	3488435	81	84	69
		DU	9102918	8464387	8231515	93	97	90
		Total	14183074	12601107	11719950	174	182	159
	Average				87	91	80	
011	Food-based initiative for improving household food security, income generation and minimize malnutrition	BARC	5986980	3001862	2432526	50	81	41
		BLRI	20428780	16629512	15144357	81	91	74
		NSTU	9510540	7186760	6037745	76	84	63
		Total	35926300	26818134	23614628	207	256	178
	Average				69	85	59	
013	Development of lean season fruit varieties and management packages	HRC, BARI	17848780	12685626	5591545	71	44	31
		Plant Pathology Division, BARI	1161120	979640	731469	84	75	63
		Entomology Division, BARI,	990100	836300	679763	84	81	69
		Total	20000000	14501566	7002777	240	200	163
	Average				80	67	54	
016	Integration of Postharvest Technologies and Best Practices in the Value Chains of Fruits and Vegetables	Postharvest Technology Division, BARI,	1349040	923545	705647	68	76	52
		Postharvest Technology Section, HRC, BARI	7443330	6768030	5293640	91	78	71
		FMPR, BARI	6294692	5708045	5321135	91	93	85
		DU	3390701	3307766	2643932	98	80	78
		Total	18477763	16707386	13964354	348	328	286
	Average				87	82	71	
020	Development of Production Package for Export and Processing Potatoes to Sustain Productivity and Food Security in Bangladesh	BARI	27523417	15553900	13155153	57	85	48
		SAU	3463973	2632980	2227232	76	85	64
		Giant Agro Processing Ltd.,	1733300	1010000	622723	58	62	36
		Quasem Food Products Ltd	1263300	455000	315857	36	69	25
		Total	33983990	19651880	16320965	227	300	173
	Average				57	75	43	
021	Cost and Return Analysis of Selected Crops in Bangladesh	BARC	9606805	7498603	6479396	78	86	67
		BARI	11349541	10841964	9954137	96	92	88
		BINA	2243250	2107220	1743989	94	83	78
		Total	23199596	20447787	18177522	268	261	233
	Average				89	87	78	
026	Development of integrated crop management technologies for higher production of coconut in Bangladesh	HRC, BARI	4700000	2950000	1970255	63	67	42
		Entomology Division, BARI	3850000	2500000	2054694	65	82	53
		Pathology Division, BARI	1450000	1300000	811594	90	62	56
		SSURDA	3000000	2437500	1932517	81	79	64
		Total	13000000	9187500	6769060	299	291	216
	Average				75	73	54	
029	Up-scaling of mud crab (Scylla olivacea) aquaculture in Bangladesh: Adoption of innovative techniques from seed production to fattening and health management	BFRI, Mymensingh	1120000	734890	411177	66	56	37
		BARC	4855000	1485600	442787	31	30	9
		BFRI, Paikgacha	12254768	5723420	5266038	47	92	43
		KU	8025000	6654152	5836402	83	88	73
		Total	26254768	14598062	11956404	226	265	162
		Average				56	66	40

