

Log Frame of NATP-2

Log frame for National Agricultural Technology Program- Phase II Project (NATP-2)

Narrative Summary	Objectively Verifiable Indicators (OVI)	Means of Verifications (MOV)	Important Assumptions (IA)
I. Program Goal			
<p>Goal: The overall program goal of NATP-2 is to • Increase agricultural productivity of smallholder farmers and improve small holder farmers' access to market in selected districts</p>	<p>By the end of the project period:</p> <ul style="list-style-type: none"> • Yield of major agricultural commodities increased by 8-100% at the end of the project; • By the end of the project 21,400 metric tons of agricultural commodities sold through project arranged marketing facilities; • Over 1 million farmers benefited directly from the project interventions; • Postharvest loss in selected commodities (banana, vegetables, aromatic rice; tilapia, koi, pangus, shrimp; beef, goat, meat; etc) reduced by 5-10% 	<ul style="list-style-type: none"> • Field monitoring, mid-term review/evaluation and impact assessment reports • Annual reports • Baseline/midline/endline survey reports 	<ul style="list-style-type: none"> • Major climatic hazards do not occur in the project areas • Price of agricultural inputs remain within the reach of the beneficiaries • Producers-local market/ urban market linkages remain uninterrupted • GOB's Agriculture Policy remains favorable
II. Project Purpose (Outcomes)			
<p>Project Purpose is to improve effectiveness of the national agricultural technology generation, extension and marketing systems</p>	<p>By the end of the project period:</p> <ul style="list-style-type: none"> • Technology/information generation through 100 competitive research grants (CRG) and 33 program based research grants (PBRG) subprojects implementation; • Supporting to 1 million farmers through mobilization and organization of 40710 CIGs; • At least one technology adoption by 60% CIG farmers (35% female); • Yield/productivity increase of selected agricultural commodities by 08-100% targeted; • Providing 4.3 million client days training; • 140 CCMC, rural business centers, rural markets, collection points, milk centers, etc established/improved; • ICT facilities developed and connectivity established among the stakeholders; • Food & food safety laboratories established and service provided 	<ul style="list-style-type: none"> • Reports of PIUs of BARC, DAE, DOF, DLS • Field monitoring report, evaluation report of sample upazilas 	<ul style="list-style-type: none"> • Farmers' technological needs properly identified and addressed • Inter-ministry and inter-agency coordination and cooperation effective and strengthened • Research-extension-farmers-market linkages improved and maintained
III. Project Outputs			

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<p>1. Research-outputs Improved performance of the NARS by supporting the development of innovative agricultural technologies and strengthening agricultural research institutions</p>	<p>By the end of the project period:</p> <ul style="list-style-type: none"> • 100 CRG and 33 PBRG subprojects implemented; • 80 local PhD, 60 foreign PhD, short-term training, study visit, etc implemented; • Research and training facilities in outreach stations (RARS/ ARS) improved; • ICT facilities developed and connectivity established among ARS, RARS and NARI-HQs 	<ul style="list-style-type: none"> • Field monitoring/ evaluation reports • PIU-BARC, PMU, field visit reports, annual reports and ISM reports 	<ul style="list-style-type: none"> • Priority researchable issues identified focusing farmers and other stakeholders' needs • Adequate number of relevant research proposals received for competitive selection • Effective supervision and monitoring by the respective research organizations and BARC
<p>2. Extension-outputs Increased productivity, quality and outputs through the enhanced transfer of improved technologies, as well as to facilitate farmers' access to markets</p>	<p>By the end of the project period:</p> <ul style="list-style-type: none"> • 40,710 CIGs (crops-27150, fisheries-5,430 and livestock-8,130) formed, organized, mobilized and supported in 270 upazilas ensuring 35% women participation in project; • 60% of CIG farmers (including 35% female) adopted at least 1 improved technology promoted by the project; • 194,835 demonstrations conducted by DAE (138,474), DOF (16290) & DLS (40071) ; • 1080 validation trials conducted; • Yield/productivity of selected agricultural commodities increased by 08-100% (rice 14%, wheat 10%, tomato 20%, eggplant 25%, banana 15%, lentil 16%, mustard 12%, maize 12%, potato 8%, onion 10%, garlic 10%, mungbean 16%; dairy 30%, beef 40%, culture fishery 60%, and capture fishery 100%) (details in Attachment 4); • 3000 technology adoption sub-projects with AIF-2 matching grants and 500 value chain and marketing sub-projects with AIF-3 grants implemented; • 20 Horticulture centers, one central pesticide laboratory, 8 seed testing laboratory of SCA and 546 training and FIAC facilities (district-16, upazila-80 and FIAC-450) of DAE in the project areas improved / modernized; • 07 training rooms and 03 computer 	<ul style="list-style-type: none"> • PIUs/PMU Reports • Field monitoring, mid-term review/evaluation reports • Field visit reports 	<ul style="list-style-type: none"> • Improved technologies (seeds, saplings, fingerlings, breeds semen, etc) available • Improved technologies for field validations/ demonstrations available • Farmers understood and accepted AIF operation and management procedures • Enough women farmers available in project areas to make their participation • No major natural hazards occurred during crop season

