CLARIFICATION ON PRE BID QUERIES

TENDER NO. BCPL/DIB/C&P/2013/SER/20130128/AJD

SUBJECT: HIRING OF SERVICE FOR PRE-COMMISSIONING ASSISTANCE FOR BCPL

Sl No.	Queries during pre-bid meeting on 07.10.2013	BCPL Clarification/TO BE READ AS
1	Clause 14.2 of SCC: All the consumable materials as required shall be supplied by **BCPL.**	All the consumable materials as required shall be supplied by **Contractor.**
2	Scope of contractor towards Gas cutting, Welding of pipe etc	Scope of work for the following is attached as **ANNEXURE-B(9 PAGES) :** 1.Scope of work for Mechanical works 2. Scope of work for Operation/Process works 3. Scope of work for Supervisory work
3	Clause number 19 of SCC: Normal working hours will be from 8.30 A.M. to 5.00 P.M. a day with a break of half an hour for lunch. For pre-commissioning and commissioning works, services are required for 12 hrs working hours preferably 8.30 AM to 8.30 PM and 8.30 PM to 8.30 AM basis. The same personnel should not work for more than 12 hours a day. However working hours can be changed as per requirement of work as decided by EIC.	Normal working hours will be from 8.30 A.M. to 5.00 P.M in a day for general shift with a break of half an hour for lunch. Further, works will be carried out by contractor personnel on 8 hr shift basis i.e. 3 shifts per day for round the clock service. However, BCPL may operate 2 or 3 shifts in a day as per BCPL requirement& 1 MAD (man day) is 8 hrs. However working time can be changed as per requirement of work as decided by EIC.

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Dy. Manager (C & P)
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ANNEXURE-B

SCOPE OF WORK

SUB: Assistance for Pre - Commissioning, Commissioning and Start-up & Stabilization of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata.

(For Mechanical works)

A. GENERAL

1. In general the scope of job shall be as per the job details given in schedule of rate, however detailed specification of jobs shall be as per the instructions of engineer of BCPL, as per details given in this contract, as per drawing/sketches/as shown at site or as per instructions of Engineer-In-Charge & as per standard Engineering practice for Pre-commissioning, Commissioning and Start-up & Stabilization works of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan Unit of BCPL Project, Lepetkata.

2. The nature of the job is such that it may be staggered throughout Contract period or less (day & night) & contractor shall have to mobilize sufficient manpower at a short notice on as and when required basis as per requirement as per instruction of EIC. The Contract will be awarded for three months initially and may be extended to another three months on same terms and conditions.

3. The Contractor shall pay to the labors as per the revised minimum wages which shall be effective with time to time issued circulars of Minimum wages act. Moreover, skill and experience shall be given more importance accordance with respect to the wages. Also, all levies and benefits shall be in accordance with labor and contract laws.

4. As per the Scope of Work and Special conditions of contract, the contractor must be stayed responsible for all work and manpower related issues. Contractor must ensure the offered rates are reasonable and executable for the Schedule of Rates.

B. Scope of work for providing assistance for providing super-skilled, skilled, semi-skilled and unskilled services for Pre-commissioning, Commissioning and Stabilization of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata.

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Various services for assisting the activities of Pre-commissioning, Commissioning and Start-up & Stabilization of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata project are tentatively described as below –

1. Revisioning of all types of pumps.
2. Replacement of mechanical seals & bearings of pumps etc.
3. Various types of activities in reciprocating and centrifugal compressors, gas turbines, steam turbines, hydraulic turbines, fans, blowers like replacement of filters, strainers, lubrication assistance, greasing, repairing, refurbishment, precision works etc.
4. All type of Alignment between two rotary components, Couplings etc.5.
5. Replacement of filters etc.
6. Opening & boxing up flanges & replacement of gaskets etc.,
7. Removal & reinstallation of valves etc.
8. Maintenance, repairing, refurbishment of mechanical components like valves, traps, gear boxes, agitators etc.
9. Strainer repairs, net fixing, tray fixing etc.
10. Contractor should have sufficient scaffolding material in each unit at Lepetkata and GDU, Duliajan.
11. Experience to Work at height.
12. All type of rigging works like slinging, knots, proper handling of equipments/ components lifting, shifting, mounting, dismantling of equipments & components etc.
13. All type of fabrication and erection like Fittings, welding, gas cutting, grinding, erection etc.
14. Machining, filing, lapping etc. Assistance of fitting for Repairing/ overhauling/ millwright job etc. of Crane, Rail/ shifting with chain pulley block for repair.
15. Operation & maintenance of workshop machines like lathe m/c, drill m/c, milling m/c, grinding m/c etc.
16. Application of hot & cold insulation
17. Upkeep & maintenance of workshop ready store & tools
18. Record keeping & data maintenance of Mechanical work.
19. Assistance to Operations Department for unloading of acid, methanol & diesel from trucks to the respective storage tanks.
20. Loading / unloading of material at BCPL Store, stacking & shifting of structures, piping & other heavy materials.
21. Area cleaning, up keeping of equipments & working area.
22. Any other job which may require rigging assistance / assistance of unskilled personnel
23. Quality of service assistance shall be of good quality.
24. The individual deputed for the services should have sufficient exposure, knowledge & experience in the field.
25. Each Fitter gang should also have
    (i) Own tool box