Project ID	Title of the sub-project		Total Budget	Total Release	Total Expenditure	% Total Release	% Total Expenditure	% total Exp. (TB)
030	Investigation and characterization of viral and bacterial diseases in highly consumed fin fishes and Shrimp in Bangladesh and development of their vaccines and validation	BARC	4496500	1862810	565133	41	30	13
		BFRI	7654512	4270121	2656782	56	62	35
		BAU	15723492	11682600	11415809	74	98	73
		Total	27874504	17815531	14637724	172	190	120
	Average				57	63	40	
031	Development of in-situ Breeding Technology of Prawn (Macrobrachium rosenbergii) and Adoption of Sustainable Eco-Friendly Culture of Prawn and Shrimp (Penaeus monodon)	BFRI, Mymensingh	1153200	1059877	291625	92	28	25
		BARC	4159993	1062500	848674	26	80	20
		BFRI, Bagerhat	14910000	12120186	10859899	81	90	73
		KU	7540000	6549450	6544369	87	100	87
Total	27763193	20792013	18544567	286	297	205		
Average				71	74	51		
035	Sustainable Fisheries Development for Haor and Beel Community through Improved Management Approach	BARC	3628000	991400	567374	27	57	16
		SAU	12000000	10237638	9931147	85	97	83
		SUST	6000000	5095705	4874862	85	96	81
		RU	13372000	10657133	9204506	80	86	69
Total	35000000	26981876	24577889	277	336	248		
Average				69	84	62		
036	Post-harvest Losses, Supply and Value Chain Analysis of Fisheries Sub-sector in Bangladesh	BARC	4358419	2375210	1315194	54	55	30
		BAU	13812020	11001738	9856392	80	90	71
		PSTU	19533120	16529588	14943015	85	90	77
		Total	37703559	29906536	26114601	219	235	178
Average				73	78	59		
037	Improvement of existing fattening technology of carp and high valued small indigenous species (SIS) through good aquaculture practices (GAP) in different agro-ecosystems	BARC	4692858	1124700	477537	24	42	10
		RU	20706230	17498063	16449073	85	94	79
		PSTU	12599524	11318684	10968835	90	97	87
		Total	37998612	29941447	27895445	198	233	177
Average				66	78	59		
043	Microbial characterization of Bangladesh soil and development of climate smart biofertilizers for crop production and soil fertility	BARC	5332321	1789700	1093624	34	61	21
		BARI	8623270	3339464	2823790	39	85	33
		BRRRI	4410900	2359400	1166542	53	49	26
		BINA	5038000	3172913	2513549	63	79	50
		BSRI	3662509	1950309	1303515	53	67	36
		Total	27067000	12611786	8901020	242	341	165
Average				48	68	33		
049	Adaptation and Scaling up Agroforestry for Livelihood Improvement of farmers in Agricultural Ecosystem of Bangladesh	OFRD, BARI	7766000	6484410	4932399	83	76	64
		HRC, BARI	2234000	1799560	655426	81	36	29
		Total	10000000	8283970	5587825	164	112	93
Average				82	56	46		
051	Validation of Crop Intensification Technologies for Improving System Productivity, Soil Health and Farm Income in South Central Coastal Region	Director (Research), BARI	1145000	492749	382950	43	78	33
		Soil Science Division, BARI	7100000	4272662	2954062	60	69	42
		Oilseed Research Centre, BARI	3730000	2368400	1696183	63	72	45
		Agrarian Research Foundation	3650000	2418100	1808018	66	75	50
		Total	15625000	9551911	6841213	233	293	170
Average				58	73	43		
054	Introduction of Profitable and Agro-Ecologically Suitable Crop Varieties and Development of Marketing Systems for the Charlands of Northern Bangladesh	OFRD, BARI, Gazipur	892000	709500	333595	80	47	37
		OFRD, Rajshahi	5068296	4790186	3354816	95	70	66
		BAU	4039704	3189280	2830259	79	89	70
		Total	10000000	8688966	6518670	253	206	174
Average				84	69	58		
061	Integrated Farming Research and Development for Livelihood Improvement in the Plain land Eco-system	BARC	6300000	4690743	4026252	74	86	64
		BARI	16000000	13374040	11177098	84	84	70
		BRRRI	6000000	5156400	4566238	86	89	76
		BFRI	8700000	6838735	5818825	79	85	67
		Total	37000000	30059918	25588413	323	343	277
Average				81	86	69		
064	Design and development of fertilizer deep placement mechanism for existing rice transplanter	FMPHT Division, BRRRI	9031738	8456613	8161667	94	97	90
		Soil Science Division, BRRRI	1968262	1836485	1816500	93	99	92
		Total	11000000	10293098	9978167	187	195	183
Average				93	98	91		
070	Economic Viability and Production Efficiency of Rice at Farm Level: A Macro Level Study in Bangladesh	BRRRI	15108720	10473100	7721030	69	74	51
		BAU	6084540	4352874	2520229	72	58	41
		Total	21193260	14825974	10241259	141	132	93
Average				70	66	46		
072	Germplasm conservation and farm productivity enhancement through the interaction of shade trees and tea based agroforestry system to mitigate the climate change	BARC	9311658	4204900	3469867	45	83	37
		Sylhet Agricultural University	7810612	7247665	6627640	93	91	85
		BTRI	6677730	3019470	1868226	45	62	28
Total	23800000	14472035	11965733	183	236	150		
Average				61	79	50		
074	Identification, Multiplication and Ex-situ Conservation of Endangered Forest Genetic Resources including Medicinal plants of Bangladesh	BARC	8267036	4761700	3647124	58	77	44
		BAU	6577800	5660291	4526192	86	80	69
		BFRI	7473270	6549495	5850641	88	89	78
		CU	4843400	4139900	3425622	85	83	71
		Total	27161506	21111386	17449579	317	329	262
Average				79	82	65		

