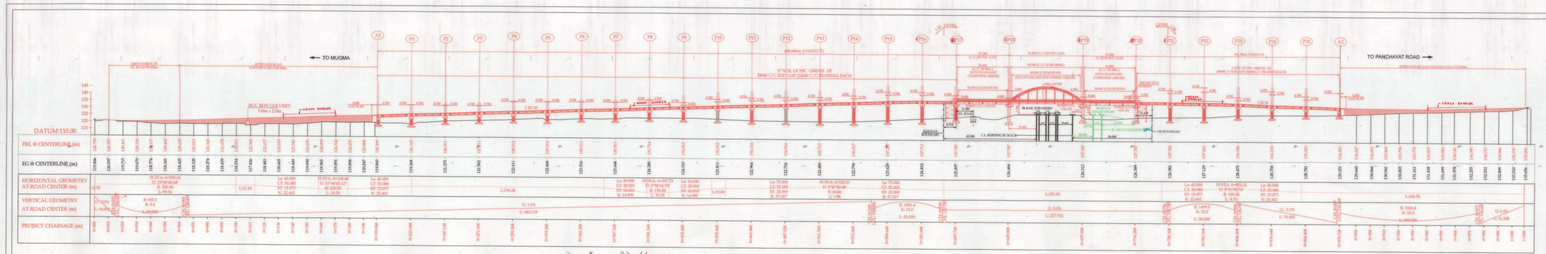
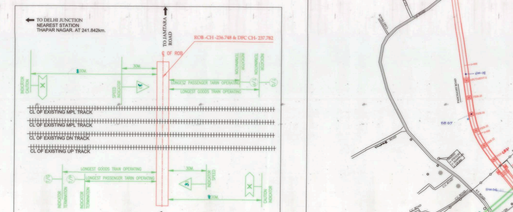
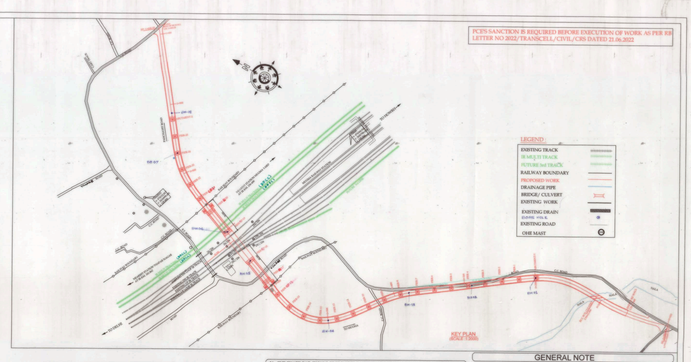
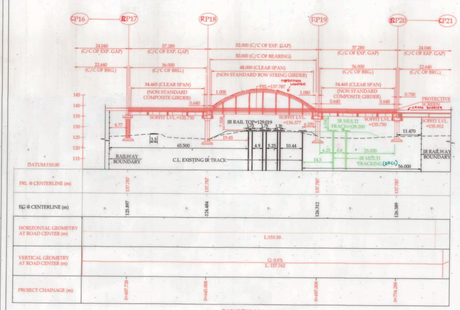
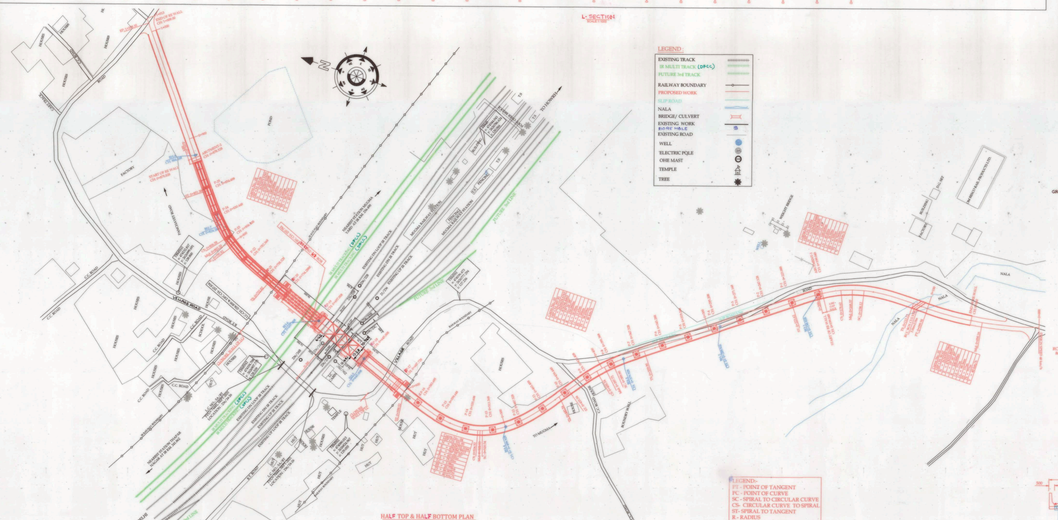
PCE'S SANCTION IS REQUIRED BEFORE EXECUTION OF WORK AS PER EIR LETTER NO 3022/TRANSCELL/CIVIL/CRS DATED 21.06.2022

