

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP:RASULGARH,
BHUBANESWAR-751010

TENDER DOCUMENT FOR

“SUPPLY OF FABRICATED M.S. GIRDERS FOR BRIDGE CASTING IN DEO IRRIGATION PROJECT”.

The Tender document comprises of the following:

1)	TCN No. OCC/CWS/PROC/01 (V-II)/03 /21-22 Dated 15.04.2021	01 (One) sheet
2)	Terms & Conditions	02 (Two) sheets
3)	Technical Specification	01 (One) sheet
4)	Scope of Works	01 (One) sheet
5)	Price Schedule	01 (One) sheet
6)	Drawing	01 (One) sheet
----- Total :		07 (Seven) sheets -----

Signature of the Tenderer or his/their
Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010

ODISHA CONSTRUCTION CORPORATION LIMITED
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH, BHUBANESWAR-751010

TENDER CALL NOTICE No. OCC/CWS/PROC/01(V-II)/ 03 /21-22 Dtd.15.04.2021

Sealed tenders are invited from reputed fabricators / workshop owner/ SSI / NSIC / MSME Units or equivalent suppliers from the state of Odisha for “**SUPPLY OF FABRICATED M.S. GIRDERS FOR BRIDGE CASTING IN DEO IRRIGATION PROJECT**” as per detailed specification and drawing enclosed .

Cost of tender document (Non-refundable)	Sale of tender Document		Receipt of tender	Opening of tender
Rs.6000/- plus GST @ 18% Rs.7080/- by hand & Rs.7180/- by Regd. Post/ courier.	From 15.04.2021	To 20.04.2021 up to 01.00 PM	Up to 03.30 PM on 20.04.2021	At 04.00 PM on 20.04.2021

The tender shall accompany with Valid GST registration certificate & PAN Card. The rates quoted shall be made at worksite of the Supplier. The Tender is to be duly sealed in closed covers and superscribed as “**SUPPLY OF FABRICATED M.S. GIRDERS FOR BRIDGE CASTING IN DEO IRRIGATION PROJECT**” due on **20.04.2021** to be addressed to the undersigned.

1. The tender document may be purchased from the office of the Senior Manager (Mech.)-I, Odisha Construction Corporation Ltd., Central Workshop, Rasulgarh, Bhubaneswar-751010 during office hours from **15.04.2021** to **20.04.2021** up to **1.00 PM** of **20.04.2021** on payment of non-refundable cost of Tender document as indicated in the table above in shape of Cash/Demand Draft drawn on any nationalized/scheduled bank payable at Bhubaneswar only in favour of M/s Odisha Construction Corporation Ltd.-Project Account. Interested Tenderers may obtain further information, if any, from the undersigned.
2. The tender document may be downloaded from OCCL website www.odishaconstruction.com or Govt. of Odisha website www.tendersodisha.gov.in and non-refundable cost of Tender document amounting to **Rs.7080/-** (Rupees seven thousand eighty) only inclusive of GST @ 18% in shape of Account Payee Demand Draft drawn on any nationalized/scheduled bank payable at Bhubaneswar only in favour of M/s Odisha Construction Corporation Ltd.-Project Account may be deposited along with the Tender.
3. The tenders must be submitted to the Senior Manager(Mech.)-I, Odisha Construction Corporation Ltd., Central Workshop, Rasulgarh, Bhubaneswar-751010 (Odisha) on or before **3.30PM** on **20.04.2021** and will be opened on **20.04.2021** at **4.00 PM** in the presence of the Tenderers, who may like to be present. If there will be a public holiday on the last date of sale of Tender document and receipt & opening of the Tenders as specified above, the Tender document will be sold and Tenders will be received & opened on the next working day at the same time and venue.

The SSI/NSIC/MSME units participating in tender are not entitled for exemption from payment of EMD/ Security Deposits/ Tender Paper costs as communicated vide DOWR Letter No. IIM-24/2018-14318/WR dated 24.05.2018 & Head Office, OCCL Letter No.5502/OCC/ CW-02/09(Vol-V)(WE) dated 30.05.2018

The tenders will be opened in the presence of the tenderers or their authorised representatives. Tender through Fax/Telex/telegram/e-mail will not be accepted

The undersigned reserves the right to accept or reject any or all quotations without assigning any reason thereof.

