**PROJECTPROGRESS ASSESSMENT REPORT(PPAR)**

**National Projects**

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|  | ***Explanations*** |
| ***SECTION-1: BASIC INFORMATION*** |
| **Project Number and Title**   | IRA 2 012,To further strengthen NPPD’s capabilities for the effective project management during the design and construction phases of its two new pressurized light water reactors with emphasis on safety. | *(prefilled)* |
| **Country** | IRAN,IR |
| **CounterpartName & Institution** | Mohammad Ahmadian,Nuclear Power Production and Development Co. of Iran |
| **1st Year of Approval** | 2014 |
| **Estimated Duration** | 4 Years |
| **Expected End Date** | 2017 |
| **Total Project Budget***(as per IAEA White Book)* |  |
| **Reporting Period** | January –December 2016 | *Tick one reporting period* |
| **Report Contributors**  | Amir Afshin Rahnama | *Other contributors to the report besides counterpart* |
| **Has there been any major change that affected the project?** | ◼ Yes 🞏 NoIf yes,tick to specify nature of change(s):☐ CP1☐ NLO2◼ PMO3☐ TO4☐Budget/funding; ☐ Other(*specify*)[Provide explanation] Due to the efforts of the whole project team there is not negative impact on project implementation | *Select “Yes” or “No” and, if “Yes”, please tick relevant box(es) and describe nature of impact* |
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| ***SECTION-2: OUTPUTS ACHIEVEMENT*** |
| *Select status of Output and briefly describe elements of progress towards target indicators: (1st column prefilled)* |
| Output 1:Project Management Team Operational (100%)Indicator(s): Team trained and available | ☐ Completed ◼ On schedule ☐ Delayed ☐ Other (*specify*)[Provide explanation]……     Planned and completed:* All planned regular field monitoring and review missions on IRA2012 and IRA2013 projects implementation were completed (1.5.3).

Achievements:* Action plans reviewed and updated, needed adjustments and necessary additional measures timely made provided for successful implementation
* Requested additional assistance in high priority areas as effective project management and respective training completed very successfully
 | *Select status and provide explanation/ supporting background information (e.g., Why is the output delayed? What mitigation measures have been taken to solve the issue?)* |
| Output 2: Improved owner’s safety and engineering capacity for planning and construction of two light water reactor NPP units(75%)Indicator(s): Demonstrated reliance on local staff to perform the necessary safety-related tasks and licensing processes | ☐ Completed ◼ On schedule ☐ Delayed ☐ Other (*specify*)[Provide explanation]……     Planned and completed:* Assistance (EM) in seismic safety assessment completed in Oct. 2016 (2.1.1) in order to focus on some specific issues idenitied in preliminary and interim reports by contracting organizations.
* Following mission on seismic safety is planned in Q2/ 2017.

Achievements:* Theprovision of initial design nasis data for BNPP-2 hes been pursued by contacting parties (NPPD and ZAO ASE) within theframework of “Engineering Survey” contract during 2015
* The IAEA Specific Safety Guide SSG-9 has been adopted for seismic hazard evaluation of BNPP-2
* The Iranian consultant prepared the preliminar and interim reports which were reviewed by Russian counterparts and some recommendations provided
* The report evaluated by IAEA, some recommendations provided to improve it.
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| Output 3: An increased number of trained staff and implemented improved project management to promote and support strong ownership(75%)Indicator(s): Bi-annual lists of trained staff and training/qualifying events aimed at Increasing the capacity, enhancement of owner's competencies and continuous improvement of project management system to promote and support strong ownership with focus onnuclear safety | ☐ Completed ◼ On schedule ☐ Delayed☐ Other (*specify*)[Provide explanation]……Planned and completed:* Support (WS) on knowledge and risk management during preconstuction and construction phase of PWR with focus on safety completed in Q2 2014 (3.2.1).
* Assistance (EM) on management of design basis information through life cycle of BNPP-2&3 completed in Q2 2016 (3.3.2)
* Assistance (EM)on corporate knowledge management for BNPP-2&3, was done inNov. 2015 (3.3.1)
* Assistance (EM) in reviewing selected/developed training materials will be performed on materials provided by the supplier of two new units in 2017 (3.1.1).
* Two Planned assistance (WS and SV) on nuclear material accounting and control during preoperational phases of the two new units in Bushehr are cancelled on the request by the counterpart (3.4.1 , 3.4.2) – all needed assistance provided for BNPP-1