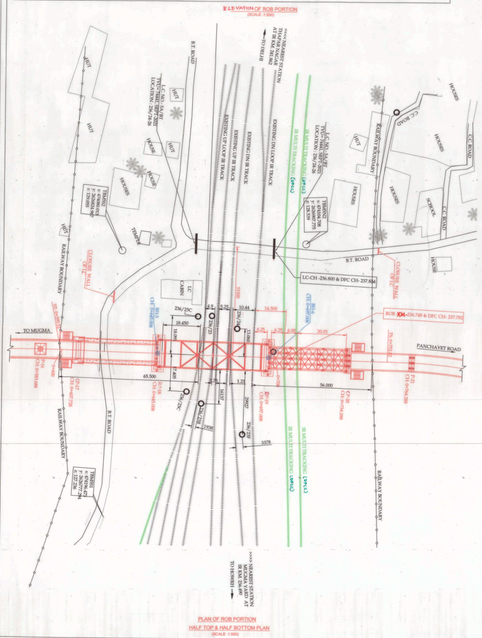


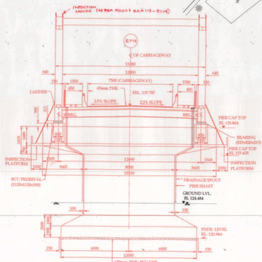


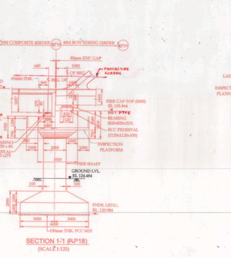


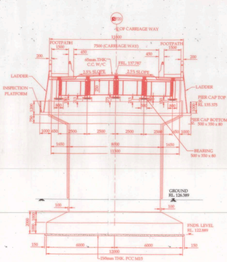


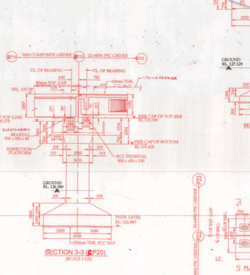


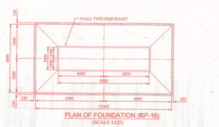


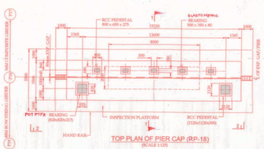


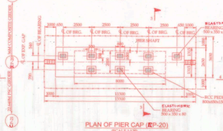


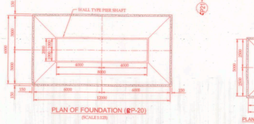


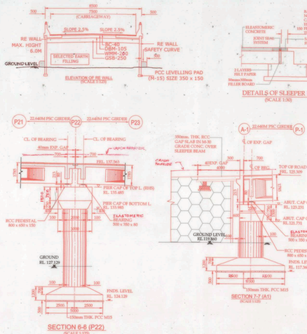


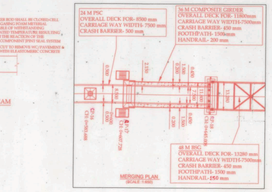


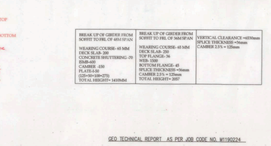












GENERAL NOTE

1. ALL DIMENSIONS ARE IN MM AND LEVELS ARE IN METERS UNLESS OTHERWISE SPECIFIED.
2. DIMENSIONS ARE NOT TO BE SCALED ONLY WRITTEN DIMENSION ARE TO BE FOLLOWED.
3. GENERAL DESCRIPTION OF BRIDGE:- MODERATE.
4. RIDING SURFACE: 10.75MM GRADE BITUMEN MACADAM (BM) OF 50MM THICKNESS.
5. BASIC WIND SPEED TAKEN :- 39m/s
6. BEARING SHALL BE PROVIDED AS PER IRSBC-83-09 (NOV. 2020).
7. ALL THE CHAINAGES AND LEVELS GIVEN IN THIS DRAWING MUST BE RECONCILED AT SITE BEFORE START OF CONSTRUCTION BY AGENCIES.
8. ALL DIMENSIONS OF PRESTRESSED MEMBERS ARE TENTATIVE, IT WILL BE FINALIZED AFTER FINAL DESIGN CALCULATION.
9. STANDARD OF LOADING :- AS PER RC - 6307
   i. LOAD OF CLASS A
   ii. SPECIAL VEHICLE (SV)
   WITH CONGESTION FACTOR WHICHEVER GOVERNS
10. DETECTION SCHEMES SHALL BE PROVIDED OVER ROB AS PER IR STANDARD SPECIFICATIONS.
11. DRAINAGE ARRANGEMENT IN RAILWAY PORTION SHALL BE PROVIDED ADEQUATE AS PER RAILWAY REQUIREMENT.
12. SUPERSTRUCTURE, PLASTERING AND PROTECTION LAYER SHALL BE EXECUTED BY ENGAGING PROPER EXPERIENCED AGENCY AFTER APPROVAL BY COMPETENT AUTHORITY.
13. SLIDING PLATE SHALL BE PROVIDED FROM TRACK SIDE TO ALLOW THE LENGTH AS PER LATEST PROVISION OF IRS C-7.