Signature of the Tenderer or his/their
Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010

ODISHA CONSTRUCTION CORPORATION LTD.
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH,
BHUBANESWAR-751010 (ODISHA)

TERMS AND CONDITIONS OF TENDER FOR

“SUPPLY OF FABRICATED M.S. GIRDERS FOR BRIDGE CASTING IN DEO IRRIGATION PROJECT”

1. Reputed fabricators / workshop owner/ SSI / NSIC / MSME Units or equivalent suppliers from the state of Odisha having supplied similar items of similar magnitude earlier and satisfactorily accepted by the clients will be eligible to participate in the tender. The copies of purchase orders, credentials, certificates etc. in support of similar supply and satisfactory performance thereof will be furnished along with the tender.
2. Tender should be submitted in two bid system in two separate sealed covers and both will be submitted in a single sealed outer cover subscribing in bold letters as **“SUPPLY OF FABRICATED M.S. GIRDERS FOR BRIDGE CASTING IN DEO IRRIGATION PROJECT”** and also the date of opening of tender. The name and address of the tenderer should not be written on outer cover. Only the name and address of the purchaser should be written on the outer cover.
3.
 - i) The first envelope super scribing in bold letters as **“TECHNICAL BID”** should contain the following:
 - a. Attested copy of valid GST registration certificates. The Tenderer will mention his GSTIN in his tender clearly without which the tender will not be taken into consideration.
 - b. Attested copy of PAN Card.
 - c. Attested copies of purchase orders, credentials, certificates in support of similar supply and magnitude and satisfactory performance thereof.
 - d. Complete tender document in original including terms and conditions but without detailed specifications and price schedule duly signed on each page by the tenderer or his power of attorney holder. In case of power of attorney holder, the attested copy of power of attorney should be furnished.
 - ii) Second envelope subscribing in bold letters **“SPECIFICATION AND PRICE SCHEDULE”** should contain detailed specifications and price schedule in original only duly filled in without leaving any column and line blank and signed on each page by the tenderer or his power of attorney holder.
4. The tender document can also be downloaded from our Website www.odishaconstruction.com to submit the tender. However, the cost of tender document i.e. **Rs.6000/-** plus GST @ 18% amounting to **Rs.7080/-** in shape of A/c payee demand draft as stated above in favour of “Odisha Construction Corporation Limited- Project Account” on any Nationalised Bank/ Scheduled Bank payable at Bhubaneswar (Non-refundable) along with attested photo copies of all above documents should be submitted while submitting the Tender in Envelope-I. Otherwise, the Tender will be cancelled. OCCL will not be responsible for missing of any page while downloading. If there will be a public holiday on the last date of sale of Tender document and receipt & opening of the Tender as specified above, the Tender document will be sold and tender will be received & opened on the next working day at the same time and venue.

Signature of the Tenderer agency or
His/their Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-10.