Achievements:* The strategy and programme for NPPD KM have been evaluated positively. Some recommendation for improvement KM system submitted by IAEA.NPPD is incorporating IAEA suggestion in his own system such as a plan with focus on improvement the process on critical knowledge.
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| Output 4:Improved overall Human Resource Management (HRM) for the two new NPP units(60%)Indicator(s): Bi-annual report on the implementation of Workforce Plan aiming at Increased capacity and further strengthening the capabilities of the owner organization (NPPD) in improved overall Human Resource Management for new projects with focus on nuclear safety | ☐ Completed ◼ On schedule ☐ Delayed ☐ Other (*specify*)[Provide explanation]……     Planned and completed:* Group FSsTraining programme on BNPP-2&3 Project management team (20NPPD trainees) completed in August - September 2015 at International Construction Training Centre, ICTC in China (4.1.3).
* Group Fellowship Trainig on construction and commissioning management with focus on safety requirements is planned for Q4 2017(4.1.5).
* An additional requested assistance (EM)on comprehensive model for effective project management of two new NPP units, completed in November 2015(4.1.4).
* Planned assistance (EM) in evaluation of the developed Training Programmes and updating owners' training system for the two new PWR is postponed to 2017 (4.1.1 merged with 4.2.1).
* EM to assist in the review of the developed Project Management System for units 2 and 3 of the new project is planned for 2017.

Achievements:* Significant increase of Iranian senior engineers’ knowledge and competence for preparation of updated nuclear power programme in terms of all aspects related to pre-construction, construction management and PWR technology.
* 27 high level managers of the owner organization (NPPD) and relevant TSO with increased capacity and strengthened capabilities on effective project management for construction, infrastructure and supply chain related expertise of the BNPP-2&3 projects.
* On the basis of recommendations provided topics for additional assistance in 2017 are under consideration.
 | *Insert additional rows if more than 4 outputs* |
| Output 5. Increased capabilities in adherence to safety and quality requirements by local organizations participating in manufacturing and construction of two new NPPs(30%)Indicator(s):Draft plan for the "Enhancement of national participation in planning and implementation of the project for the two new NPP units in Bushehr, | 🞏 Completed ◼ On schedule ☐ Delayed ☐ Other (*specify*)[Provide explanation]……     Planned and completed:* Assistance (WS) on addressing safety and quality requirements in construction of new PWR units for compliance by participating local organizations is postponed for 2017 (5.1.1) after implementation of 4.1.3 in 2015

Achievements* Achievements to be expected in 2017.
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| Output 6. Increased public information and awareness (50%)Indicator(s):Final strategy Documents for owner(NPPD) and the draft plan for the "Establishment and implementation a public information and awareness programme" available for the endorsement of NPPD's authorities by Q4-2014 | ☐ Completed ◼ On schedule ☐ Delayed ☐ Other (*specify*)[Provide explanation]……     Planned and completed:* On the completion of the assistance (WS) on public information and awareness programmes” in Sept. 2014 (6.1.1), the requested additional follow-up assistance to review draft Stakeholder Involvement Plan is planned for 2017 (6.1.3).Additional assistance (SV) is also planned in 2017(6.1.4)