14. ALL WORKS SHALL BE EXECUTED AS PER THE DRAWINGS APPROVED BY COMPETENT AUTHORITY AND AS PER THE GEOTECHNICAL REPORT. IF IT IS FOUND THAT PILING SOIL IMPROVEMENT TECHNIQUES TO BE EMPLOYED TO BRING THE BEARING CAPACITY EQUAL TO THE DESIGN VALUE, THE SAME SHALL BE DONE ACCORDINGLY.
15. TYPE OF WORK - CONCRETE, MASONRY, STEEL WORK ETC.
16. QUALITY CONTROL AND SAFETY PRECAUTIONS AND MEASURES TO BE OBSERVED DURING EXECUTION OF WORK.
17. LATEST SOD PROVISION SHOULD BE TAKEN CARE BY FIELD UNIT BEFORE EXECUTION OF WORK.
18. METHODOLOGY OF WORK NEAR THE TRACK SHOULD BE APPROVED BY THE COMPETENT AUTHORITY.
19. SKEW ANGLE OF GIRDER WILL BE DULY CONSIDERED IN DESIGN OF SUBSTRUCTURE AND BEARINGS.
20. NECESSARY PROVISIONS TO BE KEPT IN ESTIMATE FOR ELECTRICAL DEPT & S & T DEPT. FOR SHIFTING OF ELECTRIC POLE, SIGNAL CABLE, OHE MAST, CLEVIT LINES WITH POLE ETC., IF REQUIRED.
21. THE PROPOSED CONTRACTOR IN ORDER TO ENSURE ADEQUATE MEASURES TO AVOID ANY ACCIDENT DURING CONSTRUCTION SHALL ENGAGE A SAFETY OFFICER AS PER CLAUSE 14.3 OF IRC: 112-2011.
22. REINFORCEMENT BARS SHALL BE H.S.D STEEL OF GRADE Fe 500/HYSD CONFORMED TO IS:1786-2008.
23. STRUCTURAL STEEL WILL BE OF E350 BO(W) - 3W (ZESS).
24. DESIGN OF SUPERSTRUCTURE SHALL BE CARRIED OUT FOR DYNAMIC IMPACT LOAD AS PER PROVISION OF ACTUAL SPEED AS CALCULATED, I.R.S.B.C OR IRS BRIDGE RULES 2020.
25. DETAILED DESIGN OF NON STAND-ARD (SUPER STRUCTURE & SUB-STRUCTURE) SHALL BE SUBMITTED TO RDSO/CHIEF ENGINEER (NAT) VETTED BY RITES OR ANY OTHER AGENCY AS PER COMPETENT AUTHORITY.
26. CONCRETE OF GRADE M40 AND ABOVE SHALL BE USED IN PRESTRESSED CONCRETE.
27. CONCRETE OF GRADE M30 AND ABOVE SHALL BE USED IN REINFORCED CONCRETE.
28. CONCRETE OF GRADE M25 AND ABOVE SHALL BE USED IN PLAIN CONCRETE.
29. CONCRETE OF GRADE M20 AND ABOVE SHALL BE USED IN FOOTINGS.
30. CONCRETE OF GRADE M15 AND ABOVE SHALL BE USED IN PEDESTALS.
