SHIP REPAIR MATERIALS DEPARTMENT

Tender Enquiry Ref No: SR6/Welding of Racks & Erection
Date: 07.10.2020

SUB: SCOPE FOR WELDING OF GEAR RACKS AND ERECTION OF THE FABRICATED JACK UP LEG PIPE FOR BARGE AMBERJACK

1. In connection with repairs for Barge Amberjack, we have a requirement to carry out Welding of Gear Racks and erection of the fabricated jack up leg jobs as per the attached list.

2. We request you to forward your most competitive firm quote in Two Bid System for the above requirements on or before 16th October 2020, 11:00 Hrs. Technical and Price bid should be submitted as separate. Because of the Covid – 19 pandemic, quotation shall be sent via E-mail only; soft copy of the price bid shall be forwarded as password protected document. The password can be shared at the time of price bid opening after request from CSL.

3. The technical bid of the tender shall be opened on the same day (16th Oct 2020) at 11:30 Hrs. The Price bid opening date of successful bidders shall be intimated on a later date after scrutiny of technical bids. Due to COVID-19 pandemic, bidders are not allowed inside CSL for Price bid opening.

4. The offer shall indicate payment terms and other terms and conditions.

5. Quotation should be valid for a period of 4 months.

6. Quotation should be submitted by email as a password protected document to the following email addresses:

   ravish.mg@cochinshipyard.com
   csl.srm6@cochinshipyard.com

Ph: +914842501679
Mobile: +91 8129270929

For any technical queries, please contact Mr Abhiram K R, Deputy Manager(NA), SRO
Ph No. 7356602005

(sd/-)
Manager(SRM-6)
Ship Repair Materials

Encl:
Annexure 1 : Scope of work
Annexure 2 : Price bid format
Annexure 3 : General terms and conditions
Annexure 4 : Specific terms and conditions
Annexure 5 : Compliance Matrix
Annexure 6 : Format of BG
Annexure 7 : HSE guidelines
TECHNICAL SPECIFICATION FOR THE SCOPE FOR WELDING OF GEAR RACKS AND ERECTION OF THE FABRICATED JACK UP LEG PIPE FOR BARGE AMBERJACK

Scope of Work:

1. Erection and welding of the CSL supplied fabricated pipe of length 15 mtr after welding of the owner supplied gear rack following DNV approved WPS (as attached, the contractor may have to prepare new WPS if required).
2. Fabricated pipe has a length of 15mtr and an additional 300 mm to ends.
3. The firm has to carry out the erection and welding of the fabricated leg pipe, after welding of the racks, on the vessel at a height of 41.4mtr from the bottom of the Spud Can. Total height of the leg from bottom of the spud can to the top of the lifting eye is 63.935mtr.
4. Since the proposed renewal of the leg pipe is an intermediate length. The work includes welding of the fabricated pipe to both the top and bottom part of the leg.
5. Care must be taken while such that there should not be any overlapping of butt welding i.e. pipe to pipe weld joints and the rack to rack weld joints.
6. Welding of the gear racks coming in way of the erection joints of the leg should be done only after welding and testing of the of the joints.
7. Similarly, the internal stiffeners coming in way of the erection joints should extend to the old pipe at least by a 300 mm.
8. For the fit up and welding of the internal stiffeners an access opening has to be made on the old pipe at both ends.
9. As given in the WPS, the welding of the pipe to pipe is to be carried out with E8018 electrode and the welding of the gear rack to the pipe is to be done with E11018 electrode.
10. the original plate is EH 36 and the pipe is fabricating by using S355J2+N grade plate. WPS for welding should be prepared if required as per the attached Sample WPS.
11. All joints are subjected to MPI/UT after welding as per surveyor’s requirement.
12. Preheat treatment and Post Heat Treatment necessities during the fabrication and erection of the leg pipe to be carried out.

SCOPE OF CONTRACTOR

1. Job should be undertaken on turnkey basis.
2. Mobilize men, equipment, tools and tackles to CSL site Cochin.
3. Clear deck area in way of spud house and erect scaffolding around the spud till the area of cutting (only if required and should be quoted separately)
4. Clean the weld joint and carry out MPI test to confirm the integrity of the joint between spud closing plate and lifting eye.
5. Identify and mark the location on the spud where the damage section to be cropped off.
6. Hold the lug at the lifting eye using suitable crane arranged by CSL.
7. Crop the spud as identified using oxy acetylene cutting torch.
8. Lift and off load the cropped out spud section using CSL arranged crane.
9. Prepare the cropped edges of the intact section of the spud as per the approved WPS edge preparation standard.

10. Carry out MPI on the prepared edges and confirm no cracks exists on the intact section of the spud.

11. Arrange CSL supplied new fabricated spud section on a levelled floor adjacent to dock floor.

12. Install and fit owner supplied racks (in sections) on the spud section and proper alignment of the rack to be ensured. Sufficient temporary side brackets shall be installed and tack weld to hold the rack inline. Strength of fitment must confirm; no undue distortion takes place while performing welding.

13. All proposed weld joints (rack to spud and rack to rack) shall prepare as per the drawings/ WPS. All joints shall secure by providing sufficient tack welding and strong supports.

14. The contractor should have DNV qualified welders for the WPS attached.

15. All joints shall grind, clean thoroughly and carry out MPI test to confirm the proposed joints are free from any surface flaws or defects.

16. Install electric heating coils and ceramic bands on the locations where to be performed. Proper temperature measuring equipment's should also be there to measure the temperature of heating.

17. Pre heat the joint till the required temperature prescribed in approved WPS.

18. Carry out welding between spud and rack and rack to rack. Maintain appropriate welding sequences in order to avoid any undue distortion/ deformation of spud and rack sections. Straightness and alignment shall be monitored using piano wire.

19. Carry out dry MPI test after each pass of weld while welding rack to rack section in order to confirm every pass weld is free from any kind of weld defects.

20. Upon completion of welding, entire weld area shall be covered using suitable fire blanket till ambient temperature in order to avoid sudden cooling of the weld area.

21. Up on cooling grind all weld surfaces to remove sharp edges and spatters. Carry out MPI test on all fillet joints and UT on all butt joints to confirm all joints are free from weld defects.

22. Fit sufficient strong backs supports of sufficient length around the prepared spud section on board to hold the refurbished spud section in vertical and straight position.

23. Lift the refurbished spud section, position vertically, set and align the joint using suitable crane arranged by CSL crane shall be made available at site till the fitment of the joint is perfectly done.

24. Carry out the welding between the spud to spud and rack to rack as per the approved WPS (including adoption of electric pre heating). Straightness and trueness of the spud and rack shall be monitored using piano wire method throughout the welding process.

25. Up on completion of welding, remove all supporting brackets around the spud sections and racks, grind and remove all tack welded deposits and repair any scars/ deep pits caused on the spud due to welding of temporary supports.