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(ii) GI tray of sufficient size to keep the spares
(iii) Jute
(iv) Markin Cloth
(v) Any other material/Consumables/Rustolene etc. to clean the spare parts.

26. The tool box of each Fitter gang should contain minimum of the following:
(i) Tool box container.
(ii) Pad lock.
(iii) Ring & D spanner set (6 mm to 41 mm)
(iv) Pipe wrench (8 inch & 12 inch)
(v) Slide wrench (6 inch & 12 inch)
(vi) Screw driver (6 inch & 10 inch)
(vii) Ball point hammer- iron, 2 lb
(viii) Brass hammer, (2 lb & 5 lb)
(ix) Hack-saw frame – 12 inch, hex blade min 2 nos.
(x) Nose pliers.
(xi) Combination cutting pliers.
(xii) Chisel – 06 inch
(xiii) Allen key mm size (2mm to 12mm)
(xiv) Allen Key inch size (3/16" to ½")
(xv) Measuring Tape- 03 meter
(xvi) SS scale- 12 inch
(xvii) Centre Punch
(xviii) Needle files (set of triangular, round, half round, rectangle & all x- section)
(xix) Shim cutter
(xx) Monkey pliers
(xxi) Tool bag
(xxii) Filler gauge
(xxiii) Blue match paste
(xxiv) Dial Gauge
(xxv) Alignment fixture
(xxvi) Shims roll.

27. Contractor shall have at least 01 (one) set of following heavy tools/equipment in each of the units, i.e., GSU, CPP, IOP, offsite, GDU, Duliajan.
1. Set of slugging spanners
2. Hydraulic wrench
3. Wire rope/slings
4. Manila rope
5. Tripod
6. Lifting tools & tackles like chain pulley block, d-shackle, etc.
7. One set of hand lamp arrangement consisting of bulb with holder, flexible electrical wire about 50 mtr. in length, extension board, etc.

28. Gas Cutter should have adequate Oxygen and acetylene cylinder on daily basis. Tools, Kit for gas cutting shall be in the scope of the Contractor.

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29. Welding gang should have all general purpose fabrication electrode like E 6010, E 6018 etc. of diameter ranging from 1.5 mm to 2.5 mm ø. Welding gang should also equipped with AC or DC Welding machines with all accessories.
30. Safety gadgets for Welder, Gas Cutter shall be in Contractor's scope.
31. All workers engaged for assistance should be equipped with safety gadgets like helmet, shoes etc. BCPL have right to reject the entry of labor providing assistance without having proper safety gadgets.

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SUB: Assistance for Pre - Commissioning, Commissioning and Start-up & Stabilization of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata.

(For Operation/ Process works)

A. GENERAL

1. In general the scope of job shall be as per the job details given in schedule of rate, However detailed specification of jobs shall be as per the instructions of engineers of BCPL, as per details given in this contract, as per drawing/sketches/as shown at site or as per instructions of Engineer-In-Charge & as per standard Engineering practice for Pre-commissioning, Commissioning and Start-up & Stabilization works of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan Unit of BCPL Project, Lepetkata.
2. The nature of the job is such that it may be staggered throughout Contract period or less (day & night) & contractor shall have to mobilize sufficient manpower at a short notice on as and when required basis as per requirement as per instruction of EIC. The Contract will be awarded for three months initially and may be extended to another three months on same terms and conditions.
3. The Contractor shall pay to the labors as per the revised minimum wages which shall be effective with time to time issued circulars of Minimum wages act. Moreover, skill and experience shall be given more importance accordance with respect to the wages. Also, all levies and benefits shall be in accordance with labor and contract laws.
4. As per the Scope of Work and Special conditions of contract, the contractor must be stayed responsible for all work and manpower related issues. Contractor must ensure the offered rates are reasonable and executable for the Schedule of Rates.

B. Scope of work for providing Highly skilled, skilled, semi skilled and unskilled service assistance for pre-commissioning, commissioning and stabilization of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata.