5. The tender will be received up to **3.30 PM** on **20.04.2021** and will be opened in the office of the undersigned on the same day at **4.00 PM** in presence of the tenderer or their authorized representatives, if they so desire.
6. The undersigned will not be responsible for any kind of delay by the postal/courier authorities.
7. The materials will be guaranteed by the supplier against any defect for a period of 18 months from the date of supply or 12 months from the date of use, whichever is earlier. Guarantee certificate in this regard will accompany with supply of materials. If any defect is found in the materials within the guarantee period, the same will have to be replaced free of cost by the supplier within a suitable time fixed by the purchaser.
8. The tenderer should quote appropriate taxes with the offer.
9. 90% payment will be made within 30 (Thirty) days of receipt, verification and acceptance of the complete materials along with bill, test certificate, guarantee certificate and other documents. Balance 10% will be released after 60 days from the date of receipt of materials.
10. Price escalation will not be allowed under any circumstances. The quoted rates will remain firm till execution of the work order.
11. The validity of the offer should be for a period of 30 (thirty) days from the date of opening of the Tender.
12. The complete ordered quantity is to be supplied within 25 (Twenty five) days from the date of issue of the purchase order, failing which the order is liable for cancellation without assigning any reason thereof by the purchaser. In case of cancellation of the order the EMD will be forfeited. In case of any delay in supply of materials beyond the delivery schedule, supplier shall be liable to pay L.D. @ 0.5% (Half percent) of the total ordered value per week of delay or part thereof subject to maximum of 5% (Five percent) of the total ordered value. Thereafter, the order may be cancelled with the discretion of purchaser.
13. Conditional offers with deviations will not be accepted. Those, who do not agree to the terms and conditions regarding payments, delivery and others, need not quote.
14. The authority reserves the right to accept/reject any or all tenders without assigning any reason thereof.
15. Tender through fax/telex/telegram/e-mail will not be accepted.
16. The fabricated materials shall be supplied by the supplier as per drawings provided the Corporation time to time.
17. Pre-Delivery inspection (PDI) shall be made before dispatch of fabricated materials at Job workers works by the authorized representative or Engineer-in-Charge for which the Job Worker should intimated in writing for 03 (three) days in advance regarding readiness for PDI.
18. The Job worker have to complete the Job in time as stipulated by the Corporation.
19. The Jobs shall be delivered after weighment of each unit.
20. The successful bidder shall submit bank guarantee of amount equivalent to the value of materials supplied by OCCL after issue of purchase order valid till completion of work.
21. Any dispute arising out of this tender or order thereof is to be settled in proper court under the jurisdiction of Odisha High Court at Cuttack or courts under the jurisdiction of Odisha High Court at Bhubaneswar only.

Signature of the Tenderer agency or
His/their Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-10.

SCOPE OF WORKS

SCOPE OF OCCL

Supply of required M.S. Plate at the works of the Job Workers and transportation of fabricated product from Job Worker's work site to Central Workshop, Rasulgarh, Bhubaneswar-10 shall be arranged by OCCL .

SCOPE OF SUPPLIER

Besides required M.S. Plate and structural steel all others materials like welding machine , welding accessories , all consumables like Electrodes, Gas, should be used by the supplier at his own cost.

Signature of the Tenderer agency or
His/their Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-10.

TECHNICAL SPECIFICATIONS

All fabrication works shall be done as per the followings :

- (a) Approved drawings to be issued by "Engineer-in-Charge" from time to time
- (b) Technical specifications to be issued by "Engineer-in-Charge" from time to time
- (c) Relevant standards of BIS and other National/International bodies
- (d) Directions issued by "Engineer-in-Charge" from time to time

Details of specification of welding

- 1) Submerged Arc welding : IS : 7280 – 1974
- 2) Electrodes for Manual metal Arc welding : IS : 814-1981
- 3) Glossary of terms of welding & cutting of metal : IS : 812-1957
- 4) Code of Practice for Metal Arch welding : IS : 816 - 1989
- 5) Code of Practice for inspection of Welds : IS : 822-1970
- 6) Code of Practice for use of Welding of bridges : IS : 1024-1979
- 7) Dimensions for channels, for angles etc. : IS : 808 – 1989
- 8) Dimensions for steel plate, sheets, flats etc. : IS : 1730-1989
- 9) Rolling cutting tolerances for Hot rolled steel product : IS : 1852-1973
- 10) Steel for general st. purposes : IS : 2062-1992
- 11) Hot rolled rivet bars (upto 40 mmdia) for structural purpose : IS : 1145-1982
- 12) Hot forged steel rivet for Hot closing upto 6-16mm dia : IS : 2155-1982
- 13) Turned & fitted bolts : IS : 3640
- 14) Black bolts : IS : 1363
- 15) Acceptance test for flux combination for submerged arc welding : IS : 3613-1974
- 16) Bare wire electrodes for

Notes

- i) All dimensions are shown in mm
- ii) Submerged arc welding should be employed for fillet welds in flanges to web other welds should also be done by submerged arc welding to the maximum extent possible.
- iii) All welds to be made by using approved welding procedure and by qualified welder only (IS-9595)
- iv) Ends stiffener shall be connected with web by 10 mm fillet weld all around
- v) All intermediate stiffeners shall be welded only to the web and not with the flanges
- vi) Shear connectors should be welded to the top flange cover plate at the location of splice
- vii) No pre camber need to be provided at the time of fabrication
- viii) Actual measurement which exists at site shall be measured before fabricating steel girder

In case of any conflict, the decision of "Engineer-in-Charge" shall be final and binding on the "Job-worker".