31. CONCRETE OF GRADE M10 AND ABOVE SHALL BE USED IN LEVELLING COURSE.
32. CONCRETE OF GRADE M7.5 AND ABOVE SHALL BE USED IN FILLING.
33. THE GUARD RAIL SHOULD BE PROVIDED IN THE TRACK NEAR ISOLATED PIER/ ABUTMENT OF ROB AS PER PROVISION CONTAINED IN PARA 12B OF IRSBC-83-09.
34. DURING EXECUTION OF THE WORK, ENGINEERS WILL BE RESPONSIBLE TO ENSURE, CONSTRUCTION OF ROB ACROSS EXISTING RAILWAY TRACK UNDER CONSIDERATION OF SITE AND METHOD OF EXECUTION.
35. FACTOR WORK FOR CONCRETE STRUCTURE TO BE DONE AS PER IS-14687.
36. ERECTION DRAWING SHOULD BE PREPARED FOR ERECTION SCHEME OF GIRDER AND GOT APPROVED BY THE COMPETENT AUTHORITIES.
37. DESIGN OF ELASTOMERIC BEARING TO BE PREPARED AND GOT IT APPROVED BY COMPETENT AUTHORITIES BEFORE EXECUTION OF WORKS.
38. SUITABLE UTILITY DUCTS IF REQUIRED SHOULD BE PROVIDED BELOW FOOTPATH SLAB AT THE TIME OF CONSTRUCTION OF ROB AS PER ALIGNMENT.
39. WORK WILL BE DONE UNDER THE SUPERVISION OF RAILWAY INFORMATION TO RAILWAY ENGINEERS, WITHIN RAILWAY LAND.
40. STANDARD OF CLEARANCE AS PER IRC - 6307
   i. LOAD OF CLASS A
   ii. SPECIAL VEHICLE (SV)
   WITH CONGESTION FACTOR WHICHEVER GOVERNS
41. PROTECTION WORKS SHALL BE PROVIDED OVER ROB AS PER IR STANDARD SPECIFICATIONS.
42. DRAINAGE ARRANGEMENT IN RAILWAY PORTION SHALL BE PROVIDED ADEQUATE AS PER RAILWAY REQUIREMENT.
43. SUPERSTRUCTURE, PLASTERING AND PROTECTION LAYER SHALL BE EXECUTED BY ENGAGING PROPER EXPERIENCED AGENCY AFTER APPROVAL BY COMPETENT AUTHORITY.
44. SLIDING PLATE SHALL BE PROVIDED FROM TRACK SIDE TO ALLOW THE LENGTH AS PER LATEST PROVISION OF IRS C-7.
45. ALL WORKS SHALL BE EXECUTED AS PER THE DRAWINGS APPROVED BY COMPETENT AUTHORITY AND AS PER THE GEOTECHNICAL REPORT. IF IT IS FOUND THAT PILING SOIL IMPROVEMENT TECHNIQUES TO BE EMPLOYED TO BRING THE BEARING CAPACITY EQUAL TO THE DESIGN VALUE, THE SAME SHALL BE DONE ACCORDINGLY.
