

# **Jharkhand State Livelihood Promotion Society**

(Under the aegis of Rural Development Department, Govt. of Jharkhand)

3<sup>rd</sup> Floor, Shantideep Tower, Radium Road, Ranchi-834001

Phone No. 0651-2360142/2360038

Email – [jslps.ranchi@gmail.com](mailto:jslps.ranchi@gmail.com), Website – [www.jslps.org](http://www.jslps.org)

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No: 3530/Ranchi

Dated: 02/02/2017

## **REQUEST FOR EXPRESSION OF INTEREST FOR CONSULTANCY SERVICES FOR “IRRIGATION” UNDER JOHAR**

The Jharkhand State Livelihood Promotion Society invites “Expression of Interest” from the eligible registered consultancy agencies to submit their interest for providing consulting services for World Bank funded JOHAR Project for implementation the “**Irrigation**” activities in Jharkhand.

Interested agencies may submit their "Expression of Interest" in a sealed envelope clearly superscripted as Expression of Interest for “**Consultancy services for implementation of Irrigation for JOHAR**” latest by 15.30 hours on **20<sup>th</sup> February’2017**. The agencies may obtain further information and procedures for submitting the “Expression of Interest” from the official website of JSLPS i.e. [www.jslps.org](http://www.jslps.org).

**Sd/  
Chief Executive Officer**

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**No: 3530/Ranchi**

**Dated: 02 /02/2017**

**REQUEST FOR EXPRESSIONS OF INTEREST FOR HIRING OF CONSULTANCY AGENCIES FOR PROVIDING TECHNICAL SERVICES ON “IRRIGATION ACTIVITIES” REQUIRED FOR JOHAR PROJECT IN JHARKHAND.**

**(CONSULTING SERVICES – FIRM SELECTION)**

**Ranchi, Jharkhand, India  
JOHAR**

**Assignment Title:** Hiring of Consultancy Services for Implementation of Irrigation activities in JOHAR operation areas.

**Ref. No: JH/CS/02/2016-17**

The project titled **Jharkhand Opportunities for Harnessing Rural Growth (JOHAR)** implementing through Jharkhand State Livelihood Promotion Society functioning under Rural Development Department, Govt. of Jharkhand financing from the World Bank toward the cost of implementation of the Project and intends to apply part of the proceeds for consulting services.

The consulting services (“the Services”) include hiring of irrigation activities for JOHAR for a period of three years subject to extension of further period or till end of the project based on the requirement and performance. The details activities are mentioned in the Terms of Reference.

Jharkhand State Livelihood Promotion Society (JSLPS), now invites eligible consulting firms (“Consultants”) to indicate their interest for providing the services. Interested Consultants should provide information demonstrating that they have the required qualifications and relevant experience to perform the services.

The short-listing criteria are as follows.

- a) The agency should have an independent legal existence, registered under the applicable Act. [Submit proof of Registration Certificate, Articles and Memorandum of Association].
- b) The agency should have prior experience & expertise in designing and implementing irrigational activities in large scale in Government Sectors or any other externally aided projects.
- c) The agency should have minimum 5 years of experience in designing and implementing or similar assignments.

- d) The Agency should have an annual average turnover of minimum Rs. 5.00 crore or more during last three financial years and preferably a positive net worth. Out of the total turnover, at least Rs. 1.00 crore should be from irrigation assignments only [Relevant documents viz, audited financial statements and a certificate from Chartered Accountant in support of satisfying the criteria should be submitted].
- e) Experience at least in 2 similar natures of assignments in areas specific to the proposed assignment undertaken. Experience in government sector/externally aided projects/livelihood sector may be preferred.
- f) The agency should have a well-qualified and sufficiently experienced faculty, in house or should be in a position to commit about their own network/association.

Interested firms may submit their application expressing interest in the prescribed Performa annexed herewith [Annexure A] in sealed envelope with each page of the application signed by an authorised signatory, including the pages comprising the annexure.

The activities have been divided in to three clusters as placed at Annexure-1 and the agency may submit separate Expression of Interest for each Cluster. Further, the agency is free to submit their expression of interest for all the clusters or as any one of the cluster as per their choice. Further, the agency selected for one cluster, their proposal may not be taken into consideration for other clusters.