ASSESSMENT OF PBRG SUB PROJECTS FOR
ADDITIONAL TIME AND FUND REQUIREMENT

Project ID	Title of the sub-project		Total Budget	Total Release	Total Expenditure	% Total Release	% Total Expenditure	% total Exp. (TB)
077	Upliftment of Farmers Livelihood and Enrichment of Environment through Improved Agroforestry Practices in Char Land Ecosystem of Bangladesh	BARC	12115340	6728954	6325547	56	94	52
		Department of Agroforestry, BAU	6253226	5327103	4953506	85	93	79
		BARI	7519050	6402325	4245150	85	66	56
		Department of Agricultural Economics, BAU	3122740	2685910	1804136	86	67	58
		Total	29010356	21144292	17328339	312	320	246
	Average				78	80	61	
087	Eco-friendly Rodent Management Through Owl Conservation	BARRI	13518451	4674083	2771787	35	59	21
		BARI	7271124	4800135	3090806	66	64	43
		Total	20789575	9474218	5862593	101	124	63
		Average				50	62	32
089	Establishment of profitable cropping pattern through crop intensification in underutilized unfavorable ecosystem	Plant Breeding Division, BINA	1800000	1478830	1253069	82	85	70
		Adaptive Research and Extension Division, BINA	11700000	9289315	8283902	79	89	71
		Agricultural Economics Division, BINA	2500000	2060230	1716439	82	83	69
		Total	16000000	12828375	11253410	244	257	209
	Average				81	86	70	
091	Identification of novel resistant gene(s), gene pyramiding and sustainable management of bacterial blight (BB) disease of rice for ensuring food security	BARRI	10481120	8741865	8233702	83	94	79
		BAU	4957032	4416305	4129363	89	94	83
		Total	15438152	13158170	12363065	172	188	162
		Average				86	94	81
096	Improvement of Farm Productivity through Intervention with Improved Agricultural Technologies in Char land Eco-System	BARC	10200000	5571898	3931162	55	71	39
		BARI	10000000	8972228	7453169	90	83	75
		BLRI	5600000	4709355	4243876	84	90	76
		BINA	5700000	5066056	4849171	89	96	85
		BSRI	5500000	4978721	4696152	91	94	85
		Total	37000000	29298258	25173530	408	434	359
	Average				82	87	72	
097	Livelihood Improvement of Farmers through Integrated Farming System Research and Development of Drought and Rainfed Ecosystem	BARC	4000000	1912200	1108239	48	58	28
		BARI	10500000	6431400	4781800	61	74	46
		BLRI	3000000	1912480	1497823	64	78	50
		Total	17500000	10256080	7387862	173	211	123
	Average				58	70	41	
098	Climate Resilient Farming Systems Research and Development for the Coastal Ecosystem	BARC	9800000	5640150	3951480	58	70	40
		BARI	13000000	9452130	7870936	73	83	61
		BARRI	6600000	5592790	5272729	85	94	80
		BINA	6600000	5315509	4524680	81	85	69
		Total	36000000	26000579	21619825	296	333	249
	Average				74	83	62	
099	Enrichment and standardization of nutritional level in selected food items to mitigate human malnutrition	BARC	4007000	1733800	779782	43	45	19
		BARI	8715000	4407350	3318138	51	75	38
		BARRI	6278000	5184983	5092918	83	98	81
		BAU	8500000	6624050	6316854	78	95	74
		Total	27500000	17950183	15507692	254	314	213
	Average				64	78	53	
103	Contamination and adulteration of food and food products, process, chain and mollification	BARC	12499270	6183500	5067449	49	82	41
		BARI	12427550	6869390	5184522	55	75	42
		BFRI	7064780	5990270	5608770	85	94	79
		Total	31991600	19043160	15860741	190	251	162
	Average				63	84	54	
108	Development of knowledge hub on Animal Feed Resources for efficient feeding management of ruminants to enhance productivity	BARC	1372300	1003234	765880	73	76	56
		BLRI	7461996	6127686	5367600	82	88	72
		BAU	4186475	2075369	1800288	50	87	43
		Sylhet Agricultural University	3911473	3520212	2860077	90	81	73
		Total	16932244	12726501	10793845	295	332	244
	Average				74	83	61	
110	Application of Gamma-ray Irradiation to develop stress tolerant capability in fodder crops and their production performance under on-station and on-farm conditions	BARC	600000	351806	85788	59	24	14
		BLRI	5858269	5337639	4031281	91	76	69
		BINA	2860300	2500050	2244111	87	90	78
		Total	9318569	8189495	6361180	237	190	162
	Average				79	63	54	
128	Collection and Characterization of Important Plant Genetic Resources	BARC	11394310	5617750	5232580	49	93	46
		BARI	9500000	8322364	5028032	88	60	53
		BARRI	5000000	4316250	4054782	86	94	81
		BARI	1500001	1288307	1056750	86	82	70
		BSRI	1999990	1842110	1573871	92	85	79
		BINA	3299920	3085543	2952148	94	96	89
		CDB	1500000	1295875	1276367	86	98	85
		BSRTI	1500000	1280260	1273663	85	99	85
		BAU	2000000	1740800	1450445	87	83	73
		Total	37694221	28789259	23898638	754	792	661
			Average				94	99
134	Determination of Critical Limit of Nutrients for Soils and Crops	BARC	6225715	3590974	2793945	58	78	45
		BARI	7011920	5113380	4370817	73	85	62
		BARRI	6863125	5967218	5166670	87	87	75
		BINA	6222511	5664669	5371650	91	95	86
		BAU	6537840	5741310	5257627	88	92	80
		Total	32861111	26077551	22960709	396	436	349
	Average				79	87	70	