26. Carry out MPI/UT on newly welded joints and confirm integrity of the weld joints.

27. Dismount the scaffolding (only if required and should be quoted separately) and demobilize the team from CSL site.
SPECIFIC TERMS AND CONDITIONS
1. Job to be executed on lump sum turnkey basis.
2. Quote for the staging services should be given separately. CSL can delete the scope of staging and destaging before finalisation of the Order/ during the technical evaluation stage, if there is no requirement.
3. Quote should be inclusive of all mobilization/transportation charges.
4. All materials & consumables required to undertake the job shall be in vendor's scope
5. Bidders are advised to be comprehended of the job scope and studied of the intricacies & hence may visit on board/ contact CSL for clearing the apprehensions if require, before submission of the quote.
6. Vendor to indicate whether each work/material is quoted/not quoted and the same shall be enclosed with the technical bid.
7. All critical in way jobs for carrying out the main work such as the rigging related job only with the erection of the leg pipe, de- gutting & re-gutting jobs, etc. shall be on CSL scope. However, the same shall be carried out under the supervision of successful bidder & the supervision cost must be inclusive.
8. Moreover, all hot work in connection with fabrication and erection of leg pipe, all rigging job related to alignment, all associated works for the installation & commissioning of the leg up to the satisfaction of ship staff/owner shall be the responsibility of the vendor. Also, the preservation of dismantled parts and tools etc. will be in vendor's scope.
9. Necessary arrangements like crane & forklift service, water if required, electricity, compressed air shall only be provided by CSL.
10. All cables and other fittings required for the connection of electrical equipments shall be arranged by the vendor himself.
11. The offer should have one to one match with the repair specification/work scope. In case of any deviation/ variation; the same may clearly be indicated in your offer in bold letters.
12. If any works that are not specifically mentioned under repair specification/work scope and the same is required to be carried out for successful completion of the job shall be considered and specifically brought out by the bidder.
13. Copy of unpriced bid should be submitted along with the technical bid.
14. Bidders are not permitted to engage other registered vendors of CSL or their employees while undertaking the work scope.
15. Bidders are not permitted to sublet the job wholly or partially to other vendors.
16. The successful bidder shall submit Quality Assurance Plan (QAP) and activity chart with time lines prior to commencement of the job.
17. The successful bidder shall depute a site supervisor, having sufficient experience on similar jobs not less than 03 years, for planning, scheduling and co-ordination of works. The bidder shall ensure presence of supervisor at work site throughout working hours and the job will not be allowed to continue in the absence of site supervisor. The vendor can also engage more supervisors if required for enabling smooth working at site.
18. CSL reserves right to modify (deletion / addition) scope of work in line with time lines of repair project, as per Owner's requirement or due to other circumstances.
19. All tools and tackles including special tools required for the job shall be brought by the bidder. All PPEs required for work force shall be arranged by the bidder.
20. The successful bidder shall strictly comply with CSL’s HSE policy and necessary documents as required by CSL’s safety department shall be submitted.

21. Certified tools and tackles are only allowed to use and the bidder shall abide by prevailing rules and regulations at CSL.

22. The vessel is expected to be arrived at CSL tentatively by last week of October 2020. Hence, all equipment/materials/spares are required to be positioned in CSL at least 2 days before the arrival date of the vessel & the successful bidder shall mobilize the team in advance and commence the job from the date arrival of vessel at CSL.

23. The estimated dry docking period of the vessel is 45 days. The entire work related to leg repair shall be completed within the above duration up to the satisfaction of CSL/OWNER /Surveyor. The bidder shall be equipped to carry out the job in two/ three shifts so as to match with the above time lines of repair schedule of the vessel.

24. The successful bidder shall give guarantee for six months from the successful installation & commissioning of equipment's for workmanship. Any defects arise due to poor workmanship during the guarantee period shall be rectified without any expenditure to CSL.
WELDING PROCEDURE SPECIFICATION
# WELDING PROCEDURE SPECIFICATION DATA

**STANDARD OR CODE**
- AMERICAN WELDING SOCIETY - D 1.1 : 2010
- LLOYDS REGISTER, Rules & Regulation for the Classification of ships January - 2015

**REFERENCE**
- ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH -QC/116

**Ship Name:** AMBERJACK  
**Order No:** 147004  
**Job No:** 9235  
**Subject:** LEG REPAIRS - NEW PIPE TO NEW PIPE  
**Welding Process:** SMAW  
**Type:** Manual

## Joint Design:
- SINGLE "V"

## Treatment to 2nd Side:
- Electro-air back gouging to sound metal
- Use fill & cap run parameters & consumables

## Electrical Characteristics

<table>
<thead>
<tr>
<th>Position</th>
<th>Filler / Electrode Size</th>
<th>Welding Currentamps</th>
<th>Voltage</th>
<th>Type</th>
<th>Polarity</th>
<th>Shielding Gas Flow</th>
<th>Backing Gas Flow</th>
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<td>( + )</td>
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<tr>
<td>3G</td>
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<td>( + )</td>
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<tr>
<td>4G</td>
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<td>NA</td>
<td>DC</td>
<td>( + )</td>
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<td>NA</td>
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</tbody>
</table>

## Technique (QW-410)
1. **Initial & Interpass Cleaning** - by grinding, steel wire brush and chipping hammer.
2. **Welding beads** - weave or string
3. **Welding area** to be free from rust, scale, paint, grease and moisture.

**NOTE:** Welders are permitted to select the current setting & Arc speed subjected to the max. heat input 50kJ/cm. Lloyds Rules.

Welding Engineer: [Signature]
ARAB SHIPBUILDING AND REPAIR YARD COMPANY

WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE
AMERICAN WELDING SOCIETY - D 1.1 : 2010
LLOYDS REGISTER, Rules & Regulation for the
Classification of ships January - 2015

REFERENCE : ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH-QC/111

Ship Name: AMBERJACK
Order No: 147004
Job No: 9235
Subject: LEG REPAIRS - NEW PIPE TO OLD PIPE
Welding Process: SMAW
Type: Manual

Joint Design: SINGLE "V"

BASE METALS (QW-403)
API 5L X 65 TO A 633 Gr. E
FILLER METALS (QW-404)
AWS A5.5 E 8018 - C1
WELDING POSITION (QW-405)
All
TEMPERATURES (QW - 406)
Preheat Temperature : 65°C min,
Interpass Temperature : 260°C max.
Heating Method : Oxy Act. Gas Torch
Temperature Controlled by : Templistik

TREATMENT TO 2nd SIDE
P.W.H.T. (QW-407)
Cooling slowly to the ambient temperature in still air

Electro-air back gouging to sound metal
Use fil & cap run parameters & consumables

ELECTRICAL CHARACTERISTICS

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<td>DC</td>
<td>(+)</td>
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<tr>
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<td>(+)</td>
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<tr>
<td>4G</td>
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<td>NA</td>
<td>DC</td>
<td>(+)</td>
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Technique (QW-410)
1. Initial & Interpass Cleaning - by grinding, steel wire brush and chipping hammer.
2. Welding beads - weave or string
3. Welding area to be free from rust, scale, paint, grease and moisture.

NOTE: Welders are permitted to select the current setting & Arc speed subjected to the max. heat input 50kJ/cm. Lloyd's style.
ARAB SHIPBUILDING AND REPAIR YARD COMPANY

WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE
AMERICAN WELDING SOCIETY - D 1.1 : 2010
LLOYDS REGISTER, Rules & Regulation for the
Classification of ships January - 2015

REFERENCE : ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH - QC/109

Ship Name: AMBERJACK
Subject: LEG REPAIRS - LEG OLD PIPE TO INTURNALS
Welding Process: SMAW

Joint Design.

FILLE WELDING

BASE METALS (QW-403)
A633 Gr. E TO A572 Gr 50 OR EQUIVALENT
FILLER METALS(QW-404)
AWS A5.5 E 8018 - C1
WELDING POSITION (QW-405)
ALL
TEMPERATURES (QW - 406)
Preheat Temperature : 65°C min,
Interpass Temperature : 260°C max.
Heating Method : Oxy Act. Gas Torch
Temperature Controlled by : Templistk

TREATMENT TO 2nd SIDE

NA

P.W.H.T. (QW-407)
Cooling slowly to the ambient temperature in still air

ELECTRICAL CHARACTERISTICS

<table>
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<tr>
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<tr>
<td>3F</td>
<td>3.2 mm</td>
<td>103-140 NA DC (+)</td>
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<tr>
<td>4F</td>
<td>3.2 mm</td>
<td>106-136 NA DC (+)</td>
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</table>

Technique (QW-410)
1. Initial & Interpass Clening - by grinding, steel wire brush and chipping hammer.
2. Welding beads - weave or string
3. Welding area to be free from rust, scale, paint, grease and moisture.