The attention of interested Consultants is drawn to paragraph 1.9 of the World Bank's [Guidelines: Selection and Employment of Consultants under IBRD Loans and IDA Credits & Grants by World Bank Borrowers](#) (January 2011 revised July 2014) ("Consultant Guidelines"), setting forth the World Bank's policy on conflict of interest. In addition, please refer to the following specific information on conflict of interest related to this assignment: conflict between consulting activities and procurement of goods, works or non-consulting services; conflict among consulting assignments; and relationship with Borrower's staff.

Consultants may associate with other firms in the form of a joint venture or a sub consultancy to enhance their qualifications. The submission should clearly indicate the type of association whether a JV or sub consultancy

A Consultant will be selected in accordance with the Quality & Cost Based Selection (QCBS) method set out in the Consultant Guidelines.

Expressions of interest must be delivered in a written form to the address below by person or through postal/courier services latest by 15.30 hours of **20<sup>th</sup> February, 2017** by super-scribing as "Request for Expression of Interest for Irrigation for Cluster .... (1,2 or 3) at the following address.

**Address:**

The Chief Executive Officer,  
Jharkhand State Livelihoods Promotion Society  
3<sup>rd</sup> Floor, Shantideep Tower, Off. Hotel Maharaja,  
Radium Road, Ranchi-834001  
Phone No. 0651-2360142/2360038

**Annexure-A**

**Attachment 1: Format for Submission of Information to JSLPS, Ranchi to provide consultancy services for undertaking irrigation activities under JOHAR project.**

**Submission Requirements**

<b>A - Consultant's Company Profile [Maximum 2 Pages]</b>																									
1.	Organizational	<p><i>Provide a brief description of the background and organization of your firm/entity. The brief description should include:</i></p> <ul style="list-style-type: none"> <li>• <i>Ownership details</i></li> <li>• <i>Date and place of incorporation of the firm,</i></li> <li>• <i>Objectives of the firm,</i></li> <li>• <i>Availability of appropriate skills among staff.</i></li> </ul>																							
2.	Financial: (Minimum average annual Turnover of at least Rs. 5.00 Crore during last three financial years required.	<p><i>Provide the turnover of the on the basis of the audited accounts of the previous three financial <b>years in Indian Rupees.</b></i></p> <table border="1" style="width: 100%; text-align: center;"> <tr> <td style="width: 33%;">2013-14</td> <td style="width: 33%;">2014-15</td> <td style="width: 33%;">2015-16</td> </tr> <tr> <td> </td> <td> </td> <td> </td> </tr> </table>				2013-14	2014-15	2015-16																	
2013-14	2014-15	2015-16																							
<b>B - Consultant's Experience [Maximum 15-20 pages]</b>																									
1.	<p>Experience of working in Government or any other externally funded agencies in India. <b>At least 3 years' experience required.</b> <b>Please provide details of up to 10 such assignments (you may add more rows).</b></p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 15%;">Name of Project</th> <th style="width: 25%;">Services provided</th> <th style="width: 15%;">Client and Country</th> <th style="width: 15%;">Duration of Assignment</th> <th style="width: 30%;">Value of Contract (in INR)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					Name of Project	Services provided	Client and Country	Duration of Assignment	Value of Contract (in INR)															
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2.	<p>Experience in Monitoring &amp; Evaluation work in India. <b>At least 2 projects' experience required.</b> <b>Please provide details of up to 10 such assignments (you may add more rows)</b></p> <table border="1" style="width: 100%; text-align: center;"> <thead> <tr> <th style="width: 15%;">Name of the Client (Gov/Externally Aided Project)</th> <th style="width: 25%;">Nature of the assignment (Monitoring &amp; Evaluation or similar assignments )</th> <th style="width: 20%;">Location and coverage (entire state, country, etc.)</th> <th style="width: 15%;">Duration of Assignment (In month)</th> <th style="width: 25%;">Value of Contract (Rs. In Lakh)</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>					Name of the Client (Gov/Externally Aided Project)	Nature of the assignment (Monitoring & Evaluation or similar assignments )	Location and coverage (entire state, country, etc.)	Duration of Assignment (In month)	Value of Contract (Rs. In Lakh)															
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	Please enclosed copy of the contract as evidence				
3.	Two Experts to be proposed with experience Development Sector or Externally Aided Project in the areas of design and implementation of irrigation activities or similar nature of works at-least for a period of 3 years. Detailed CVs are not required at REOI stage, which will be submitted if the agency qualify for RfP stage.  Among other information, the brief CVs should include the following information in the following format:				
	Name of the proposed Expert				
	Designation				
	Experience of 3 years in Development Sectors or any externally aided projects				
	Name of Project	Design and implementation of Irrigation Projects similar type of works experience.	Client and State	Duration of Assignments (In month)	