Project ID	Title of the sub-project		Total Budget	Total Release	Total Expenditure	% Total Release	% Total Expenditure	% total Exp. (TB)
135	Improvement of soil health and crop productivity in climate vulnerable and polluted areas through organic amendments	BARC	7173200	4079200	3549637	57	87	49
		BARI	6623650	5906805	5588672	89	95	84
		BRRRI	5154693	4578423	4217177	89	92	82
		BINA	3736820	3384373	2949987	91	87	79
		BAU	4740140	4174352	3818032	88	91	81
		BSMRAU	6722403	6077507	5497421	90	90	82
		SAU	2976000	2581000	2000482	87	78	67
		Total	37126906	30781660	27621408	591	620	524
Average				84	89	75		
138	Determination of Antimicrobial Resistance and Residues in Livestock and Poultry Food Products and Feed in Bangladesh	BARC	6169021	3989954	2235439	65	56	36
		BAU	6839362	5266869	4915051	77	93	72
		BLRI	3940677	3173212	2629349	81	83	67
		RU	3945500	2944088	2204300	75	75	56
		PSTU	3999120	3094349	2355905	77	76	59
		CVASU	4941960	3781907	3291173	77	87	67
		Sylhet Agricultural University	4264750	3622462	3556536	85	98	83
		HSTU	4068320	2995444	2079519	74	69	51
		Total	38168710	28868285	23267272	609	638	491
Average				76	80	61		
139	Preparedness for the control of PPR in Bangladesh	BARC	5581510	3047530	2483538	55	81	44
		BLRI	8194162	7320763	6688658	89	91	82
		BAU	5997470	5099167	4477900	85	88	75
		Total	19773142	15467460	13650096	229	261	201
Average				76	87	67		
151	Transformation of Agriculture for Food Security and Poverty Reduction	BARC	8078210	4485455	3790941	56	85	47
		BAU	5849720	3047040	2535235	52	83	43
		Prottasha Foundation	5572070	3621280	3027388	65	84	54
		Total	19500000	11153775	9353564	173	251	145
Average				58	84	48		
152	Development of protective culture technology for safe and quality vegetables and fruits production	BARI	9096160	5171211	2548720	57	49	28
		SAU	7903840	6462000	3966727	82	61	50
		Total	17000000	11633211	6515447	139	111	78
Average				69	55	39		
153	Development of Production Package for Horticultural Crops in Rooftop and Open Space in Urban Areas of Bangladesh	HRC, BARI	1155000	398771	198540	35	50	17
		Floriculture Division, BARI	10201000	5764370	3255954	57	56	32
		Pomology Division, BARI	4671000	3639820	2415842	78	66	52
		SAU	5473000	2689450	2266241	49	84	41
		Total	21500000	12492411	8136577	218	257	142
Average				55	64	36		
154	Sustainable Development of Indigenous fisheries in Baors of south-western Bangladesh through Multiple-Functions for Ensuring the Food Security	BARC	2332000	1501000	1083635	64	72	46
		RU	12556000	7675290	6447339	61	84	51
		JUST	9112000	5515400	4508724	61	82	49
		Total	24000000	14691690	12039698	186	238	147
Average				62	79	49		
155	Exploration of exogenous enzymes, bivalent efficacy and Omega-3 fatty acid of microbes and small invertebrates as potential feed supplement for enhancing fish and shrimp productivity	BARC	1030000	510000	58878	50	12	6
		NSTU	6110000	1953008	1037804	32	53	17
		BFRI	9132000	3041426	2172143	33	71	24
		BSMRAU	11768000	6922470	5555916	59	80	47
		Total	28040000	12426904	8824741	174	216	94
Average				43	54	23		
156	Stock Assessment of Commercially Important Fishes in the Bay of Bengal through Multi-model inferences and molecular markers: Management policy implications considering the emerging climate change	BARC	1480000	650000	426476	44	66	29
		RU	18780000	10580335	8122230	56	77	43
		SAU	12740000	5998540	4695982	47	78	37
		Total	33000000	17228875	13244688	147	221	109
Average				49	74	36		
157	Development of Fish-based food products and extension of shelf life to enhance nutritional security	BARC	6063000	1678750	1017686	28	61	17
		RU	12837000	3489470	2837449	27	81	22
		NSTU	8900000	5161910	2928716	58	57	33
		Total	27800000	10330130	6783851	113	199	72
Average				38	66	24		
158	Analysis of agricultural policy on food system and rural development in Bangladesh: Case of Hoar area (Wetland) Management Practice	BARC	3889517	2128800	1958460	55	92	50
		BAU	7328430	4543740	2904158	62	64	40
		Sylhet Agricultural University	3482053	2149080	2129842	62	99	61
		Total	14700000	8821620	6992460	178	255	151
Average				59	85	50		
159	Formulation of bio-pesticides to control bakanae disease of rice in field condition	BRRRI	6783720	3324063	2462994	49	74	36
		Islamic University	1237280	938210	844028	76	90	68
		Total	8021000	4262273	3307022	125	164	105
Average				62	82	52		