NOTE: Welders are permitted to select the current setting & Arc speed subjected to the max. heat input 50kJ/cm. Lloyds Rules
ARAB SHIPBUILDING AND REPAIR YARD COMPANY

WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE
AMERICAN WELDING SOCIETY - D 1.1 : 2010
SECTION IX OF ASME CODE

REF: ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH - QC/96

Ship Name: AMBERJACK Order No: 147004 Job No: 9235
Subject: RACK(NEW) TO RACK (NEW) - Up to 50% of the deposited weld metal thickness
Welding Process: SMAW Type: Manual

Joint Design:

GEAR RACK DETAILS

Ref. Dwg. - 75-L1

TREATMENT TO 2nd SIDE
NA

BASE MATERIAL (QW-403)
ASTM A 514 / ABS GRADE EQ70
FILLER MATERIAL (QW-404)
AWS A5.5 E 11018 - M
WELDING POSITION (QW-405)
ALL

TEMPERATURES (QW - 406)
Preheat Temperature : 150°C min.
Interpass Temperature : 260°C max.
Heating Method : By Gas Torch.
Temperature Control : Templistik.
P.W.H.T. (QW-407)
Slow cooling to the ambient temperature covered by insulation matt.

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Pass</th>
<th>Filler Size(mm)</th>
<th>Welding Current</th>
<th>Shielding Gas</th>
<th>Backing Gas</th>
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<tbody>
<tr>
<td></td>
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<td>Ampers Voltage Type Polarity</td>
<td>Type Flow</td>
<td>Type Flow</td>
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<tr>
<td>Root</td>
<td>2.5</td>
<td>60-80 NA DC (+)</td>
<td>NA NA</td>
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<tr>
<td>Subsequent</td>
<td>3.2</td>
<td>80-130 NA DC (+)</td>
<td>NA NA</td>
<td>NA NA</td>
</tr>
</tbody>
</table>

Technique (QW-410)

1. Initial & Interpass Cleaning by grinding or steel wire brush or chipping hammer.
2. Electrodes that have been out of oven over 4 hrs. shall be rebaked at 325°C - 375°C for 2 hr. and shall be stored in holding oven 120°- 180° C before use.
3. Electrodes shall be used from quivers heated at 70°C at the job.
4. Welding area to be free from rust, scale, paint, grease and moisture.
5. Hot pass shall be applied immediately after root-pass.
6. The weld and the adjacent areas are to be checked for cracks by MPI after each pass and on completion of welding.

Welding Engineer
WELDING PROCEDURE SPECIFICATION

STANDARD/CODE: AMERICAN WELDING SOCIETY - Structural Welding Code(D1.1)
REF: ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH - QC/110

Ship Name: AMBERJACK  Order No: 147004   Job No: 9235
Subject: LEG REPAIR - RACK TO OLD LEG FITUP  Type: Manual
Welding Process: SMAW

Joint Design:

TACK WELDING
(For fit up)

ALL TACK WELDS SHOULD BE REMOVED BEFORE FINAL WELDING TO BE CARRIED OUT ON THE TACK LOCATION

TREATMENT TO 2nd SIDE

P.W.H.T.

BASE METALS
ASTM A633 Gr. E TO ASTM A 514 / ABS EQ 70

FILLER METALS
AWS A5.5 E 11018M H4R

WELDING POSITION
1G & 2G

TEMPERATURES
Preheat Temperature : 120°C min.
Interpass Temperature : 260°C max.
Heating Method : Torch heating.

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Pass</th>
<th>Filler / Electrode</th>
<th>Welding Current</th>
<th>Shielding Gas</th>
<th>Backing Gas</th>
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<tr>
<td></td>
<td>Size</td>
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<td>Type Polarity</td>
<td>Flow</td>
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<td>70-100 21-28 DC (+)</td>
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<tr>
<td>subsequent</td>
<td>AWS A5.5 E 11018M H4R 3.2mm</td>
<td>100-140 21-28 DC (+)</td>
<td>NA</td>
<td>NA</td>
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</tbody>
</table>

NOTES:
1. Initial & Interpass Cleaning - by grinding, steel wire brush and chipping hammer.
2. Welding beads - weave or string
3. Welding area to be free from rust, scale, paint, grease and moisture.

Welding Engineer
WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE

AMERICAN WELDING SOCIETY - D 1.1 : 2010
LLOYDS REGISTER, Rules & Regulation for the
Classification of ships January - 2015

REFERENCE : ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH - QC/113

Ship Name: AMBERJACK Order No: 147004 Job No: 9235
Subject: LEG PIPE REPAIR - NEW PIPE TO NEW RACK
Welding Process: SMAW Type: Manual

Joint Design: BASE METALS (QW-403)
A514 / S690QL1 TO API 5L X65
FILLER METALS (QW-404)
AWS A5.5 E 11018M H4R
WELDING POSITION (QW-405)
2F
TEMPERATURES (QW-406)
Preheat Temperature : 120°C min.
Interpass Temperature : 260°C max.
Heating Method: Manning ceramic pads.

TREATMENT TO 2nd SIDE

P.W.H.T. (QW-407)
Heating & Cooling Rate: 40° C / hr. max.
Hydrogen bake out: 300°C deg. for 2 hrs.

ELECTRICAL CHARACTERISTICS

<table>
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<tbody>
<tr>
<td></td>
<td>AWS A5.5 E 11018M H4R</td>
<td>70-110 Ampers</td>
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<td>DC (+) Polarity</td>
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<tr>
<td></td>
<td>AWS A5.5 E 11018M H4R</td>
<td>105-150 Ampers</td>
<td>23-25 Voltage</td>
<td>DC (+) Polarity</td>
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<tr>
<td>subsequent</td>
<td>3.2mm</td>
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</table>

Technique (QW-410)
1. Initial & Interpass Cleaning - by grinding, steel wire brush and chipping hammer.
2. Welding beads - weave or string
3. Welding area to be free from rust, scale, paint, grease and moisture.

Welding Engineer
WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE
- AMERICAN WELDING SOCIETY - D 1.1 : 2010
- LLOYDS REGISTER, Rules & Regulation for the Classification of ships : January - 2015

REFERENCE : ASRY QUALIFIED WELDING PROCEDURE ASRY/TECH - QC/116

Ship Name: AMBERJACK  Order No: 147004  Job No: 9235
Subject: LEG REPAIRS - ACCESS HATCH (NEW LEG)  Type: Manual
Welding Process: SMAW

Joint Design:

SINGLE "V"
(WITH METAL BACKING)

BASE METALS (QW-403)
- API 5L X65 PSL1
FILLER METALS(QW-404)
- AWS A5.5 E 8018 - C1
WELDING POSITION (QW-405)
ALL
TEMPERATURES (QW-406)
- Preheat Temperature : 65°C min,
- Interpass Temperature : 260°C max.
- Temperatures Controlled by Templitstik

TREATMENT TO 2nd SIDE
P.W.H.T. (QW-407)
- Cooling slowly to the ambient temperature in still air

ELECTRICAL CHARACTERISTICS

<table>
<thead>
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<tbody>
<tr>
<td>1</td>
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<td>105-150 23-25 DC (+) NA</td>
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Technique (QW-410)
1. Initial & Interpass Cleaning - by grinding, steel wire brush and chipping hammer.
2. Welding beads : steady or string
3. Welding area to be free from rust, scale, paint, grease and moisture.
ARAB SHIPBUILDING AND REPAIR YARD COMPANY

WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE: SECTION IX OF ASME CODE

REF: ASRY QUALIFIED WELDING PROCEDURES ASRY/TECH - QC/ 34 & 36

Ship Name: AMBERJACK       Order No: 147004       Job No: 9235
Subject: LIFTING PAD EYES FOR LEG (Doubler pad to Pad eye)
Welding Process: SMAW       Type: Manual

Joint Design: BASE MATERIAL (QW-403)
            EH 36
            FILLER MATERIAL (QW-404)
            AWS A5.1 E 7018 - 1
            WELDING POSITION (QW-405)
            ALL
            TEMPERATURES (QW - 406)

Preheat Temperature : See Note 3 & 4 below
Interpass Temperature: 260°C max.