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	<p>laboratory developed; 110 dormitory rooms renovated and furnished in DOF training centers; 02 fish landing centers established and supported with equipment and logistics; 2 Fish feed and ingredient testing laboratories and NRCP supported with equipment, reagents and chemicals; and 40 beels brought under appropriate fisheries management by establishing fish sanctuaries, beel nurseries, stocking fish fry/fingerlings and introducing fishing code under DOF;</p> <ul style="list-style-type: none"> • Laboratory equipment and materials for 01 CDIL, 07 FDIL, 01 Central Nutrition laboratory, 01 AI laboratory, 01 Public Health laboratory, and Upazila Veterinary Hospitals of DLS provided; • ICT connectivity among the stakeholders established/enhanced 		
<p>3. Market Access (Supply/Value Chains) Improvement of smallholder farmers access to markets</p>	<p>By the end of the project period:</p> <ul style="list-style-type: none"> • One PO mobilized in each production clusters (crops, fisheries and livestock); • Value chains program established in:(i) 30 clusters in 30 upazilas for crops;(ii) 20 POs in 20 upazilas; and 02 special POs one each in Mymensingh and Natore districts established with logistic support and training for fisheries; and(iii) 120 potential CIGs for livestock; • By the end of the project 21,400 metric tons of agricultural commodities sold through project arranged marketing facilities (details in Attachment 4); • Food safety laboratories modernized, awareness developed, quality ensured and service provided; 	<ul style="list-style-type: none"> • Records of commodity collection and marketing points, rural markets, contract farmers, CIG and POs • Field monitoring/visits, mid-term review/evaluation reports 	<ul style="list-style-type: none"> • Improved packaging, storage and transport facilities available • Sufficient quantity of consumers preferable commodities produced and available at collection points for transfer to urban markets
<p>4. Project Management Overall project management efficiently carried out, coordination among the PIUs, liaison with the ministries</p>	<ul style="list-style-type: none"> • Project activities/ interventions of PIUs initiated, progressed and achieved as per targets; • Fund provided to PIUs and achieved PDOs; • Research-extension-farmers-market linkages facilitated; • Program target of PIUs in research, extension and market access 	<ul style="list-style-type: none"> • Proceedings of JPSC, PIC and coordination meetings • Monitoring, evaluation and impact assessment reports • Audit reports • Withdrawal applications submitted 	<ul style="list-style-type: none"> • Regular SOEø from PIUs available • Monitoring conducted and report submitted quarterly • Decisions of JPSC meetings complied with • Effective inter

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and development partners effectively maintained	achieved; • JPSC and other coordination meetings, monitoring, evaluation, impact assessment, audit, etc, arranged and implemented and communicated to PIUs		ministry and inter agency coordination and cooperation
IV. Project Activities			
1. Research-activities <ul style="list-style-type: none"> • Awarding CRG and PBRG subprojects • Implementing HRD programs • Improving research and training facilities • Organizing workshop /seminar /consultation meeting, etc. 	By the end of the project period: <ul style="list-style-type: none"> • 100 CRG subprojects and 33 PBRG subprojects implemented; • 80 local PhD, 60 foreign PhD, short-term training, study visit, etc implemented; • Research and training facilities in outreach stations (RARS/ ARS) improved; • ICT facilities established/ improved and operationalized; • Planned Necessary workshop / seminar / consultation meeting, etc. organized. 	<ul style="list-style-type: none"> • Field monitoring/evaluation reports • PIU-BARC, PMU, field visit reports, annual reports and ISM reports 	<ul style="list-style-type: none"> • Priority researchable issues identified focusing farmers and other stakeholders needs • Adequate number of relevant research proposals received for competitive selection • Valid nominations for higher studies and foreign trainings/study visits received from implementing agencies • Effective supervision and monitoring by the respective research organizations and BARC
2. Extension-activities <ul style="list-style-type: none"> • Farmers mobilization and CIGs & POs formation • FIACs establishment and UEFT formation & functionalization • Farmers and entrepreneurs training • Staff/Officers training • Technology demonstrations and validation trials • Organizing technology field days and exposure visits • Improvement of 	<ul style="list-style-type: none"> • 40,710 CIGs (crops-27150, fisheries-5,430 and livestock-8,130) organized, mobilized and supported; • 40,710 CIG and union extension micro plans and 270 upazila extension plans prepared and implemented; • 4.3 million client days training provided and study/exposure visits organized; • 194,835 demonstrations conducted by DAE (138,474), DOF (16290) & DLS (40071); • 1080 validation trials conducted; • 3000 technology adoption sub-projects with AIF-2 matching grants and 500 value chain and marketing sub-projects with AIF-3 matching grants implemented; • 20 Horticulture centers, one central pesticide laboratory, 8 seed testing laboratory of SCA and 546 training 	<ul style="list-style-type: none"> • PIUs/PMU Reports • Field monitoring, annual/mid-term review/evaluation reports • Field visit reports 	<ul style="list-style-type: none"> • Farmers are interested for project intervention • Farmers are interested for better market access and higher product price • UP complex exists and space available for FIAC establishment • Improved technologies (seeds, saplings, fingerlings, breeds semen, etc) available • Improved technologies for field validations/ demonstrations available • Farmers responded to AIF grants