Various services for assisting the activities of pre-commissioning, commissioning and Start-up & Stabilization of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata are tentatively described as below –

1. Pre- commissioning, commissioning & up-keeping of GSU/ C2 + Recovery, CPP, IOP & Offsite and GDU, Duliajan of BCPL Project, Lepetkata.
2. Having knowledge of understanding the P&ID's.
3. Operation of all types of valves & having basic knowledge of type & importance of valves.

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4. Having adequate experience of understanding the process, Loop identifications and importance of process parameters.
5. Proper Operation of all type of pumps as per standard operating procedure. (SOP).
6. Proper Operation of all type of Gas turbines, steam turbines & compressors as per SOP.
7. Proper Operation of all type of fans, blowers, agitators & all type of rotating equipments as per SOP.
8. Pressurisation and depressurisation of all type of vessels, columns, heat exchangers and all type of static & rotating equipments as per SOP.
9. Knowledge of system isolation, flare system & flare loop.
10. Knowledge & experience of card board blasting, chemical cleaning, line flushing, drying of loops, system cleanliness, readiness of systems, leak testing & inspection of column trays, nozzle inspection and checking etc.
11. Basic knowledge of lube oil system, seal gas system, mechanical seal system, gland seal system, ratcheting of steam turbines, oil flushing, basic knowledge of lubrication management etc.
12. Drain & vent of procedure.
13. Basic knowledge of safety, precautions & risk assessment of plant. Basic Knowledge of checking the points/ parameters while taking plant round.
14. Having knowledge of operation of process plant like fertilisers/ petrochemicals/ Power plant/ refineries/big chemical plants etc.
15. Having knowledge of operation of steam operated plant.
16. Basic Normal start-up/ Shutdown, Emergency shutdown, controlling & monitoring of plant from DCS console & Desk.
17. Controlling and continuous monitoring of DCS System.
18. Continuous monitoring & logging of lab analysis report related to water, steam gas & others and take the remedial action accordingly.
19. Monitoring and controlling of all the on line analyzers.
20. Stack monitoring.
21. Assistance to maintenance personnel in maintenance jobs.
22. Continuous monitoring and logging of all running parameters of plant in the control room from panel & DCS.
23. Continuous monitoring of overhead lube oil tanks.
24. Handling of emergency situations.
25. Area cleaning, up keeping of equipments & working area.
26. Any other job which may require operational assistance/ assistance of unskilled personnel.
27. Quality of service assistance shall be of good quality.
28. The individual deputed for the services should have sufficient exposure, knowledge & experience in the field.
29. Safety kit of operators / safety shoes/ goggles/ face shield/ apron/gloves etc shall be in the scope f the contactors.
30. Small tools like spanners, hammers etc should be in the scope of contractor.

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31. Consumables like markin cloth, cleaning agents should be in the scope of contractor.

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SUB: Service Assistance for supervisory work at the Plant of BCPL Project at Lepetkata and Duliajan.

(For Supervisory work)

B. GENERAL

5. In general the scope of job shall be as per the job details given in schedule of rate, however detailed specification of jobs shall be as per the instructions of EIC of BCPL, as per details given in this contract, as per drawing/sketches/as shown at site or as per instructions of Engineer-In-Charge & as per standard Engineering practice for dewatering inside the plant of BCPL Project, Lepetkata.

6. The nature of the job is such that it may be staggered throughout the three months or less (day & night) & contractor shall have to mobilize sufficient equipment and machinery manpower to run his own equipment and machinery at a short notice on as and when required basis as per requirement as per instruction of EIC.

7. The Contractor shall pay to the labors as per the revised minimum wages which shall be effective with time to time issued circulars for Minimum wages act. Moreover, skill and experience shall be given more importance accordance with respect to the wages. Also, all levies and benefits shall be in accordance with labor and contract laws.

8. As per the Scope of Work and Special conditions of contract, the contractor must be stayed responsible for all work and manpower related issues. Contractor must ensure the offered rates are reasonable and executable for the Schedule of Rates.

C. (i) Scope of Supervisory work for providing Service Assistance in the Plant of BCPL Project at Lepetkata and Duliajan.

Various services for assisting the activities of dewatering inside the plant of BCPL Project at Lepetkata and Duliajan are tentatively described as below –

1. Supervisor, by instruction of EIC, will deploy/assign manpower, equipment and machinery as per the requirement of the job.
2. Supervisor will keep accounts for assistance/associated manpower and all tools-tackles & consumables, which are in Contractor's scope, as per the requirement of the job.
3. Supervisor will be responsible for executing the job in safely manner and he will ensure safety of work and associated assistance including plant & machineries of BCPL.

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4. Supervisor will be responsible for punctuality, discipline of associated manpower assistance under his supervision and will be maintaining a positive/productive work environment at site.