If the Consultant has formed a consortium, all the above details of each member of the consortium and the name of the lead partner, shall be provided.

**NB: Proposal should be submitted separately for each clusters as per the Choice**

**Annexure –A (1)**  
**Declaration**

Date:...../02/2017

**To whom so ever it may be concern**

I/We hereby solemnly take oath that I/We am/are authorized signatory in the firms/ Agency/ Institute/ Company and hereby declare that "Our firms/ Agency/ Institute/ Company do not face any sanction or any pending disciplinary action from any authority against our firms/ Agency/ Institute/ Company or partners." Further, it is also certified that our firm has not been blacklisted by any government or any other donor/partner organization in past.

In case of any further changes which effect of this declaration at a later date; we would inform the JSLPS accordingly.

Authorized Signatory  
(with seal)

**Draft Terms of Reference (ToR) for Hiring of Technical Service Consultant for implementation of irrigation component under JOHAR Project of Jharkhand.**

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**A) BACKGROUND:**

The **Jharkhand Opportunities for Harnessing Rural Growth Project (JOHAR)** is being implanted in Jharkhand by the Jharkhand State Livelihoods Promotion Society (JSLPS) under the aegis of the Department of Rural Development, Government of Jharkhand (GoJ). The project is co-funded by the World Bank along with the GoJ. The project duration is for 6 years starting from 2017-18. The project is expected to cover 225,000 poor households spread over 19 districts and 81 blocks in the state.

**B) OBJECTIVES:**

- 1) The Project Development Objective (PDO) *is enhanced and diversified household income in select farm and non-farm sectors for targeted beneficiaries in project areas.*
- 2) The JOHAR project envisages doubling the income of selected producer households having current and potential marketable surpluses by shifting them to more efficient, productive and climate resilient technologies in focus value chains through investments in technology, infrastructure and capacity building. The sources of investments include project support, state program convergence, partnership with the private sector and community contribution.
- 3) Project interventions will be focused on the sub-sectors of High Value Agriculture, livestock (small animals), NTFP, fisheries and irrigation. Although the project will work across these five sub-sectors, the typology of the interventions reaching each geographic cluster (10-15 villages in a block) of households will be limited to pre-determined primary and secondary sub-sectors.
- 4) The components of the project are:
  - (a) **Component 1 - Diversified and resilient production and value addition:** This will involve support for community institution development and support to the five sub-sectors of High Value Agriculture, livestock, NTFP, fisheries and irrigation.
  - (b) **Component 2 - Promoting Market Access, Skill Development and Pro-poor Finance:** This will involve support for promoting market access and private sector participation; fostering skill development relevant to the focus value chains; and, facilitating the development of pro-poor agricultural finance systems.
  - (c) **Component 3 - Project Management:** This will involve support for project and knowledge management.
- 5) This assignment is related to providing services for design and implementation of small irrigation systems in villages where High Value Agriculture will be taken up in the project. These irrigation systems will not only enable extending the cropping

season to rabi and late rabi, but would also provide critical life-saving irrigation to HVA farmers during kharif as well.