Achievements:* Finalization of NPPD’s Stakeholders Involvement Plan and establishment of Public Information and Awareness Centre are expected in 2017.
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| ***SECTION-3: EQUIPMENT & HUMAN RESOURCES*** |
| *Based on TC Input categories, rate overall contribution towards achievement of project Outputs of Procurement and Human Resources capacity building Activities implementedthus far* |
| Equipment (EQ)/ Sub-Contract (SC) | ◼ Not Applicable☐ Very Good 🞏Good☐ Fair ☐ Poor[Provide explanation]…… | *Select overall rating and provide explanation/ supporting background information deemed relevant to support rating**(e.g., Is the procured EQ on schedule as regards delivery/ custom clearance/ installation-commissioning/ utilization? If not, what is being done to overcome difficulties?**How did/ will the training received through FEs/ SVs support the establishment of new services? Are the trainees still employed?**How did/ will the technical guidance received during/after EMs help improve capabilities of the Counterpart Institute?* *Was/will the knowledge and experience gained by TC/ WS participants shared/ be shared among colleagues to enhance institutional performance? How was/ will this done/ be done?)* |
| Expert Missions (EM) | ☐ Not Applicable☐ Very Good ◼Good☐ Fair ☐ Poor[Provide explanation]……      |
| Fellowships (FE) | 🞏 Not Applicable☐ Very Good ■Good☐ Fair ☐ Poor[Provide explanation]……      |
| Scientific Visits (SV) | ◼ Not Applicable☐ Very Good ☐Good ☐ Fair ☐ Poor[Provide explanation]……      |
| National Training Courses (TC) | ◼ Not Applicable☐ Very Good ☐ Good ☐ Fair ☐ Poor[Provide explanation]……      |
| Meetings (MT)/ Workshops (WS) | ☐ Not Applicable☐ Very Good ◼Good☐ Fair ☐ Poor[Provide explanation]…… |
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| ***SECTION-4: COMMENT AND RECOMMENDATIONS BY CP*** |
| **Rating by CP**  | The project performance:☐ Very Good ■Good🞏 Fair ☐ Poor ☐ Very Poor[Provide explanation]……      | *Select rating based on experience thus far and provide explanation/ supporting background information deemed relevant to support rating* |
| The support received from the Agency: ☐ Very Good ◼Good☐ Fair ☐ Poor ☐ Very Poor[Provide explanation]……     we need more IAEA support in administrative issues and technical issues, some difficulties are such as;* Long duration of organizing the activities; for example conducting a scientific visit
* Difficulties with timely issuance of entry visa for NEX and IEX
* Involvement of some professional experts from western countries such as Spain, Germany ,…
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| **Lessons learned** |      Above mentioned issues. | *Highlight key factors of success / failure that can promote/ hinder the achievement of project outputs and may impactTC Programmedelivery* |
| **Recommendation(s) by CP to:** | ■PMO      As above.◼TO      ☐NLO/Government      ☐CP Management      ☐Other (specify)       | *Select addressee and provide recommendation(s) to be addressed* |
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| ***SECTION-5: OUTCOME PROGRESS:*** *(1st column prefilled)* |
| Outcome StatementTo establish effective project management processes during the design and construction of the two new pressurized water (PWR) nuclear power plant (NPP) units in Bushehr with emphasis on safety. | ☐ Achieved◼To be achieved as planned (on schedule)☐ Delayed☐Other (*specify*)[Provide explanation]……     Considering above mentioned issues and with accomplishment of planned activties in 2017 as the last year of the project, it is expected to achieve a good progress in project stated objectives. | *Select status and provide explanation/ supporting background information (e.g.,based on the outcome indicator and its target value, to what extent the outcome is being achieved? Is there any deviation from expectations? Why?)* |
| Outcome Indicator (s)A comprehensive set of project management processes during design and construction phases of the two new PWR NPP units in Bushehr |
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| ***SECTION-6: CLEARANCE BY NLO*** |
| **Clearance by NLO** | Date:      | *Day, Month and Year* |
| Remarks:      | *Provide any additional remark deemed relevant* |
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***SECTION-7: FEEDBACK BY IAEAON THE REPORT*** |
| **Comments by TO(s)** | ☐ Very Good ☐ Good ☐ Fair ☐ Poor ☐ Very Poor[Provide explanation]……      | *Rating and feedback from TO(s)****on the report*** |
| **Comments by PMO** | ☐ Very Good ☐ Good ☐ Fair ☐ Poor ☐ Very Poor[Provide explanation]……      | *Rating and feedback from PMO(s)* ***on the report*** |
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1**CP**: Counterpart 2 **NLO**: National Liaison Officer

3**PMO**: Programme Management Officer 4**TO**: Technical Officer