46. TYPE OF WORK - CONCRETE, MASONRY, STEEL WORK ETC.
47. QUALITY CONTROL AND SAFETY PRECAUTIONS AND MEASURES TO BE OBSERVED DURING EXECUTION OF WORK.
48. LATEST SOD PROVISION SHOULD BE TAKEN CARE BY FIELD UNIT BEFORE EXECUTION OF WORK.
49. METHODOLOGY OF WORK NEAR THE TRACK SHOULD BE APPROVED BY THE COMPETENT AUTHORITY.
50. SKEW ANGLE OF GIRDER WILL BE DULY CONSIDERED IN DESIGN OF SUBSTRUCTURE AND BEARINGS.
51. NECESSARY PROVISIONS TO BE KEPT IN ESTIMATE FOR ELECTRICAL DEPT & S & T DEPT. FOR SHIFTING OF ELECTRIC POLE, SIGNAL CABLE, OHE MAST, CLEVIT LINES WITH POLE ETC., IF REQUIRED.
52. THE PROPOSED CONTRACTOR IN ORDER TO ENSURE ADEQUATE MEASURES TO AVOID ANY ACCIDENT DURING CONSTRUCTION SHALL ENGAGE A SAFETY OFFICER AS PER CLAUSE 14.3 OF IRC: 112-2011.
53. REINFORCEMENT BARS SHALL BE H.S.D STEEL OF GRADE Fe 500/HYSD CONFORMED TO IS:1786-2008.
54. STRUCTURAL STEEL WILL BE OF E350 BO(W) - 3W (ZESS).
55. DESIGN OF SUPERSTRUCTURE SHALL BE CARRIED OUT FOR DYNAMIC IMPACT LOAD AS PER PROVISION OF ACTUAL SPEED AS CALCULATED, I.R.S.B.C OR IRS BRIDGE RULES 2020.
56. DETAILED DESIGN OF NON STAND-ARD (SUPER STRUCTURE & SUB-STRUCTURE) SHALL BE SUBMITTED TO RDSO/CHIEF ENGINEER (NAT) VETTED BY RITES OR ANY OTHER AGENCY AS PER COMPETENT AUTHORITY.
57. CONCRETE OF GRADE M40 AND ABOVE SHALL BE USED IN PRESTRESSED CONCRETE.
58. CONCRETE OF GRADE M30 AND ABOVE SHALL BE USED IN REINFORCED CONCRETE.
59. CONCRETE OF GRADE M25 AND ABOVE SHALL BE USED IN PLAIN CONCRETE.
60. CONCRETE OF GRADE M20 AND ABOVE SHALL BE USED IN FOOTINGS.
61. CONCRETE OF GRADE M15 AND ABOVE SHALL BE USED IN PEDESTALS.
62. CONCRETE OF GRADE M10 AND ABOVE SHALL BE USED IN LEVELLING COURSE.
63. CONCRETE OF GRADE M7.5 AND ABOVE SHALL BE USED IN FILLING.