Sub-Project wise Procurement Progress

Slot-1

SI No.	Project ID	Achievement (Package)						
		Target	2017-18	2018-19	2019-20	2020-21	Total	Rest
1	001	12	1	10	0	1	12	0
2	002	21	0	14	4	3	21	0
3	005	21	0	11	8	2	21	0
4	007	29	0	9	12	7	28	1
5	010	13	0	7	6	0	13	0
6	011	27	0	16	9	0	25	2
7	013	6	0	2	4	0	6	0
8	016	16	1	13	2	0	16	0
9	020	7	0	2	5	0	7	0
10	021	6	0	6	0	0	6	0
11	026	0	0	0	0	0	0	0
12	029	26	0	11	3	2	16	10
13	030	25	0	12	8	3	23	2
14	031	24	0	16	6	2	24	0
15	035	39	0	25	8	5	38	1
16	036	5	0	4	1	0	5	0
17	037	34	0	18	12	4	34	0
18	049	3	0	0	2	0	2	1
19	051	15	0	5	5	1	11	4
20	054	8	0	4	3	1	8	0
21	061	17	0	5	7	4	16	1
22	064	7	0	5	2	0	7	0
23	070	6	0	4	0	2	6	0
24	072	16	0	6	3	3	12	4
25	074	15	0	8	4	2	14	1
26	077	15	0	10	2	0	12	3
27	087	13	0	7	0	0	7	6
28	089	13	0	1	9	3	13	0
29	091	20	0	11	2	0	13	7
30	096	20	0	5	5	0	10	10
31	098	16	0	8	3	0	11	5
32	099	26	0	8	11	0	19	7
33	103	15	0	9	3	0	12	3
34	108	11	0	3	5	0	8	3
35	110	14	0	5	7	0	12	2
36	128	37	0	13	10	0	23	14
37	134	31	0	20	7	0	27	4
38	135	40	0	20	13	1	34	6
39	138	49	0	26	8	11	45	4
40	139	20	0	11	5	2	18	2
	Sub-Total	738	2	370	204	59	635	103
		18	0	9	5	1	16	3

Slot-2

41	043	24	0	0	15	3	18	6
42	097	8	0	0	6	0	6	2
43	151	8	0	0	8	0	8	0
44	152	13	0	0	8	0	8	5
45	153	26	0	0	13	0	13	13
46	154	29	0	0	19	0	19	10
47	155	30	0	0	10	5	15	15
48	156	29	0	0	14	5	19	10
49	157	18	0	0	6	3	9	9
50	158	3	0	0	3	0	3	0
51	159	8	0	0	5	0	5	3
	Sub-total	196	0	0	107	16	123	73
		18	0	0	10	1	11	7
	Total	934	2	370	311	75	758	176



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