

SCHEDULE OF RATES (PRICED PART)

**NAME OF WORK : COMPOSITE WORKS FOR RAILWAY SIDING
TERMINAL OF BRAHMAPUTRA**

BIDDING DOC. NO.: 6907-160-16-43-PK-T-3001

**(BIDDER NEED TO MENTION
PRICE IN
PRICED SOR)**

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PREAMBLE TO SCHEDULE OF RATES

The Schedule of Rates shall be read in conjunction with all other sections of this Bidding Document.

- 2.0 The CONTRACTOR is deemed to have studied the drawings, specifications and details of works to be done within the Time Schedule and should have acquainted himself of the conditions prevailing at site.
- 3.0 The quantities shown against the various items are only approximate and may vary to any extent individually subject to conditions given in General Conditions of Contract/Special Conditions of Contract.
- 4.0 No claim shall be entertained during currency of this Contract towards any items due to the above including where the CONTRACTOR has quoted low/ high rates.
- 5.0 BCPL reserves the right to interpolate or extrapolate the rates for any new item of work not covered in Schedule of Rates from the similar items already available in schedule of rates. In case any activity though specifically not covered in schedule of rates descriptions but the same is covered under scope of work/ scope of supply/specification/ drawings etc. no extra claim on this account shall be entertained, since Schedule of Rates is to be read in conjunction with all other documents forming part of the Contract.
- 6.0 All items of work mentioned in the Schedule of Rates shall be carried out as per the specifications, drawings and instructions of EIL/ BCPL and the rates are deemed to be inclusive of material, consumable, labour, supervision, tools & tackles and detailing of construction/fabrication drawings, isometric wherever required as called for in the detail specification and conditions of the Contract.
- 7.0 EIL/ BCPL reserves the right to cancel/ delete/ curtail any item or group of work if necessary. Such a step shall not be construed as reason for changing the rates.
- 8.0 The rate for Extended Stay Compensation shall be filled up by Bidder in Form SP-2.
- 9.0 The Details of Cenvatable Service Tax shall be filled up by Bidder in Form-SP-3
- 10.0 The Details of Excise Duty included in quoted Prices for Indigenous Supplies shall be filled up by Bidder in Form-SP-4A
- 11.0 The Details of Cenvatable CVD and SAD Amount included in quoted Prices shall be filled up by Bidder in Form-SP-4B

FORM-SP0

NAME OF WORK: COMPOSITE WORKS FOR RAILWAY SIDING TERMINAL OF BRAHMAPUTRA

BIDDING DOCUMENT NO.: 6907-160-16-43-PK-T-3001

SUMMARY OF PRICES

Sl. No.	Description	Amount in Indian Rupees (₹)
1.	TOTAL QUOTED PRICE AS PER SOR FOR COMPOSITE WORKS	
i.	MECHANICAL WORKS [SOR No. 6907-160-52-43-SR450A – (11 Sheets)]	
ii.	MECHANICAL EQUIPMENT WORKS [SOR No. 6907-160-52-44-SR450 – (02 Sheets)]	
iii.	ROTATING EQUIPMENT WORKS [SOR No. 6907-160-52-45-SR450 – (03 Sheets)]	
iv.	STATIC EQUIPMENT WORKS [SOR No. 6907-160-52-46-SR450 – (02 Sheets)]	
v.	CIVIL WORKS [SOR No. 6907-160-52-47-SR450 – (21 Sheets)]	
vi.	STRUCTURAL WORKS [SOR No. 6907-160-52-48-SR450 – (11 Sheets)]	
vii.	ELECTRICAL WORKS [SOR No. 6907-160-52-50-SR450 – (03 Sheets)]	
2.	TOTAL QUOTED PRICE FOR ALL WORKS [Total of 1-i to 1-vii above]	
3.	Rebate offered on total as quoted price in percentage (Sr. No. 2) above (which will be applicable on each item of Schedule of Rates for all works)	Percentage (.....Percent)
4.	Amount of Rebate as per Sl. No. 3. Above	
5.	Net Total Price [Sl. No. (2)- (4) above] (In Figures)	_____
(In Words) Indian Rupees: _____		

Note:- 1) The benefit of Cenvat credit of Service Tax, Excise Duty and CVD/SAD quoted in Format SP-3, SP-4A and SP-4B shall be considered for evaluation of bids.
2) Bid would be further evaluated after considering 'Extended Stay Compensation' if any as quoted in Format SP-2.