### C) OBJECTIVE OF THE ASSIGNMENT:

- 1) The objective of the assignment is to provide services for **design of small irrigation systems**<sup>1</sup>, **supervision during implementation** of these systems by community institutions, **training to a cadre of para-irrigation engineers** for designing similar systems and **training to a cadre**<sup>2</sup> of operators for these systems.
- 2) The assignment expects the selected Technical Service Agency (TSA) to not only design and supervise implementation of irrigation systems but also simultaneously train a cadre of para-irrigation engineers who can themselves independently design similar systems and supervise their implementation during and beyond the tenure of the project. Thus, the larger aim of the assignment is to create a cadre of para-irrigation engineers who will serve the community in the project area.
- 3) An important aspect in enabling para-irrigation engineers to operate independently is to standardise the design process, design parameters, structures to be built (intake, pumphouse, dug well, source protection structures etc.), equipments, their specifications, etc., for a given set of topography, water source and command area to be served.

### D) SCOPE OF THE ASSIGNMENT

- 1) Irrigation is to be created in 42 blocks spread over 19 districts over a period of 3 years. Annexure -I provides details of year-wise phasing of the blocks with targeted farmers. TSA having work experience in executing similar kind of work at-least for 5 years will be given preference. The blocks are classified geographically into three clusters and the project seeks to have one TSA exclusively for each cluster to provide suitable irrigation structure to cater the need of the farmer in respective village/block. See **Annex** for details of clusters of blocks and phasing in clusters.
- 2) All irrigation schemes created under this assignment will be group irrigation schemes and will be owned by the related Producer Group and operated by the relevant Water User Group<sup>3</sup>. Broadly the project is expecting to have two types of irrigation projects:

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<sup>1</sup> Typically these will cover 10-30 acres with 10-50 farmers

<sup>2</sup> Cadre of para-irrigation engineers and cadre of operators will be identified by the project. The TSA will provide the technical training

<sup>3</sup> It is envisaged that the irrigation schemes created in the project will primarily serve HVA command areas and HVA farmers, who will all be members of the Producer Group in the village created under JOHAR. However, where there is water availability and where it is technically feasible, the scheme may provide irrigation to plots that are not-HVA plots. Therefore, while the Producer Group (HVA farmers) will be the owners of the irrigation schemes, the users may include other farmers as well and therefore, the Water Users Groups will consist of both HVA farmers and non-HVA farmers.

Sl. No.	Type of System	Description
1	Gravity/diversion based irrigation system	Diverting hill streams and directing the flow through a network of pipes to plots in the command area.
2	Lift irrigation system	Source of water could be rivers, streams or dug wells (near or in drainage lines).  Source of pumping power could be in order of priority: <ul style="list-style-type: none"> <li>• Electricity</li> <li>• Diesel</li> <li>• Solar PV</li> </ul>

- 3) Where it is technically feasible (where source of water is available in sufficient quantities at least for 9-10 months in a year), Gravity/Diversion based irrigation would be preferred over lift irrigation schemes given its lower capex and opex as compared to lift irrigation scheme serving a similar command area.
- 4) Within, lift irrigation schemes, electric pumps would be the first choice where electricity is available. Solar PV will be taken up subject to funding becoming available through convergence.

#### E) DESIGN OF IRRIGATION SYSTEM:

- 1) **Assess & Finalize Water Sources:** For each project village, based on a participatory planning process, the project will provide the TSA with a sketch showing farmer-wise, location of plots in the command area and potential water sources<sup>4</sup>. The TSA will assess the adequacy and suitability of the shortlisted water sources vis-a-vis the command areas to be irrigated and select a or a set of sources. Based on this step, the TSA will decide on the type of scheme namely, gravity/diversion based irrigation or lift irrigation system, with the first priority being gravity based system.
- 2) **Assess Static Head (Suction & Delivery Head)** through a technical field survey and estimate dynamic head such that there is adequate discharge (minimum 8 liters per second) at desired pressure (minimum 2.5kg/cm<sup>2</sup>) at the tail end of the distribution network.
- 3) **Prepare Detailed Design** based on the field survey giving details of the following (including but not limited to<sup>5</sup>):

<sup>4</sup> These could be existing sources such as streams, rivers, wells etc., or new sources to be created such as open wells, etc.

<sup>5</sup> Points listed here are broadly for lift irrigation schemes. Similarly appropriate details would be needed for Gravity/diversion based systems.