Controlled by Templistik

TREATMENT TO 2nd SIDE

P.W.H.T. (QW-407)

Cooling slowly to the ambient temperature in still air

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Pass</th>
<th>Filler Size(mm)</th>
<th>Welding Current</th>
<th>Shielding Gas Type</th>
<th>Backing Gas Type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ampers Voltage DC Type Polarity</td>
<td>Flow</td>
<td>Type Flow</td>
</tr>
<tr>
<td>1</td>
<td>2.5</td>
<td>80-110 22 DC (+)</td>
<td>NA NA NA NA</td>
<td></td>
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<tr>
<td>2</td>
<td>3.2</td>
<td>110-150 23 DC (+)</td>
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<td></td>
</tr>
<tr>
<td>3</td>
<td>4.0</td>
<td>140-200 24 DC (+)</td>
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</tr>
</tbody>
</table>

Technique (QW-410)
1. Initial & Interpass Cleaning - by grinding or steel wire brush or chipping hammer.
2. Welding area to be free from rust, scale, paint, grease and moisture.
3. Maintain preheating temperature as follows.
   a.) Ambient, when wall thickness ≤ 38 mm
   b.) 110°C, when 38 mm ≤ Wall thickness ≤ 65 mm
   c.) 150°C, when 65 mm ≤ wall thickness
4. Local preheating using oxy-acetylene burner

Welding Engineer
WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE: SECTION IX OF ASME CODE

REF: ASRY QUALIFIED WELDING PROCEDURES ASRY/TECH - QC/ 34 & 36

Ship Name: AMBERJACK  Order No: 147004  Job No: 9235
Subject: LIFTING PAD EYES FOR LEG (Doubler pad to Pad eye)
Welding Process: SMAW  Type: Manual

Joint Design:

BASEMATERIAL (QW-403)
EH 36
FILLERMATERIAL (QW-404)
AWS A5.1 E 7018 - 1
WELDINGPOSITION (QW-405)
ALL
TEMPERATURES (QW - 406)
Preheat Temperature : See Note 3 & 4 below
Interpass Temperature : 260°C max.
Controlled by Tempilstik

TREATMENT TO 2nd SIDE
P.W.H.T. (QW-407)
NA
Cooling slowly to the ambient temperature in still air

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Pass</th>
<th>Filler Size(mm)</th>
<th>Welding Current</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Ampers</td>
<td>Voltage</td>
<td>Polarity Type</td>
<td>Flow</td>
</tr>
<tr>
<td>1</td>
<td>2.5</td>
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<td>22</td>
<td>(+) NA</td>
<td>NA</td>
</tr>
<tr>
<td>2</td>
<td>3.2</td>
<td>110-150</td>
<td>23</td>
<td>(+) NA</td>
<td>NA</td>
</tr>
<tr>
<td>3</td>
<td>4.0</td>
<td>140-200</td>
<td>24</td>
<td>(+) NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Technique (QW-410)
1. Initial & Interpass Cleaning - by grinding or steel wire brush or chipping hammer.
2. Welding area to be free from rust, scale, paint, grease and moisture.
3. Maintain preheating temperature as follows.
   a.) Ambient, when wall thickness ≤ 38 mm
   b.) 110°C, when 38 mm ≤ Wall thickness ≤ 65 mm
   c.) 150°C, when 65 mm ≤ wall thickness
4. Leave preheating using oxy-acetylene burner

Welding Engineer
ARAB SHIPBUILDING AND REPAIR YARD COMPANY

WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE: SECTION IX OF ASME CODE

REF: ASRY QUALIFIED WELDING PROCEDURES ASRY/TECH - QC/34 & 36

Ship Name: AMBER JACK Order No: 147004 Job No: 9235
Subject: CRACK REPAIR - LEG PAD EYES, LEG JOINTS & BRACKETS
Welding Process: SMAW Type: Manual

Joint Design:

"U" GROOVE

BASE MATERIAL: (QW-403)
ASTM A 36 OR ASTM A633 GRADE D
FILLER MATERIAL: (QW-404)
AWS A5.1 E 7018 - 1
WELDING POSITION (QW-405)
ALL
TEMPERATURES (QW - 406)
Preheat Temperature: Refer Note 7 below
Interpass Temperature: 260°C max.
1. local preheating using oxy-acetylene burner
2. temperatures controlled by Temperstiks

TREATMENT TO 2nd SIDE
NA

P.W.H.T. (QW-407)
Cooling slowly to the ambient temperature in still air covered by a insulation mat.

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Pass</th>
<th>Filler Size (mm)</th>
<th>Welding Current Ampers</th>
<th>Voltage</th>
<th>Type</th>
<th>Polarity</th>
<th>Shielding Gas Type</th>
<th>Flow</th>
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</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>2.5</td>
<td>80-110</td>
<td>22</td>
<td>DC</td>
<td>(+)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>2</td>
<td>3.2</td>
<td>110-150</td>
<td>23</td>
<td>DC</td>
<td>(+)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Subsequent</td>
<td>4.0</td>
<td>140-200</td>
<td>24</td>
<td>DC</td>
<td>(+)</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
</tbody>
</table>

Technique (QW-410)
1. Cracks to be removed by grinding / Gouging to form of welding groove of "U" shape
2. Gouging to be done at same pre-heat temperature as below.
3. After grinding / Gouging & cleaning, area shall be checked by NDT to ensure crack has been removed completely.
4. Initial & Interpass Cleaning - by grinding or steel wire brush or chipping hammer.
5. Welding area to be free from rust, scale, paint, grease and moisture.
6. Welding Bead : String or Wave
7. Maintain the pre-heat temperature as below, according to the material thickness (T mm)
   i. Below & inc. 20mm - Ambient
   ii. 20 < T <= 38 : 65°C
8. After welding / Grinding & cleaning the weld area shall be checked by NDT.
9. Obtain the client approval before start the repair / welding.
ARAB SHIPBUILDING AND REPAIR YARD COMPANY

Date: 04.03.2015

WELDING PROCEDURE SPECIFICATION DATA

STANDARD OR CODE: SECTION IX OF ASME CODE

REF: ASRY QUALIFIED WELDING PROCEDURES ASRY/TECH - QC/(34 & 36)

Ship Name: AMBERJACK  Order No: 147004  Job No:

Subject: SPUDCAN RENEWAL

Welding Process: SMAW  Type: Manual

Joint Design: SINGLE "V" WITH METAL BACKING

BACKING MATERIAL GRADED "A"

BASE MATERIAL (QW-403)

GRADE "A"

FILLER MATERIAL (QW-404)

AWS A5.1 E 7018 - 1

WELDING POSITION (QW-405)

ALL

TEMPERATURES (QW - 406)

Preheat Temperature : ambient

Interpass Temperature : 260°C max.

Controlled by Templistik

P.W.H.T. (QW-407)

Cooling slowly to the ambient temperature in still air covered by insulation matt.

TREATMENT TO 2nd SIDE

NA

ELECTRICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Pass</th>
<th>Filler Size(mm)</th>
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<td>24</td>
<td>DC</td>
</tr>
</tbody>
</table>

Technique (QW-410)

1. Initial & Interpass Cleaning - by grinding or steel wire brush or chipping hammer.

2. Welding area to be free from rust, scale, paint, grease and moisture.

Welding Engineer
AMBERJACK
ORDER NO. - 147004
JOB NO. - 9235

LEG JOINTS WELDING SEQUENCE

NOTES:
1. DEPLOY 2 WELDERS SIMULTANEOUSLY
2. WELDING TO BE CARRIED OUT IN THE DIRECTION AS SHOWN IN THE ABOVE FIGURE
AMBERJACK
LEG - RACK WELDING SEQUENCE

May 02, 2015

NOTE:
NUMBERS - WELDING SEQUENCE
LETTERS - NO OF WELDERS

Total rack length to be welded is 24 m.