(STAMP & SIGNATURE OF BIDDER)

SCHEDULE OF RATES – FORM SP1

Schedule of Rates
for
Mechanical Works

TENDER : Composite Works for Railway Siding Terminal at Lepetkata.		1	01.09.14	REVISED AND RE-ISSUED FOR TENDER	AD	VKM	VKM
		0	13.08.14	ISSUED FOR TENDER	AD	VKM	VKM
		REV		PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES		Rev
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: PIPING	6907-160-52-43-SR450A		1
					SHEET 1 OF 11		

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.	
					Figures	Words		
1	M20000000000	PIPING-OFFSITES						
2	M20900000000	PIPING (ABOVE GROUND) :-Transportation of all piping items from Owner's storage point to work site / work shop or from contractor's storage point to work site/ work shop in case of material supplied by contractor, fabrication including cutting, edge preparation, (inclusive of grinding the edges of pipe, fittings, flanges etc. to match with the mating edges of uneven/different thickness wherever required); fitup, bending, preheating wherever required, welding, threading, and laying of pipes of all types and thickness over sleepers, overhead on racks and at all elevations, connecting with equipment nozzles, strainers, steam traps, orifice assemblies, spray nozzles, rotameters, tappings for pressure gauges, thermowells, sample connections, springs, sample coolers etc. and fixing of gaskets, bolts, nuts including application of torque wherever required & all other inline instruments and fittings, like elbows, reducers, tees,vents, drains (but excluding reinforcing pads),SW valves upto 1.5 Inch NB, Steam Supply/ Condensate Recovery stations(Cast/Fabricated), alignment, cleaning & flushing by water/compressed air, hydrostatic, pneumatic, vacuum, spark testing and any other type of testing as specified draining, drying by compressed air, performing Positive Material Identification (PMI) using alloy analysers, completing all such works in all respects (including preparation of isometrics as mentioned in the Scope of Work for the job) as per the specifications, drawings and instructions of Engineer-in-Charge. Rates for tubing (if any) shall include rates for valves, fittings, all in line instruments and testing etc. Carbon steel piping includes LTCS piping also.						
3	M20901000000	CARBON STEEL PIPING (NON IBR); THK. <= 10MM						
4	M20901010000	FABRICATION (BUTT WELD)						
5	M20901019100	NB UPTO 1.5 INCH	Inch Dia	24.25				
 ENGINEERS INDIA LTD KOLKATA		Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM Div.: RO-KOLKATA Dept.: PIPING		SCHEDULE OF RATES 6907-160-52-43-SR450A SHEET 2 OF 11	Rev 1

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
6	M20901019200	NB 2 INCH - 6 INCH	Inch Dia	4030			
7	M20901019300	NB 8 INCH - 14 INCH	Inch Dia	890			
8	M20901019400	NB 16 INCH - 24 INCH	Inch Dia	2655			
9	M20901019500	NB 26 INCH - 36 INCH	Inch Dia	565			
10	M20901020000	FABRICATION (FILLET WELD)					
11	M20901029100	NB UPTO 1.5 INCH	Inch Dia	305			
12	M20901029200	NB 2 INCH - 6 INCH	Inch Dia	6			
13	M20901040000	ERECTION					
14	M20901049100	NB UPTO 1.5 INCH	Inch M	100			
15	M20901049200	NB 2 INCH - 6 INCH	Inch M	1865			
16	M20901049300	NB 8 INCH - 14 INCH	Inch M	975			
17	M20901049400	NB 16 INCH - 24 INCH	Inch M	19690			
18	M20901049500	NB 26 INCH - 36 INCH	Inch M	2255			
19	M21600000000	VALVES :- Transportation of all types of valves (Including special & motor operated valves) from Owner's storage points to contractor's stores/worksite or contractor's storage points to worksite / work shop in case of material supplied by contractor and installation of valves for all rating including assembly of valves accessories, if any, fixing of gaskets bolts/nuts wherever required and performing Positive Material Identification(PMI) using alloy analysers as per specifications, drawings and directions of Engineer-in-Charge.					
20	M21601000000	FLANGED/WAFER VALVES (UPTO 600#)					
21	M21601000900	NB 2.000 INCHES	Nos	18			
22	M21601001100	NB 3.000 INCHES	Nos	2			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT	SCHEDULE OF RATES 6907-160-52-43-SR450A SHEET 3 OF 11	Rev 1
				Project : BCPL CRACKER COMPLEX, ASSAM		
				Div.: RO-KOLKATA Dept.: PIPING		