Signature of the Tenderer agency or
His/their Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-10.

TO BE FURNISHED IN ORIGINAL

ODISHA CONSTRUCTION CORPORATION LTD,
(A GOVT. OF ODISHA UNDERTAKING)
CENTRAL WORKSHOP, RASULGARH, BHUBANESWAR-10 (ODISHA)

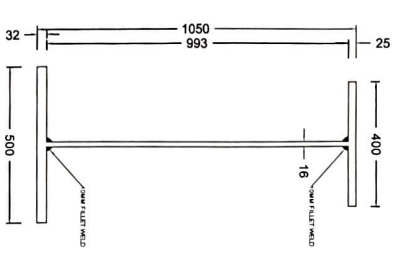
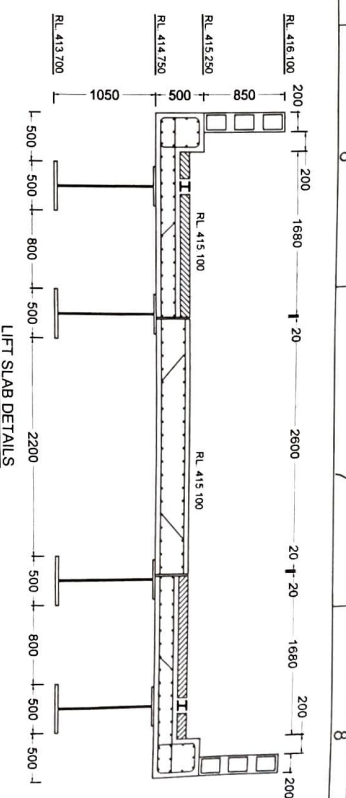