1.0 m
AMBERJACK
RACK TO PIPE WLEDING - Leg No. 4

May 13, 2015

Steps to Follow

1. Tack weld at minimum preheat temperature of 120°C - heating by gas torches.
   Ref: WPS No.: 05132015N

2. Rack - Rack welding up to 50% @120°C - heating by gas torches.
   Ref: WPS No.: 05132015M
   Notes: After hot pass the weld shall be inspected by MPI.

3. After the fitup approval, prepare the full length for preheating using electrical resistance heating pads.

4. Commence rack to pipe welding as per the attached sequence starting form the middle. Ref: WPSD - 05022015A
   Notes: In order to minimize problems related to expansion due to heat, only the relevant segment/s shall be heated during welding.
   Note: Grind & clean stop / start locations.

7. Start postweld heat treatment on completion of final welding as per relevant WPS.

Note:
1. Always overlap each weld pass at weld stop / start points.
2. All welds done with torch heating - the weld shall be cooled slowly to the ambient temperature covered with insulation blanket.
3. For torch heated welding, the preheat temperature shall be maintained five inches along the rack.
AS BUILT/AS FITTED DRAWINGS
MK # RG
MATL : 10 mm EH-36 PL
QTY : 02 Units
MK # RG-W
MATL : 10mm EH-36 PL
QTY : 04 Nos

MK # RG-F
MATL : 10 mm EH-36 PL
QTY : 04 Nos
BACK STRIP

MK # BSA
MATL: 25.4mm PL
QTY: 01 No

MK # BS
MATL: 10mm EH-36 PL
QTY: 01 No

GENERAL NOTES
1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS NOTED OTHERWISE.
2. ALL WELDS ARE TO BE IN ACCORDANCE WITH AMERICAN BUREAU OF
   SHIPBUILDING RULES FOR BOLTED & CLASSED STEEL VESSELS AND/OR
   BY APPROVED AES PROCEDURES.
3. ALL SPSH/SHлик HOLES TO BE 25mm x 25mm RD G100.
4. ALL DIMENSIONS SHOWN ARE NET & NO ALLOWANCE FOR FIT-UP.
5. SHIMMING OR EJECTION HAS BEEN INCLUDED.
6. ALL WELDS TO BE CONTINUOUS SEAMED UNLESS NOTED OTHERWISE.
7. LEG LENGTH OF ALL LEGS TO BE 0.7 X MINIMUM THICKNESS (MIN
   THICKNESS OF INCOMING BEAM / ANGLE) OR 3 mm, WHICHEVER IS
   GREATER.
8. ALL BEAM FLG TO FLG CONNECTION SHALL BE FULL PENETRATION WELD G100.
9. ALL DIMENSIONS TO BE FIELD ADJUSTED PRIOR TO FABRICATION & CONSTRUCTION.
10. CORRUGATED AND SHARP EDGES TO BE GRIND SMOOTH.

MATERIAL SPECIFICATION
1. ALL PLATES TO BE 5TH GRADE A OR EQUAL UNLESS NOTED OTHERWISE.
2. ALL PIPE TO BE 203 A-106 GR. B UNLESS NOTED OTHERWISE.
3. ALL FASTENERS TO BE 5TH GRADE A OR EQUAL UNLESS NOTED OTHERWISE.

REFERENCE DRAWINGS

MATERIAL TAKE OFF

MK#  | DESCRIPTION  | MATL | QTY | WT
-----|--------------|------|-----|-----

Total Weight

REVISION HISTORY

ASRY OFFSHORE SERVICES
P.O. BOX 50108,
R.K. Kingdom of Bahrain.
E-mail: ars@asry.net
Web: www.asry.net

CLIENT:

TITLE: AMBER JACK
LEG # 4 STEEL REPAIRS

DRAWING NUMBER: 147004

N A 9992 01-01 0 147004

SCALE 1:1  N A  ABS
# PRICE BID FORMAT

<table>
<thead>
<tr>
<th>WELDING OF GEAR RACKS AND ERECTION OF THE FABRICATED JACK UP LEG PIPE FOR BARGE AMBERJACK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Part A</strong></td>
</tr>
<tr>
<td>WELDING OF GEAR RACKS AND ERECTION OF THE FABRICATED JACK UP LEG PIPE FOR BARGE AMBERJACK</td>
</tr>
</tbody>
</table>

Optional:

| **Part B** | Total cost of job inclusive of all materials and services (Excluding tax) | GST | Total (Including tax) |
| Staging and destaging jobs including all scaffolding and materials required for the job | xxx | xxx | xxx |

*Note: No change in the bid format is acceptable.*
Annexure 3

**General Terms and Conditions**

1. Tenderers are to carefully go through the terms and conditions and the techno commercial specification of the items for which offers are called for. Deviations, if any, shall be separately listed and specifically brought out in the offer. CSL reserves the right to accept / reject the deviations.

2. Offers are to be furnished in duplicate and should be free from overwriting. Corrections and additions, if any, must be attested. Incomplete/ ambiguous offers are likely to be rejected. No overwriting/corrections. If so to be attested.

3. CSL terms of payment are 100 % within 30 days from the date of satisfactory completion of work and submission of Work completion certificate together with tax invoice.

4. Work completion time required should be indicated in the offer.

5. LD Clause: In case of delay in supply of ordered materials / delay in completion of work beyond the stipulated delivery / completion period which is not attributable to CSL, vendor is to pay liquidated damages (and not by way of penalty) a sum equivalent to ½%(half percent) per week or part of the week of the order value (basic price) in the case of machinery/equipment/ service and of the value of materials / services delayed in the case of all other items, subject to a maximum of 10% of the order value (basic price). For service orders, completion date as confirmed by the executing officer shall be reckoned for LD calculation.

6. Service provided shall be guaranteed for satisfactory performance for 6 months from the date of completion of service against faulty design, defective materials and bad workmanship. Vendor should supply and install free of cost immediately any part found to be defective for the above reasons within the guarantee period.

7. Vendor is solely responsible for the safety of its personnel inside CSL. Service provider will be responsible for the safety of personnel engaged and shall adopt all safety measures to comply with safety regulations in force in CSL. Service representative working onboard should maintain proper dress code as per CSL standards. They shall submit electronic chalan remittance copy of ESI&EPF details of their employees and employee compensation policy details for employees not falling under ESI limit during the submission of invoice, documents supporting for facilitating gate access. They are bound to follow safety guidelines applicable in CSL like safe usage of tools & tackles, electrical safety guidelines, gas management system etc. Scrap management system & disposal of hazardous chemicals used to dispose by contractor itself on his own responsibility. Work place hygiene to be ensured by contractor itself.
8. Samples are to be supplied free of cost in the event of requirement by CSL. The detailed working drawing, if called for, is also to be furnished for approval before commencement of manufacture.

9. Asbestos should not be part of any material /packing material supplied to CSL.

10. Shall abide by CSL rules for entry and exit of man and materials. Vendor and personnel will comply with: (1) all procedures and policies provided by CSL, including CSL’s, environmental, health, safety, and security procedures, and related management systems when performing services at CSL facilities.

11. Service provider will have to abide by the various laws & regulations such as Contract Labour Regulation (Abolition) Act, ESI Act 1948, EPF Act 1952 etc as applicable. For determining EPF/ESI liability, the attached format to be duly filled and submitted to our welfare department before commencement of work & before 5th of every month. In case your employees are already covered under EPF/ESI scheme, their respective account numbers are to be furnished along with copy of challans as proof for remittance of ESI & EPF. If any employee is exempted from ESI, valid proof for the same also shall be submitted before commencement of work. Labor deputed for the work shall not have crossed over 60 years. Submission of above documents is statutory for issue of entry passes for working inside CSL. This is also required for releasing the payment since CSL site is permanently covered under above noted regulations.

