

# EINRIP: CONTRACTORS BRIEFING

## Environmental and Social Safeguards

- **MAIN CONTENTS OF THIS PRESENTATION**
  - **General Introduction and Context;**
  - **Description of Environmental Safeguards; (Section 1.17 of General Specifications)**
  - **Description of Environmental Monitoring and Mitigation Plan (EMMP);**
  - **Conclusions;**

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## Environmental and Social Safeguards

- **GENERAL INTRODUCTION AND CONTEXT**

- This presentation will show to all (but particularly the contractor) the general approach adopted in EINRIP for environmental management;
- It will define what Environmental Management activities the bidders should consider when preparing their bids;
- EINRIP wants to stress that the Environmental management activities will be enforced and implemented during the construction period;
- The presentation will not, because of time constraints, be able to go through every individual clause and sub clause and every detail of the EMMP: copies are distributed to all participants.

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- Contractors need to know: EINRIP is different to other national road programs:
  - It includes significant carriageway widening and ROW widening, and therefore significant Land Acquisition;
  - Most important for contractors it includes a program of Environmental Management at all stages, and specifically at the Construction Stage;

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- **PRINCIPLES of Overall Env. Management Approach:**
  - That the planning, design and implementation of each stage of project preparation should cause minimal impact on natural and built environment;
  - E & SS sets out the overall requirements throughout project preparation cycle;
  - Includes strong Env Management emphasis during preparation: UKL/UPL, Amdal, Simplified LARAP & LARAP prepared or being prepared;
  - Environmental management during construction stage is part of overall environmental program as defined in E & SS;
  - Environmental Management during construction will be:
    - simple yet comprehensive:
    - enforceable

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- **Contractors Environmental responsibilities:**
  - Implement good environmental management techniques to ensure minimal adverse environmental and social impact on the local environment and community;
  - Environment should be seen as part of normal contractors responsibility, and normal good construction management;

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- So how does the contractor undertake his environmental duties, and what does he need to do?
  - The Contractor must be aware, and must act in accordance with the Environmental Safeguards (Section 1.17 of General Specifications);
  - The Contractor must complete and submit a monthly Environmental Management & Monitoring Plan (EMMP); (Note: This will form part of the Contractors Work Plan: see Mobilization Section 1.2.2.1)

These are explained in the following slides.

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- **DESCRIPTION OF ENVIRONMENTAL SAFEGUARDS** (Section 1.17 of General Specifications):
  - More comprehensive than in previous projects;
  - Safeguards based on some existing requirements from other sections, plus some additional ‘environmental’ requirements;
  - Contractors responsibility to take all reasonable steps to protect the environment and limit damage and disturbance to people, property and the environment during construction;
  - Should be seen as a ‘good neighbor’ policy: ensuring minimal disturbance to the local community and local and wider community;

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- The Environmental Safeguards focus on good environmental practice:
  - In the sourcing and transportation of construction materials;
  - In all the construction activities;
  - In the disposal of all waste materials and liquids;
  - In the operation of all subsidiary uses: AMP, base camp etc.

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- Main clauses included in Section 1.17 Environmental Safeguards
  - **GENERAL**
  - **IMPACT ON WATER AND WATER RESOURCES**
  - **IMPACT ON AIR QUALITY**
  - **IMPACT ON NOISE**
  - **IMPACT ON TRAFFIC, ADJOINING PROPERTIES AND UTILITIES**
  - **HUMAN HEALTH AND SAFETY**
  - **IMPACT ON FLORA AND FAUNA**
  - **IMPACT ON SOIL**
  - **DISPOSAL OF WASTE**
  - **CULTURAL HERITAGE**
  - **OTHER MATTERS**
  - **RESPONSIBILITIES IN CONNECTION WITH AMDAL AND UKL/UPL**

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- Clause summary:
  - 1.17.1 General;
    - General section to ensure environment is protected;
    - Refers to need for EMMP (This will form part of the Contractors Work Plan: see Mobilization Section 1.2.2.1);
    - Work confined to normal hours of operation;
  - 1.17.2.1 Impact on Water Resources;
    - Restrict pollution of water courses and sources;
    - Work does not impact drainage and water channels;
    - Ensure no flooding;
    - Immediate clean up of pollution;

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- Clause summary:
  - 1.17.2.2 Impacts on air quality;
    - Emissions from equipment/vehicles minimized;
    - AMP properly managed and located;
    - Trucks covered;
  - 1.17.2.3 Impacts on noise;
    - Noise from equipment/vehicles minimized;

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- Clause summary:
  - 1.17.2.4 Traffic, access and utilities (See also Section 1.8);
    - Proper traffic management to keep traffic moving;
    - Responsible for obtaining data on utilities and approval for diversion;
    - Access to all houses etc maintained ;
    - Temporary access if necessary;
  - 1.17.2.5 Health and Safety (See also Conditions of Contract);
    - Must comply with all safety requirements;
    - Accidents must be reported;
    - All machinery must be protected;
    - Proper sanitary facilities at base camp, AMP, etc;
    - AIDS awareness and training covered in GC of Contract