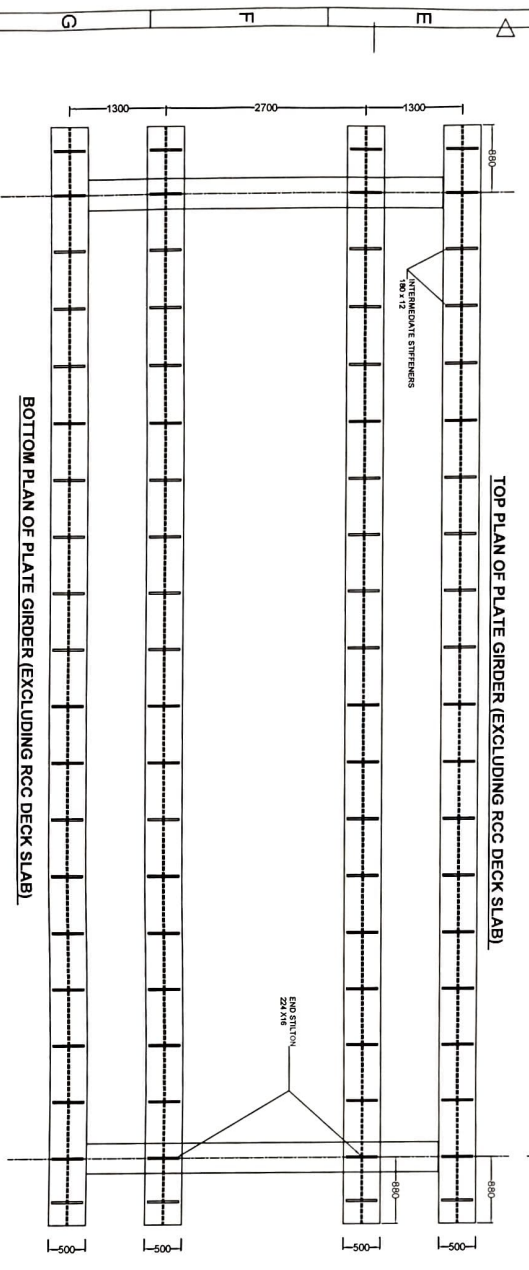
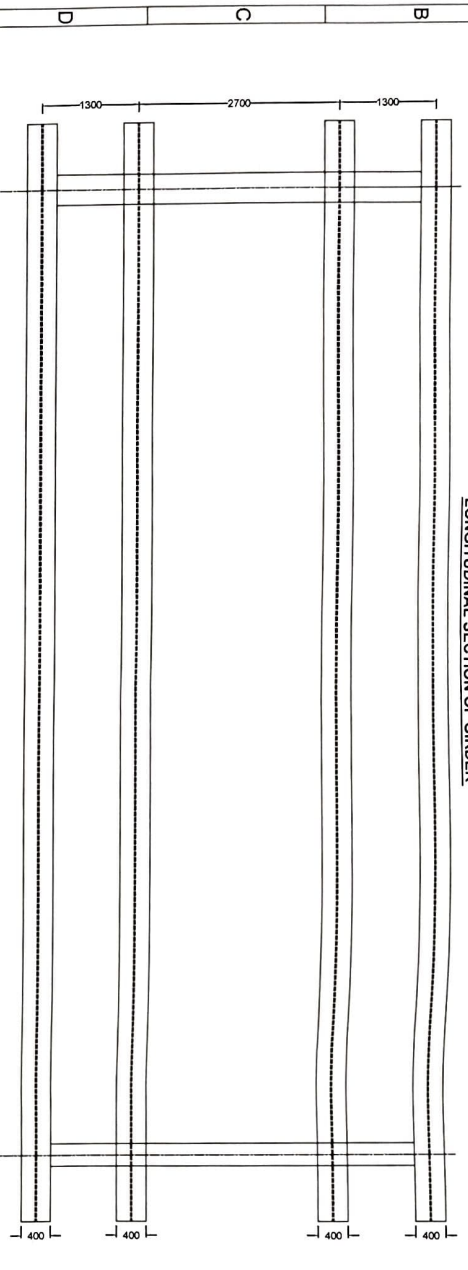
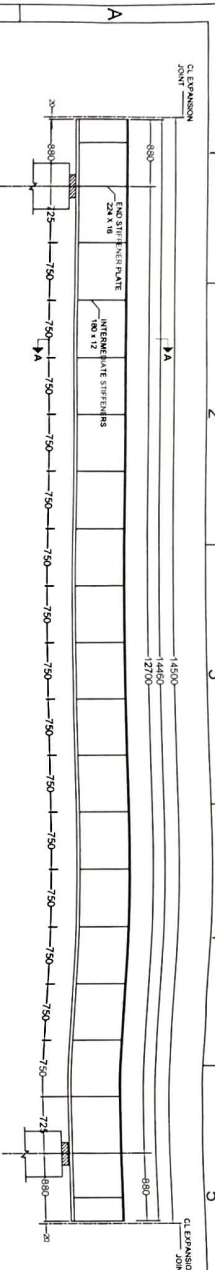
“SUPPLY OF FABRICATED M.S. GIRDERS FOR BRIDGE CASTING IN DEO IRRIGATION PROJECT” vide Tender call notice No. OCC/CWS/PROC./01(V-II)/03/ 2021-22 dated 15.04.2021”. Due on 20.4.2021.