12. Vendor will package products according to instructions of CSL provided in the purchase order, and if nothing is provided, then according to good commercial practice to ensure safe arrival of the products. Avoid plastic materials for packing to the extent possible. Packing material shall be ecofriendly. Vendor should follow the statutory requirements of the products offered. In case of chemicals and toxic materials being supplied, vendor should furnish material safety data sheet (MSDS) compulsorily along with the material.

13. Should failure in performance of the contract or part thereof arise from war, insurrection, restrain imposed by government, act of legislature or other statutory authority or illegal strike, riot, legal lock-out, flood, fire, explosion, act of god, epidemic with government notification on restriction or any inevitable or unforeseen event beyond human control which may be construed as reasonable ground for an extension of time, CSL may allow such additional time as is mutually agreed, to be justified by the circumstances of the case. The occurrence/ cessation of force majeure situation are to be informed with documentary evidence within 15 days from the date of occurrence/cessation.

14. All questions, disputes or difference arising under, out of, or in connection with contract shall be subject to the exclusive jurisdiction of the courts at Ernakulum, Kerala, India.
15. Cochin Shipyard Limited does not bind itself to accept the lowest or any tender but reserves to itself the right to reject any or all or a part of any tender at its discretion.

16. The quantities in each item to be purchased may vary according to actual requirement at the time of placing orders.

17. Acknowledge the receipt and acceptance of purchase order by signing and returning a copy of the same within three days of receipt of the same. If the acknowledgement is not received, it will be presumed as accepted.

18. Price bid format to be strictly followed and submitted.

19. Lowest on total will be considered as L1.

20. After submission of tender, no unsolicited correspondence will be entertained.

21. No price escalations are accepted after submission of offers.

22. Mode of dispatch shall be mentioned in the quotation.

23. Subcontracting to other vendors shall be only after written intimation and approval of competent CSL authorities. Vendor shall not delegate or subcontract any of its obligations under the agreement without CSL’s written consent. Vendor will remain liable for all subcontracted obligations and all acts or omissions of its subcontractors.

24. The procedures of work, standard operating procedures of work including documents like welding procedure specifications developed by CSL are intellectual property of CSL. Vendors shall not use or copy the procedure in any format without the written consent of competent authorities of CSL.

25. Vendors shall take back rejected products, if any, and immediately supply new product/rectified product at vendor’s expense, including all freight costs.

26. For product that is discovered defective during the warranty period, vendor will, at vendor’s expense replace or repair defective product and re-deliver such repaired or replaced product to CSL within a commercially reasonable timeframe agreed by CSL.

27. Except as specifically stated in the purchase order, vendor will be responsible for all costs incurred in connection with providing the services, including personnel’s expenses.

28. CSL is not obligated to pay any invoice submitted 180 days or more after a product is shipped or services are completed.

29. Vendor shall return the CSL resources to CSL immediately after provision of all deliverables and services or any termination of the agreement.

30. Vendor warrants that the products and services will comply with their specifications and will be of good quality acceptable to CSL/ship and must be fit for any purpose made known to vendor.

31. Vendor warrants that the products will be new, unused, and not refurbished at the time of delivery, and will be safe for normal use and free from defects in design, materials, and workmanship during the warranty period.
32. Vendor warrants that for software provided by vendor, (1) there is no open source software in the products (or any other items provided by vendor), unless vendor has notified CSL in writing before delivery and CSL has consented in writing to accepting this open source software, and (2) the software will not damage, interfere with, or permit unauthorized access to any other existing products or systems on which it is installed or any information residing on those products or systems.

33. Vendor and personnel will (1) keep confidential the terms of the agreement and all non-public and proprietary CSL information, and will only use such information to provide products and services under the agreement, and will not disclose such information except to the extent required by law after giving reasonable notice to CSL, if permitted by law; and (2) not use in providing products or services or disclose to CSL any materials or documents of another party considered confidential or proprietary unless it has obtained written authorization from that party and CSL.

34. Vendor will indemnify CSL and its affiliates, directors, officers, and employees against all liabilities, damages, losses, costs, fees (including legal fees), and expenses relating to any allegation or third-party legal proceeding (including action by a government authority) to the extent arising from an allegation that use, possession, or sale of the products or services violates or infringes a third party's rights, including intellectual property rights; or an allegation that any personnel are entitled to employee compensation, benefits, or other rights or transfer law rights, except to the extent caused by CSL's unlawful acts or omissions.

35. Prices should be valid for acceptance for a period of four months from the date of opening of tender.

36. No enhancement of rate for whatever cause will be allowed once the offer is accepted and an order is placed. Withdrawal of the quotation after it is accepted or failure to make the supply within the stipulated delivery period will entail cancellation of the order and forfeiture of earnest money deposit/security deposit, if any and/or enforcement of risk purchase clause.

37. Taxes and other charges if any, payable extra are to be indicated in the price part for single bid and in techno-commercial part for two bids.

38. In view of COVID-19 pandemic, Vendors are not allowed inside CSL to attend opening of the price bid.

39. Conditional discounts, if any, will not be reckoned for tender evaluation/comparison purposes. However the same will be considered at the time of placement of purchase order if the firm turns out to be lowest bidder.

40. List of deviations from the general terms and conditions shall be submitted and the same shall be mutually acceptable. In the event of no deviation list submitted by the vendor, it is presumed that all conditions are accepted by the vendor.

41. All certificates called for in order specification must be sent to CSL at the time of delivery of items all the material supplied must satisfy CSL quality requirements.

42. Invoice:
(i) All invoices must be sent to CSL on delivery of items/work completion as per the order terms
(ii) Purchase order number and date and dispatch particulars should be clearly mentioned in the invoice.
(iii) Wherever payments are authorized through bank, copy of the invoice should be forwarded directly to CSL under intimation so as to facilitate release of document in time. All bank charges will be to vendor's account.
(iv) When the payment is in installments, separate invoice is required for each payment.
(v) 100% payment will be made against your invoice on satisfactory completion of the work.

The documents for releasing payment - original invoice with service report duly signed by vessel owner and CSL officer-in-charge along with documentary proof of expenses after satisfactory completion of work.

For arranging payment, six copies of your invoice along with work completion certificate shall be forwarded to "THE DEPUTY GENERAL MANAGER (SRM & PP), Cochin Shipyard Limited, Cochin - 682015" within 15 days from the date of completion of work. Income tax pan & service tax reg. number are to be indicated in the invoice. CSL shall be releasing the payment through NEFT mode only. It is therefore requested to return the attached format duly filled.

43. Cochin shipyard Ltd prefers to deal directly with the supplier. However, if the supplier appoints an Indian agent to deal with Cochin shipyard Ltd., the agency commission payable by the supplier to such an agency shall be intimated. If manufacturers affect the supply through agents only, authorization in writing from manufacturers in favour of the agent for supply to CSL shall be furnished. In case where an agent participates a tender on behalf of a foreign manufacturer Indian agent should submit specific authorization from the authorized person of foreign manufacturer. In a tender, either the Indian agent on behalf of the principal/ OEM or principal/ OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender. If an agent submits bid on behalf of principal/ OEM, the same agent shall not submit a bid on behalf of another principal/ OEM in the same tender for the same item/product. Indian agents cannot represent more than one firm or quote on their behalf for any particular tender. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender.
SPECIFIC TERMS AND CONDITIONS

Prequalification criteria

1. Bidder should have successfully undertaken jobs of similar nature as per tender work scope.
2. Bidders should submit the documentary proof for this along with the offer.
3. CSL reserve the right to reject your bid in case of any apprehension on your experience/capability to execute the work on time.
4. Firm shall be operating on a positive profit for the last three financial years (2017-2018, 2018-2019, 2019-2020). Audited statements of last three years to be submitted along with the offer. In case audited results of 2019-2020 are not published, the audited statement certified by a chartered accountant may be submitted.
5. CSL reserve the right to reject your bid based on your financial statement or credit rating in case of any apprehension on your financial capability to execute the work on time.