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- Clause summary:
  - 1.17.2.6 Flora and Fauna;
    - Cutting of trees restricted and replacement by 2 new trees;
    - Special control in National Park;
  - 1.17.2.7 Impacts on Soil;
    - Restrict soil pollution;
    - Avoid land slides;

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- Clause summary:
  - 1.17.2.8 Disposal of Waste;
    - Disposal of waste must be in accordance with regulations;
    - Disposal of waste must be on approved sites;
  - 1.17.2.9 Cultural Heritage:
    - Fossils (see also 4.24 GC);
  - 1.17.2.10 Other Matters:
    - Quarry and haul routes: must be acceptable to Engineer and Pemda;
    - Base camp must not disturb local community;
    - Only legal timber to be used;
    - Reinstatement to original condition;

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- Clause summary:
  - 1.17.3/1.17.4 Other matters;
    - Must comply with UKL/UPL, AMDAL;
    - Must prepare EMMP;
  - 1.17.5 Basis for Payment:
    - No special payments; except for tree planting;
    - If contractor fails to do work, Engineer can do and charge contractor.

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- Please see handout for detailed description of clauses: Important to remember:
  - The contractor will need to monitor activities connected with each of the sub clauses (described later in EMMP);
  - These clauses must be considered during the Contractors Bid Preparation: that is why we are socializing them now;
  - All are ‘good housekeeping’ activities and pay items are not included, except for replacement tree planting;

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- **DESCRIPTION OF ENVIRONMENTAL MONITORING AND MITIGATION PLAN (EMMP)**
  - In accordance with Section 1.17 Environmental Safeguards Clause 1.17.1.1 (d) *'... the Contractor shall complete columns 2 and 3 of the EMMP prior to the Pre-Construction meeting.*
  - The EMMP shall cover all aspects of the construction activities on all sites controlled by the Contractor.
  - The Engineer will complete columns 4, 5,6,7 on a monthly basis.

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- **EMMP must:**
  - Identify:
    - the adverse environmental activities or environmental omission,
    - provide details of those activities and omissions,
    - activities carried out to rectify or remedy that omission,
    - details of reporting to the Engineer.
  - A recommended format of the Environmental Management and Monitoring (EMMP) is available at this Briefing and will also be available from Bina Marga.

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- EMMP: For each Clause (from Section 1.17) the following sections to be completed:
  - **C2. OVERALL TARGET for the ACTIVITY:** *To be prepared by the Contractor;*
  - **C3. POTENTIAL LOCATION OF MONITORING:** Worksite, AMP etc, Base Camp, Haul Routes, Quarry, Other outside. *To be prepared by Contractor;*
  - **C4. DEFINE MONITORING ACTIVITIES:** define site visits, surveys, measurements etc. *To be prepared by the Engineer;*
  - **C5. DEFINE ENVIRONMENTAL ISSUE:** Description of environmental activities or environmental failures that have occurred in connection with the sub clause. *To be prepared by the Engineer;;*
  - **C6. ACTIVITY CARRIED OUT TO RECTIFY ENVIRONMENTAL ISSUES:** Description of activity that has been carried out to ensure rectification of issue. *To be prepared by the Engineer;*

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- The EMMP will need to be reviewed and signed by the Contractors representative and by the RSC Engineer.
- Recommended that a combined site visit be carried out with the contractor and RSC Engineer on a monthly basis to ensure acceptable completion of EMMP.

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- **CONCLUSIONS;**

- Bina Marga and AusAID are committed to ensuring the highest quality of Environmental Management in EINRIP through;
  - the strengthened Environmental Safeguards section (1.17);
  - the preparation of the Environmental Management and Monitoring Plan (EMMP);
  - And through the environmental focus of the PMSC and RSC who can provide guidance and assistance to the Contractor in Environmental Matters;
  - BUT the essential element to ensure a high standard of environmental management is the support and commitment of the Contractor and his staff. It is in the interest of the contractors to employ the best environmental management techniques;

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- Effective Environmental management will be supported by the management and supervision consultants;
- **PMSC** (Project management support consultants) and **RSC** (Regional supervision consultants) will include Indonesian and International Environmental staff to support, guide and advise during the construction period. They will support the contractors in their environmental and social responsibilities.

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- Costs of good environmental management;
  - The costs of good management are no more than the costs of bad management. To dispose of waste material in an official site is no more than disposing on an illegal site or on adjacent waste land;
  - To ensure vehicles and equipment are well maintained and regularly serviced will lower costs in the long term: increase in efficiency and reduction in fuel costs as well as reducing noise and air pollution;
  - Many other examples;

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## Environmental and Social Safeguards

- Land ownership, community information;
  - When the contractors start on site, all land will be acquired;
  - However contractors need to act responsibly in connection with land: they should respect the rights of all adjacent land and building owners and not enter without permission;
  - The local community must be kept informed of the progress of construction; it is contractors responsibility to keep the community informed through the agreed formal channels of communication;

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- **FINALLY**
  - The contractor, as the key stakeholder, during the construction period must ensure the highest quality of environmental management during the construction period;
  - The contractor must follow Section 1.17, must prepare EMMP, and most important must be committed to good environmental management and must act responsibly.

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## Environmental and Social Safeguards

THANK YOU