- a) Location and design of intake structure
  - b) Location and design of pumphouse
  - c) Pump type (electric, diesel or SPV) and specifications including GSM-based starter, electrical connections to the nearest transformer, etc.
  - d) Conveyance and distribution network upto the plot level of all the plots in the command area. Alignment of pipe network.
  - e) Control mechanism for distribution management
- 4) **Prepare Detailed Project Report:** This draft plan along with a draft cost estimate will be discussed with the Producer Group/VO before a final draft of the DPR is prepared by the TSA. The DPR will contain (but not limited to this) the following:
- a) Detailed design drawings, including geo-coordinates
  - b) Specifications of equipments to be procured along with bill of materials
  - c) Work plan for executing the irrigation scheme along with stage wise equipment and bill of materials
  - d) Detailed cost estimates including material, labour and equipment and fees (electric connection fee, etc.) if any to be paid
  - e) Operations and maintenance plan, which will include:
    - i. Irrigation scheduling based on season and crop
    - ii. Estimate of user charges to be collected and amount to be set aside for maintenance and repairs
    - iii. Record keeping for the usage of the system (GSM-starter will also provide information on usage) by the WUG and the PG
    - iv. Routine maintenance schedule
- 5) **Supervision of the Implementation of the irrigation scheme:** Draft DPR accepted by the PG/VO will be forwarded to the -Irrigation at the state level for final approval of the scheme. The PG/VO will execute the scheme as per the design provided in the DPR by hiring necessary personnel, purchasing necessary materials and seeking necessary permissions.
- 6) The TSA will provide engineering supervision during implementation to ensure that it matches with the design approved and equipment is as per specifications. It will cover (but not limited to):
- a) Procurement of equipment and materials to ensure that it matches with the specifications in terms of dimensions, material and quality.
  - b) Ground marking of all key civil constructions such as intake well, pumphouse, etc., to lay the foundation
  - c) Alignment of conveyance and distribution networks and marking for trenching ensuring correct gradient and depth of trench, etc.
  - d) Ensuring that concrete mix used in civil works is as per recommended ratios, pipes are joined using recommended materials and methods, etc.

- 7) The TSA will provide implementation supervision report from time to time (linked to stages mentioned in the work plan) to the project, based on which funds will be released to the PG/VO as per approved budget.

#### **F) TRAINING OF CADRE:**

- 1) **Cadre of Para-irrigation Engineers:** JOHAR will provide the TSA will a shortlist of candidates that are suitable for being trained and deployed as para-irrigation engineers. The TSA will design a detailed training module along with a suite of technical tools for building the capacity of the cadre to design the irrigation scheme, prepare DPRs, provide technical supervision during procurement and implementation and training of operators in routine operations and maintenance. A key element in doing this is to standardise the design process, design parameters, equipments and their specifications, etc., as well as create structured tools (mobile apps-based tools) to aid the para-irrigation engineers. Similarly for supervision a mobile app based check-list should be prepared.
- 2) The TSA will start the assignment with training of this cadre and select para-irrigation engineers based on a test after the training. These selected para-irrigation engineers will be deployed and paid for by the TSA during the design, preparation of DPR, supervision during implementation and training of operators.
- 3) During the first 2 years, the para-irrigation engineers will work under the direct supervision of the TSA. In the 3<sup>rd</sup> year, they will be allowed to independently (using the mobile apps) design and prepare DPRs, which will be reviewed by the TSA before they are finalized as described in **para 18**. Similarly, they will be allowed to supervise procurement and implementation with handholding support from the TSA. At the end of 3 years, the TSA will evaluate the performance of the para-irrigation engineers and recommend a final list to JOHAR for further use in the project.
- 4) **Cadre of Operators:** every irrigation scheme will have 2 operators who will not only operate the scheme but also carry out routine maintenance and repair. The TSA will prepare a training module and impart training to a cadre of operators that the project will identify from among the community.

#### **G) DURATION OF THE ASSIGNMENT**

The total duration of the assignment is 38 months from the time of signing the contract including 3 months time for mobilizing the team, preparing the training tools, technical mobile-based apps and carrying out training of cadre of para-irrigation engineers. The contract may be extended for further periods based on performance and requirement of the project.