Conformity Conditions

1. Job to be executed on lumpsum turnkey basis.
2. Quote should be inclusive of materials and consumables for the job.
3. **The total price for the job excluding the staging and destaging job shall be quoted as per part A indicated in the price bid format.**
4. **The quote for the staging and destaging job shall be quoted separately as Part B indicated in the price bid format.**
5. **The L1 shall be determined as per the prices quoted for Part A only.**
6. Quote should be inclusive of all mobilization/transportation charges.
7. Vendor to indicate whether each work/material is quoted/not quoted and the same shall be enclosed with the technical bid.
8. All materials required to undertake the job shall be in vendor’s scope
9. All necessary consumables, tools, special tools, equipments, etc required for undertaking the job shall be under bidder scope. All tools should have proper calibration / test certificate which should be furnished upon demand.
10. Bidders advised to be comprehended of the job scope and studied of the intricacies before submission of the quote.
11. Performance bank guarantee from Scheduled Indian Bank, for an amount of 5% of the order value (Excluding Taxes and duties) to be submitted after successful completion of delivery of materials and completion of installation and commissioning. The PBG’s should be valid till completion of guarantee period plus a grace period of 90 days.
SPECIAL INSTRUCTIONS FOR TWO BID SYSTEMS

1. MODE OF SUBMISSION OF TENDERS

Tenders should be submitted the offers as separate for price bid and technical bid.

2. TECHNO-COMMERCIAL PART SHOULD CONTAIN FOLLOWING DETAILS

I. Drawings & Technical Literature, if any
II. Other conditions, if any
III. Signed and stamped copy of TERMS AND CONDITIONS (Annexure III and IV)
IV. Deviation list, if any
V. Copy of unpriced Price bid (Price bid without price) and Technical data sheet.

3. Price shall be indicated in the format as shown in Annexure- II. Taxes & duties as applicable shall be indicated separately.

4. CSL reserves the right to alter, modify the scope of supply at their discretion.

5. The Techno-commercial part alone will be opened initially on the due date and time of tender. The price part will be opened only after evaluation of the Techno commercial part. Firms will be intimated the date of opening of the price part, whose Techno-commercial bid is acceptable, in due course. However, in view of COVID-19 pandemic, bidders are not allowed entry inside CSL for price bid opening.

6. The Tenderer shall ensure that their Indian Agent is not representing any other suppliers for the same Tender. In other words, Indian Agents are not permitted to represent more than one firm for a particular Tender.

7. Deviations, if any, in the offer submitted from that of the tender enquiry in any form, should be clearly furnished in a separate document titled as “List of Deviations”.

8. Details of optional items, if any, should be indicated under separate heading in the technical bid and the respective price details should be given in the price bid.

9. After submission of quotation / price bid opening, no unsolicited correspondence will be entertained.

10. Clarifications, either technical or commercial, should be submitted to points specially asked for only. The opportunity so given should not be used for correcting/changing/amending the data/conditions already submitted with the tender.

11. Offers should be clear and unambiguous. Incomplete/ambiguous offers are likely to be rejected.
12. The bidder shall submit a signed & sealed copy of the tender document including the TERMS AND CONDITIONS (Annexure III & IV) along with their bid as a token of acceptance of the terms & Conditions.

15. The quantity projected in the scope is estimated. There may be upward/downward variations in actual quantity.

Dy. General. Manager (Ship Repair Materials)
## COMPLIANCE MATRIX
**TO BE SUBMITTED WITH THE “Technical” BID**

<table>
<thead>
<tr>
<th>SNO</th>
<th>DESCRIPTION</th>
<th>REMARK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>ACCEPT THE ENTIRE SCOPE OF SUPPLY AS PER ENQUIRY</td>
<td>YES/NO</td>
</tr>
<tr>
<td>2.</td>
<td>IF THE ANSWER TO QUESTION 1 ABOVE IS NO, PLEASE LIST THE SPECIFIC JOBS NOT BEING UNDERTAKEN AS A DEVIATIONS LIST AND ATTACH WITH THIS MATRIX.</td>
<td>LIST OF DEVIATIONS FROM SCOPE OF WORK ATTACHED/NOT ATTACHED</td>
</tr>
<tr>
<td>3.</td>
<td>ACCEPT THE GENERAL TERMS AND CONDITIONS INDICATED IN THE ENQUIRY.</td>
<td>YES/NO</td>
</tr>
<tr>
<td>4.</td>
<td>IF THE ANSWER TO QUESTION 3 ABOVE IS NO, LIST THE DEVIATIONS AND ATTACH WITH THIS MATRIX.</td>
<td>LIST OF DEVIATIONS FROM GTC.</td>
</tr>
<tr>
<td>5.</td>
<td>PAYMENT TERMS AS INDICATED IN ENQUIRY IS ACCEPTABLE.</td>
<td>YES/NO</td>
</tr>
</tbody>
</table>

(Signature of the Contractor)

Seal of the firm.
Annexure 04

BANK GUARANTEE IN LIEU OF SECURITY DEPOSIT/
WARRANTY GUARANTEE

To
COCHIN SHIPYARD LTD
( GOVT. OF INDIA ENTERPRISE,)
PO BAG No. 1653, PERUMANOOR PO, COCHIN 682 015.

WHEREAS ................. (Name & Address of Supplier) (hereinafter called "the Supplier") has undertaken, in pursuance of Contract ................. No. .................
Dated: ...................... to execute ...................... (Name of Contract and brief description of works) (hereinafter called "the Contract").

AND WHEREAS it has been stipulated by COCHIN SHIPYARD LTD (The Buyer - hereinafter called "CSL") in the said contract that the Supplier shall furnish CSL with a Bank Guarantee for the sum specified therein as security for compliance with the Supplier’s obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier such a Bank Guarantee.

NOW THEREFORE we ................. (Name of the Bank) having its Head Office at ...................... (Address of Head Office) and acting through its branch office at ...................... (Address of the executing branch) (hereinafter called "the Bank") hereby affirm that we are the Guarantor and responsible to CSL, on behalf of the Supplier up to a total of ...................... (amount of Guarantee) ...................... in words).

We, the bank, hereby irrevocably undertake to pay you any amount not exceeding in total the Guarantee Amount upon receipt by us of your demand in writing accompanied by the following documents:

1. Your signed statement certifying that the Supplier is in breach of his obligation(s) under the Contract and the respect in which the Supplier is in breach.

2. Your signed statement certifying that the Supplier has been given a prior written notice by email from you to make good the aforesaid breach and that the Supplier still failed to fulfill the Contract within 30 days of such notice. A copy of such notice given by email to the Supplier shall be attached to the demand for payment.

Any demand for payment should contain your authorized signatures which must be authorized by your bankers or by a notary public.

We, the Bank, further agree that no change or addition to or other modification of the terms of the Contract or of the Works to be performed there under or of any of the Contract documents which may be made between CSL and the Supplier shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification. We, the Bank, further agree that any change in the constitution of the said contractor or the said bank shall not discharge our liability hereunder.

22.1
Notwithstanding anything contained herein:

1. Our liability under this Bank Guarantee shall not exceed ................................................................. only).

2. This Bank Guarantee shall be valid up to (date) and

3. We are liable to pay the guaranteed amount or any part thereof under this bank guarantee only and only if CSL serve upon us a written claim or demand on or before ...........................................(validity date).