GEO TECHNICAL REPORT AS PER JOB CODE NO. MY190224

DESIGNATION AND NAME	SIGNATURE	DESIGNATION AND NAME	SIGNATURE	DESIGNATION AND NAME	SIGNATURE
(C.S.SINGH) DRM/ASN		(A. K. TIWARI) SR DEN/ASN		(PANKAJ KUMAR) SR DEN / DFCC / KRK	
(M.P.MEENA) DFM / GEN / ASN		(SUBHAM BISWAS) SR DEN / DFCC / KRK		(AJAY KUMAR) DSM / DFCC / KRK	
(RAJEEV RANJAN) Sr. DEN / ASN		(SOUVIK SENGUPTA) SR. DEE / TRD / ASN		(ARUNAVA ROY) Dy. CPM / DFCC / KRK	
(SHIV PRAKASH JHA) Sr. DEE / TRD / ASN		(SHIV PRAKASH JHA) Sr. DEE / TRD / ASN		(M. K. GUPTA) Dy. FA & CAO / DFCC / KRK	
(SHASHI BHUSHAN SINGH) Sr. DEN / DFCC / KRK		(RAJEEV RANJAN) Sr. DEN / ASN		(RAJEEV RANJAN) Dy. CPM / C / DFCC / KRK	
(VIJAY KUMAR) SR. DEE / G / ASN		(RAJEEV RANJAN) Sr. DEN / ASN		(RAJEEV RANJAN) Dy. CPM / C / DFCC / KRK	
(ANAND SHEKHAR) Sr. DEE / DFCC / KRK		(PRAVEEN KUMAR) Dy. CPM BINDU/ GRUDHRA		(PRAVEEN KUMAR) Dy. FA & CAO / DFCC / KRK	
(RANJEET KUMAR) Sr. DEE / TRD / ASN		(SHIV PRAKASH JHA) Sr. DEE / TRD / ASN		(P.S. YADAV) ADFM / G / DFCC / KRK	
(SHIV PRAKASH JHA) Sr. DEE / TRD / ASN		(SHIV PRAKASH JHA) Sr. DEE / TRD / ASN		(ABHISHEK KUMAR) CAO / DFCC / KRK	
SIGNATURE OF CONSTRUCTION OFFICIAL		SIGNATURE OF DRI OFFICIAL		SIGNATURE OF DFCCIL OFFICIAL	

AUTHORITY OF WORK - PNR-ROHA-DFCC/NG - 128 - 2021 - 22

EASTERN RAILWAY

ASANSOL DIVISION

DEDICATED FREIGHT CORRIDOR CORPORATION OF INDIA LIMITED (A Govt. of India Enterprise), Ministry of Railway, भारतीय रेल का परिचय

NAME OF WORK: CONSULTANCY SERVICES FOR PREPARATION OF DETAILED PROJECT REPORT FOR CONSTRUCTION OF ROBs IN CONNECTION WITH EASTERN DEDICATED FREIGHT CORRIDOR CORPORATION BETWEEN ANDAL TO PRADHANKHANTA OF ASANSOL DIVISION IN THE STATE OF WEST BENGAL & JHARKHAND

TITLE : CONSTRUCTION OF PROPOSED ROB AT IR KM 236/22-24 (CH: 237.782) AND IT APPROACHES HAVING EFFECTIVE SPAN (17X22.64m PSC GIRDER + 1x36.0m C.G. + 1x48.0m B.S.G.+1x36.0m C.G.+ 6x22.64m PSC GIRDER) IN LIEU OF LC GATE NO- 8 A/B/T AT IR Km. 236/23-25 (CH: 237.824) BETWEEN STATION MUGMA AND THAPARNAGAR ON PRADHANKHANTA - ANDAL SECTION OF EASTERN RAILWAY UNDER ASANSOL DIVISION.

DRG. NO.: DFCC/KKK/GAD/ROB/8A/B/T

DRG. : COMBINED GENERAL ARRANGEMENT DRAWING

SCALE : AS SHOWN | SHEET : 1 OF 1

CE'S DRG NO- B-207-2024

DRM/ASN/DRG.NO.-116-2024

SIGNATURE OF STATE GOVT. AUTHORITY	
DESIGNATION AND NAME	SIGNATURE
(MANOJ KUMAR) EE (P.WAY) DMH	
(SURYA BAKSHI) AEN (P.WAY) DMH	
(MUKESH KUMAR MANDAL) AE (P.WAY) DMH	

DRAWN BY	JAVED
CHECKED BY	SUDHIR KUMAR
DATE OF	FEB. 2024

CONSULTANT: SPARSH ENGINEERING COMPANY PRIVATE LIMITED
H-55, Harmu Housing Colony, Near Nigam Park, Ranchi, Jharkhand - 834 002, PH- 0651-2340659

Dey. Id - 1151