## H) KEY DELIVERABLES

The TSA will deliver the following:

- a) Training manual for para-irrigation engineers along with mobile-app based technical tools<sup>6</sup>
- b) Training manual for operators
- c) Training to cadre of para-irrigation engineers and operators and final list of recommended candidates for use in the 3<sup>rd</sup> year and beyond.
- d) DPR of irrigation schemes for project villages
- e) Implementation supervision report from time to time

## I) SUPPORT FROM THE JOHAR PROJECT

The JOHAR project will provide the following support to the service provider:

- a) List of villages where irrigation schemes are to be installed along with sketch showing command area and potential water sources
- b) A shortlist of potential candidates for training as para-irrigation engineers
- c) Facilities for organizing training programmes, including rental cost of premises, equipment, food, etc.,
- d) Coordinate with local government departments where necessary to secure permissions, facilities, etc., for installing irrigation schemes.
- e) Coordinate with community institutions (PG, VO) for facilitating interactions with the TSA. Each village will have an Aajeevika Krishi Mitra and cluster of 8-10 villages will have a Sr.AKM who will work with the community to help the TSA. In addition, each cluster will have a Cluster Coordinator from the project who will supervise the Sr.AKMs and the AKMs.
- f) The TSA will work under the overall supervision of the SPC-Irrigation.

## J) TEAM COMPOSITION AND QUALIFICATION

The service provider will deploy the following staff:

Position	Number of staff	Qualifications & Experience	Location	Persons month
Team leader (Technical, overall responsible for assignment and specifically for the training modules and technical tools and mobile-based app)	1 (part time)	BE/B.Tech with 10 years or Diploma in Engineering with 15 years experience in design, installation, commissioning and technical supervision of irrigation projects, especially small-scale group irrigation projects.  Knowledge of Hindi is	Not relevant, but must provide at least 15 days/month during design phase (4 months in a year) at Ranchi and travel to sites. During implementation phase at least 5 days/month.	10

<sup>6</sup> The training manual and suite of technical tools should be delivered at the beginning of the assignment. The mobile-based app should be developed and delivered at the end of the first year and used in the subsequent years.

		preferable		
Irrigation Engineer (Training of para-irrigation engineers and operators; field survey, preparation of DPR, implementation supervision)	1 full time staff every year for every 100 schemes	BE/BTech with 5 years or Diploma in Engineering with 10 years experience in design, installation, commissioning and technical supervision of irrigation projects, especially small-scale group irrigation projects.  Knowledge of Hindi is essential	Must be stationed in respective blocks or groups of blocks as may be determined mutually at the time of deployment	36

**K) REVIEW MECHANISM:**

The work will be reviewed on quarterly basis based on the target and if any shortcomings notices, that will be rectified during the next quarters. If the performance will not improve for 3 consecutive quarters, the service may be terminated.

**L) REPORTING:**

The agency will report to the State Head looking after the irrigation components and work closely with him/her to deliver the task.