Any demand for payment under this guarantee must be received by us at this office during working hours on or before the validity date. Should we receive no claim from you by the validity date, our liability to you will cease and the guarantee will definitely become null and void whether returned to us or not.

Yours truly,
Signature and seal of the
Guarantor: .................................................................

Name of
Bank: .............................................................................

Address: .............................................................................

Date:............................

[II] An amount shall be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract and denominated in respective Dollars / Indian Rupees/Other Currency.
Health, Safety & Environment Contract Guidelines for External vendors

Introduction

CSL is the largest public sector shipyard in India in terms of dock capacity, and caters to clients engaged in the defence sector in India and clients engaged in the commercial sector worldwide.

CSL is committed to provide safe and healthy working environment for the prevention of work-related injury and ill health by following the best practices in safety. CSL is certified Occupational Health and Safety Management System and Environmental Management system under ISO standards/international standard.

Some of the manufacturing activities are carried out by external vendors outside the CSL Campus to meet our business requirements. This guide is prepared to facilitate a safe work environment during the execution of such jobs by the vendors happening outside the CSL campus.

CSL shall exercise the controls to ensure the basic requirements of HSE Management System are met by the external vendors at their work sites. This guide is prepared to facilitate safe work environment during execution of such contract works. The General HSE guide lines are given below for compliance at their work site.

The External vendors shall ensure the following at their work place:-

1. Safety procedures to be followed in their process to be prepared and are vetted by CSL. The safety procedures are to be communicated to all concerned workmen.
2. List of PPEs for the various activities are defined and PPEs are being used by employees. 
3. Competence levels of the workmen to be assigned for the various categories of work are defined and only competent / trained employees are employed. Key list of personnel to be available at the shop floor to monitor the same.
4. First Aid Boxes with adequate medicines are available and at least one first aid trained person is available in the unit during all working hours.
5. Adequate firefighting equipment’s are available and are periodically tested. Employees are trained to use the firefighting equipment’s.
6. Adequate ventilation and lighting is provided in the unit.
7. Housekeeping and waste disposal are given due attention always.
8. Walkways are always clear at all times.
9. Safety audit along with CSL safety officer is carried out once in 12 months as per the audit plan and corrective/preventive actions are completed at the earliest.
10. All statutory regulations are complied with (Factories Act, IE Rules, and Pollution Control etc) and records are to be made available.
11. Ensure all lifting equipment’s/pressure vessels are tested every year by external party and all hand tools by internal party.
12. External vendors certified OHSAS 18001 / ISO 45001 are required to submit their valid certification to CSL and the above requirements are not applicable.
Health, Safety & Environment Contract Guidelines for OEMs/Turnkey jobs/Sub contract works inside CSL

Introduction

CSL is the largest public sector shipyard in India in terms of dock capacity, and caters to clients engaged in the defence sector in India and clients engaged in the commercial sector worldwide.

CSL is committed to provide safe and healthy work environment for the prevention of work-related injury and ill health by following the best practices in safety. CSL is certified Occupational Health and Safety Management System and Environmental Management system under ISO standards/international standard.

Many of the works of CSL at various sites are executed by the sub-contractors. During these works, sub-contractors personnel are likely to be exposed to different types of hazards. Similarly, unsafe acts of contractors personnel may create hazards for CSL staff or workmen of other contractors working at the site. Such unsafe acts may also pose danger to the existing installations and even to members of public.

CSL ensures that the requirements of its HSE Management System are convened by contractors and their workers. This guide is prepared to facilitate safe working during execution of contract works. The General guidelines and HSE requirements are given below for compliance in CSL.

1. General guidelines

1. OEMs/Turnkey jobs /Contractors are selected to work inside the CSL based on their track record.

2. Along with the contract order/Registration, a copy of the HSE Safety Handbook (CSL/ QMS/S&F/SOP 02) of CSL is given to all contractors. The details of all HSE requirements to be followed in CSL for the various types of work are detailed in the handbook. The OEMs/Turnkey jobs /Contractors shall go through all the details and strictly follow the relevant HSE guidelines for their work. In case of any doubt the same shall be clarified from Chief Safety Officer (CSO). Being ignorant of these HSE requirements will not be treated as an excuse for any HSE violations during course of work.

3. OEMs/Turnkey jobs /Contractors workmen are given a multilingual HSE induction and Emergency Response training. The individual passes for contractors and their workers are issued only after successful completion of this training. The passes are revalidated every year after successful completion of refresher training. Training requirements of other roles of the subcontractor's staff shall be complied as per the CSL requirements time to time.

4. Before start of any work, the CSL officer in charge explains the scope of work and the safety precautions, hazards, PPE usage as per PPE matrix of CSL, Work Instructions, SOPs, Emergency responses to the contractor and his workers. Only trained worker with necessary skills are allowed to work as per the requirement. Necessary PPEs for the work are to be arranged by the contractor.
5. Workmen shall have Cotton coverall with identifiable logo on the dress. Supervisors, fire watch man if required, safety staff and other workforce shall be deployed as per CSL guidelines.

6. The site work supervisor of the OEM s/Turnkey jobs /Contractors shall be ensured that works are being carried out by CSL HSE requirements on daily basis and till the completion of works. The safe start and safe end requirements shall be verified by the site work supervisor on daily basis.

7. OEM s/Turnkey jobs /Contractors HSE performance will be evaluated on HSE matters as per the CSL policies time to time.

8. During the course of work if any HSE violation is noticed the same is dealt as per the Rewards and Reprimand (R&R) Policy of CSL.

II. HSE requirements

1. The OEM s/Turnkey jobs /Contractors shall take all safety precautions during the execution of awarded work and shall maintain and leave the site safe at all times. At the end of each working day and at all times when the work is temporarily suspended, he shall ensure that all materials, equipment and facilities will not, cause damage to existing property, personal injury or interfere with the other works of the project or Station.

2. The OEM s/Turnkey jobs /Contractors shall provide and maintain all type of lights, guards, fencing, warning signs, caution boards and other safety measures for vigilance as and where necessary or as required by the CSL officer-in-charge or Safety staff. The caution boards shall also have appropriate symbols.

3. Where Permit to work (PTW) is required, the work has not started without obtaining the necessary permit and the PTW requirements are followed strictly throughout the work.

4. For Project specific or non-routine work on the existing installations, separate Job Safety Assessment (JSA) is to be prepared by the contractor, cleared by the Dept in charge and approval obtained from CSO before start of work.

5. A separate HSE plan will be required for the new projects in the yard or any turnkey projects. It shall be in line with CSL HSE requirements and same shall be routed through respective S&F dept and approved by respective HOD.

6. OEM s/Turnkey jobs /Contractors shall hold toolbox talks with his workers on daily basis to convey matters regarding the Safety aspects of the work.

7. The OEM s/Turnkey jobs /Contractors shall plan his operations so as to avoid interference with other Departmental works and other Sub-Contractors at the site. In case of any interference, requires, coordination shall be sought by the contractor from the Department for safe and smooth execution of work. This shall be done through CSL executing officer.

8. The OEM s/Turnkey jobs /Contractors shall at all times keep their work spot, site office and surroundings clean and tidy from rubbish, scrap, surplus materials and unwanted tools and equipment. Welding cables, hoses and electrical cables shall be so routed as to allow safe way to all concerned.
9. All waste generated in course of the work shall be segregated as per the yard requirements and shall be disposed at the respective collection pallets / points of the work areas as the case may be. Any kind of pollution made by the subcontractor shall attract the reprimand proceedings.

10. All necessary precautions shall be taken to prevent outbreak of fires at the work site. Adequate provisions shall be made to prevent the possibility of fires and ensure the availability of fire extinguishers at site.

11. The OEMs/Turnkey jobs /Contractors shall be held responsible for non-compliance of any of the safety measures and delays, implications, injuries, fatalities and compensation arising out of such situations of incidents including statutory obligations.