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<p>training and laboratory facilities</p> <ul style="list-style-type: none"> • Organizing workshop/ seminar/ consultation meeting, etc. 	<p>and FIAC facilities (district-16, upazila-80 and FIAC-450) of DAE in the project areas improved / modernized;</p> <ul style="list-style-type: none"> • 07 training rooms and 03 computer laboratories of DOF developed; 110 dormitory rooms renovated and furnished in DOF training centers; 02 fish landing centers established and supported with equipment and logistics; 2 fish feed and ingredient testing laboratories and NRCP supported with equipment, reagents, chemicals; and 40 beels brought under appropriate fisheries management by establishing fish sanctuaries, beel nurseries, stocking fish fry/fingerlings and introducing fishing code under DOF; • Laboratory equipment and materials for CDIL, FDIL, Central Nutritional Laboratory, AI Laboratory, Public Health Laboratory, and Upazila Veterinary Hospitals of DLS provided; • Necessary workshop /seminar/ consultation meeting, etc. organized 		<ul style="list-style-type: none"> • Enough interested women farmers available to participate in project activities • No major natural hazards occurred during crop season • Uninterrupted fund flow for carrying out project activities
<p>3. Market Access (Value/Supply Chains)- activities</p> <ul style="list-style-type: none"> • Establishing value chain programs • Developing marketing facilities and enhancing marketing of agricultural commodities • Reducing post-harvest loss of high value commodities through improved practices • Modernizing food safety laboratories • Introducing improved post-harvest practices- grading, sorting, 	<ul style="list-style-type: none"> • Value chains program established in 30 clusters in 30 upazilas for crops; 20 POs in 20 upazilas; and 02 special POs one each in Mymensingh and Natore districts established and supported with logistic and training for fisheries and 120 potential CIGs for livestock; • By the end of the project 21,400 metric tons of agricultural commodities sold through project arranged marketing facilities (details in Attachment 4); • Food safety laboratories modernized, awareness developed, quality ensured and service provided 	<ul style="list-style-type: none"> • Records of commodity collection and marketing points, rural markets, contract farmers, CIG and POs, • Field monitoring/visits, annual/mid-term/review/evaluation reports 	<ul style="list-style-type: none"> • Improved packaging, storage and transport facilities available • Sufficient quantity of consumers preferable commodities produced and available at collection points for transfer to urban markets

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washing, packaging, transportation, etc.			
<p>4. PMU-activities</p> <ul style="list-style-type: none"> • Overall project management and coordination • Liaison with the ministries and donors • Fund flow and disbursement • Organizing capacity building in-country trainings on cross-cutting issues, and foreign trainings and study visits abroad • Organizing awareness building workshops, seminars, regional/national review workshops, etc • Regular progress monitoring, review and evaluation 	<ul style="list-style-type: none"> • Project activities/ interventions of PIUs initiated, progressed and achievements made as per plan and targets; • PIUs program target in research, extension and market access achieved; • Fund provided to PIUs and achieved PDOs; • Research-extension-farmers-market linkages facilitated; • JPSC and other coordination meetings, monitoring, evaluation, impact assessment, audit, etc, arranged & implemented and communicated to PIUs; • Capacity building through in-country trainings on cross-cutting issues, and foreign trainings and study visits abroad organized; • Awareness building workshops, seminars, regional/national review workshops, etc organized; • Pooled procurement coordinated and implemented; • Fiduciary training planed and implemented; • Strategic direction to PIUs on Environmental and Social Safeguard issues prepared and implemented. 	<ul style="list-style-type: none"> • Proceedings of JPSC, PIC and coordination meetings • Monitoring, evaluation and impact assessment reports • Audit reports • Withdrawal applications submitted • Workshop proceedings 	<ul style="list-style-type: none"> •JPSC & PIC meetings held regularly and decisions circulated and complied with in time •Effective inter ministry and inter agency coordination and cooperation maintained •Regular SOEø from PIUs received •Training need assessed and demand exists •Workshops provide forum for discussing and sharing progress and problems •Monitoring conducted and report submitted quarterly
<p>Inputs/Budget</p> <p>NATP-2 Total budget</p>	<p>(in Lakh Taka)</p> <p>Total-187800 (GOB- 27104 and RPA-160696)</p>	<ul style="list-style-type: none"> • Progress report • IMED Report • Monitoring Reports • DPP 	<ul style="list-style-type: none"> • Uninterrupted fund flow • Effective fund utilization • Timely completion of procurement packages and approved annual work plans