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## Annexure: -I

## Cluster-wise, block-wise, year-wise phasing of Irrigation Schemes

	District	SI	Block	Year-wise Phasing of HVA Household Coverage			Total HVA Members	No. of Villages to be covered @ 60 HVA farmers/village	Year-wise Phasing of Schemes @ 1 scheme/HVA village			Total Schemes	
				PY1	PY2	PY3			PY1	PY2	PY3		
Cluster 1 14 Blocks	Ranchi	1	Angara		3,476	1,738	47	5214	87	0	58	29	87
	Ranchi	2	Bero	3,577			47	3577	60	60	0	0	60
	Ranchi	3	Bundu	3,577			47	3577	60	60	0	0	60
	Ranchi	4	Burmu		3,476	1,738	47	5214	87	0	58	29	87
	Ranchi	5	Kanke	3,577			47	3577	60	60	0	0	60
	Ranchi	6	Namkum		3,476	1,738	47	5214	87	0	58	29	87
	Ranchi	7	Rahe		3,476	1,738	47	5214	87	0	58	29	87
	Ranchi	8	Ratu		3,476	1,738	47	5214	87	0	58	29	87
	Ranchi	9	Silli		3,476	1,738	47	5214	87	0	58	29	87
	Ranchi	10	Sonahatu		3,476	1,738	47	5214	87	0	58	29	87
	Khunti	11	Arki			1,263	47	1263	21	0	0	21	21
	Khunti	12	Murhu	3,577			47	3577	60	60	0	0	60
	Khunti	13	Rania	3,577			47	3577	60	60	0	0	60
	Khunti	14	Torpa	3,577			47	3577	60	60	0	0	60
	<b>Total</b>			<b>21462</b>	<b>24332</b>	<b>13429</b>	<b>658</b>	<b>59223</b>	<b>987</b>	<b>358</b>	<b>406</b>	<b>224</b>	<b>987</b>
Cluster 2 13 Blocks	Bokaro	1	Chandankyari		3,476	1,738	47	5214	87	0	58	29	87
	Hazaribagh	2	Churchu	3,577			47	3577	60	60	0	0	60
	Ramgarh	3	Dulmi			1,263	47	1263	21	0	0	21	21
	Ramgarh	4	Gola	3,577			47	3577	60	60	0	0	60
	Bokaro	5	Gumia			1,263	47	1263	21	0	0	21	21
	Bokaro	6	Jaridih			1,263	47	1263	21	0	0	21	21
	Bokaro	7	Kasmar		3,476	1,738	47	5214	87	0	58	29	87
	Lohardaga	8	Kuru	3,577			47	3577	60	60	0	0	60
	Ramgarh	9	Mandu		3,476	1,738	47	5214	87	0	58	29	87
	Bokaro	10	Nawadih			1,263	47	1263	21	0	0	21	21
	Bokaro	11	Parerbar			1,263	47	1263	21	0	0	21	21
	Ramgarh	12	Pataratu			1,263	47	1263	21	0	0	21	21
	Ranchi	13	Silli		3,476	1,738	47	5214	87	0	58	29	87
	<b>Total</b>			<b>10731</b>	<b>13904</b>	<b>14530</b>	<b>611</b>	<b>39165</b>	<b>653</b>	<b>179</b>	<b>232</b>	<b>242</b>	<b>653</b>

<b>Cluster 3 15 Blocks</b>	Ranchi	1	Chanho	3577			47	3577	60	60	0	0	60
	Ranchi	2	Itki			1,263	47	1263	21	0	0	21	21
	Ranchi	3	Mandar			1,263	47	1263	21	0	0	21	21
	Ranchi	4	Nagri		3,476	1,738	47	5214	87	0	58	29	87
	Simdega	5	Bansjor			1,263	47	1263	21	0	0	21	21
	Gumla	6	Basia	3,577			47	3577	60	60	0	0	60
	W. Singhbhum	7	Chakradharpur	3,577			47	3577	60	60	0	0	60
	E. Singhbhum	8	Dhalbhumgarh	3,577			47	3577	60	60	0	0	60
	Gumla	9	Gumla	3,577			47	3577	60	60	0	0	60
	Gumla	10	Palkot	3,577			47	3577	60	60	0	0	60
	E. Singhbhum	11	Patamda		3,476	1,738	47	5214	87	0	58	29	87
	Gumla	12	Raidih	3,577			47	3577	60	60	0	0	60
	Saraikela Karsawan	13	Saraikela	3,577			47	3577	60	60	0	0	60
	Gumla	14	Sisai		3,476	1,738	47	5214	87	0	58	29	87
	Gumla	15	Verno	3,577			47	3577	60	60	0	0	60
	<b>Total</b>			<b>32193</b>	<b>10428</b>	<b>9003</b>	<b>705</b>	<b>51624</b>	<b>860</b>	<b>537</b>	<b>174</b>	<b>150</b>	<b>860</b>
	<b>Grand Total</b>			<b>64386</b>	<b>48664</b>	<b>36962</b>	<b>1974</b>	<b>150012</b>	<b>2500</b>	<b>1073</b>	<b>811</b>	<b>616</b>	<b>2500</b>

NB: This is an indicative ToR, which may be changed at the time of issue of RfP.