Sl. No.	Description of item	Unit	Total Required quantity	Rate per Unit	GST	Amount for full quantity
1	M.S. Plate Girders for spillway bridge casting.	MT	128.5			

N. B. : The Jobs shall be delivered after weighthment of each unit.

Signature of the Tenderer or his/their
Power of attorney holder
with designation & seal.

Senior Manager (Mech.)-I
OCC Ltd, Central Workshop,
Rasulgarh, Bhubaneswar-751010



- ACCEPTANCE TEST FOR FLUX COMBINATION FOR BARE WIRE ELECTRODES FOR**
- | | |
|--------------|---|
| IS 7280-1974 | SUBMERGED ARC WELDING |
| IS 714-1981 | ELECTRODES FOR MANUAL METAL ARC WELDING |
| IS 816-1988 | COEFFICIENT OF THERMAL EXPANSION OF METAL |
| IS 816-1988 | CODE OF PRACTICE FOR METAL ARC WELDING |
| IS 822-1970 | CODE OF PRACTICE FOR INSPECTION OF WELDS |
| IS 804-1989 | DIMENSIONS FOR CHANNELS, ANGLES ETC |
| IS 804-1989 | DIMENSIONS FOR STEEL PLATE SHEETS, FLATS ETC |
| IS 1738-1989 | ROLLED STEEL PRODUCT |
| IS 1452-1973 | STEEL FOR GENERAL STR. PURPOSES |
| IS 2062-1982 | SP. ROLLED STEEL PRODUCTS FOR 40MM DIA. FOR |
| IS 1145-1982 | HOT FORGED STEEL SHEET FOR HOT CLOSING |
| IS 2155-1982 | SP. ROLLED STEEL PRODUCTS FOR 40MM DIA. FOR |
| IS 1300 | BLACK BOLTS |
| IS 1300 | BLACK BOLTS |
| IS 5013-1974 | ACCEPTANCE TEST FOR FLUX COMBINATION FOR BARE WIRE ELECTRODES FOR |

NOTE:
 1. ALL DIMENSIONS ARE SHOWN IN MM
 2. THE DESIGN IS BASED ON WITH THE STANDARD SPECIFICATION AND CODE OF PRACTICE FOR ROAD BRIDGE
 3. SUBMERGED ARC WELDING SHOULD BE EMPLOYED FOR FILLET WELDS IN FLANGES TO WEB OTHER WELDS SHOULD ALSO BE DONE BY SUBMERGED ARC WELDING TO THE
 4. DESIGN IS SUITABLE FOR IRC 6 LOADING FOR CLASS A SINGLE LANE LOADING
 5. ALL WELDS TO BE MADE BY USING APPROVED WELDING PROCEDURE AND BY QUALIFIED
 6. END STIFFENERS SHALL BE CONNECTED WITH WEB BY 10MM FILLET WELD ALL AROUND
 7. ALL INTERMEDIATE STIFFENERS SHALL BE WELDED ONLY TO THE WEB AND NOT WITH THE
 8. SHEAR CONNECTORS SHOULD BE WELDED TO THE TOP FLANGE COVER PLATE AT THE
 9. LOCATION OF SPURGE
 10. FOLLOWING PROPERTIES HAVE BEEN ASSUMED FOR STRUCTURAL STEEL
 11. YOUNG'S MODULUS = 211 x 100,000 MPA
 12. SHEAR MODULUS = 77,000 MPA
 13. COEFF. OF THERMAL EXPANSION = 0.0000117 C./UNIT LENGTH
 14. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 15. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 16. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 17. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 18. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 19. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 20. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 21. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 22. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 23. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 24. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 25. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 26. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 27. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 28. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 29. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 30. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 31. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 32. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 33. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 34. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 35. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 36. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 37. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 38. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 39. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 40. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 41. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 42. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 43. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 44. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 45. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 46. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 47. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 48. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 49. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 50. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 51. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 52. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 53. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 54. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 55. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 56. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 57. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 58. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 59. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 60. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 61. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 62. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 63. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 64. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 65. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 66. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 67. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 68. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 69. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 70. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 71. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 72. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 73. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 74. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 75. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 76. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 77. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 78. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 79. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 80. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 81. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 82. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 83. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 84. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 85. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 86. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 87. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 88. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 89. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 90. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 91. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 92. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 93. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 94. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 95. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 96. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 97. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 98. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 99. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30
 100. GRADE OF CONCRETE FOR DECK SLAB IS M30 & FOR PFCSTEEL M30

**DEPARTMENT OF WATER RESOURCES,
GOVERNMENT OF ODISHA**

**DEO IRRIGATION PROJECT KARANJIA,
MAYURBHANJ**

**ORISSA CONSTRUCTION CORPORATION
LIMITED BHUBANESWAR**

CEM Engineers & Consultants (P) Limited
 Office : 44/A, Sahad Nagar,
 Bhubaneswar-751007, Odisha
 E-mail : cemengcon@gmail.com

PROJECT
 SPLLWAY BRIDGE

DETAILS OF PLATE GIRDERS

TITLE	SCALE	DATE	DRAWING NO.	GEW/OCC/SB/GIRDER / 01
		12.04.2021		0

CONSTRUCTION

CONSULTANT

DRAWN BY: _____ **CHECKED BY:** _____ **APPROVED BY:** _____

NATURE OF REVISION & DESCRIPTION

CHECKED	DRAWN	REV.	DATE