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
23	M21601001300	NB 4.000 INCHES	Nos	104			
24	M21601001500	NB 6.000 INCHES	Nos	6			
25	M21601001600	NB 8.000 INCHES	Nos	2			
26	M21601001800	NB12.000 INCHES	Nos	8			
27	M22000000000	BOLT TENSIONING :- Carrying out tensioning of bolted joints on all types of piping as called for in EIL Specification No.6-76-0002 on already erected system including supply of all materials, recording devices, instruments etc; Providing all normal and special equipment and gadgets, skilled / un skilled labour, specialist, supervisory staff and completing the work in all respects as per specifications and instructions of engineer-in-charge. some joints may require bolt tensioning more than once, but, payment for one joint shall be made only once.					
28	M22001000000	150# JOINTS					
29	M22001002000	NB16.000 INCHES	Nos	12			
30	M22001002200	NB20.000 INCHES	Nos	4			
31	M22001002400	NB24.000 INCHES	Nos	2			
32	M22001002600	NB28.000 INCHES	Nos	1			
33	M22100000000	REINFORCING PADS FOR PIPES :- Fabrication of reinforcing pads for pipe connection wherever required (from pipes only supplied by the Owner) and erection, fitup, welding & testing (including DP/MP) if required of the same and performing Positive Material Identification(PMI) using alloy analysers as per the specifications, drawings and instructions of the Engineer-in-Charge. Note: Sizes mentioned for Reinforcing Pads are for branch pipe					

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-160-52-43-SR450A	Rev 1
				Div.: RO-KOLKATA Dept.: PIPING	SHEET 4 OF 11	

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
34	M22101000000	C.S REINFORCING PADS					
35	M22101000900	NB 2.000 INCHES	Nos	3			
36	M22101001300	NB 4.000 INCHES	Nos	96			
37	M22101001600	NB 8.000 INCHES	Nos	3			
38	M22101002000	NB16.000 INCHES	Nos	4			
39	M22200000000	RADIOGRAPHY :- Performance of radiographic inspection on piping of all types & thicknesses including providing or hiring of all necessary equipment and whatever else even though not expressly mentioned but required to perform the work as per specifications and instructions of Engineer-in-Charge. Radiographs shall be submitted to the Engineer-in-charge. (Repeat Radiography due to defective radiograph on repaired joints due to Contractor's fault and for additional radiography necessitated due to poor performance of contractor's welders shall be done at contractor's cost) Note: Unit for radiography quantity is 'Nos of circumferencial weld joints'.					
40	M22201000000	FOR JOINTS THK. <= 8MM (FOR CS OTHER THAN CLASS IV OF SPEC 6-44-16)					
41	M22201000400	NB 0.500 INCHES	Nos	24			
42	M22201000500	NB 0.750 INCHES	Nos	1			
43	M22201000600	NB 1.000 INCHES	Nos	2			
44	M22201000900	NB 2.000 INCHES	Nos	11			
45	M22201001100	NB 3.000 INCHES	Nos	23			
46	M22201001300	NB 4.000 INCHES	Nos	64			
47	M22201001500	NB 6.000 INCHES	Nos	11			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-160-52-43-SR450A	Rev 1
				Div.: RO-KOLKATA Dept.: PIPING	SHEET 5 OF 11	

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
48	M22203000000	FOR JOINTS ABOVE THK. 8MM					
49	M22203001600	NB 8.000 INCHES	Nos	61			
50	M22203001700	NB10.000 INCHES	Nos	2			
51	M22203001800	NB12.000 INCHES	Nos	5			
52	M22203002000	NB16.000 INCHES	Nos	2			
53	M22203002200	NB20.000 INCHES	Nos	2			
54	M22203002400	NB24.000 INCHES	Nos	12			
55	M22203002600	NB28.000 INCHES	Nos	2			
56	M22300000000	DYE PENETRATION/MAGNETIC PARTICLE TEST :- Performance of magnetic particle/ dye penetrant test including supply of all necessary materials, equipment and labour for carrying out the work as per specification and directions of Engineer-in-Charge.					
57	M22301000000	DYE PENETRANT TEST	Inches	70			
58	M22400000000	PIPE SUPPORTS (FROM MATERIALS SUPPLIED BY OWNER) :- Fabrication, erection(at all elevations) of pipe supports like shoes, cradles, hangers, clamps(of all sizes/thicknesses manufactured by forming method using die), turn buckles, saddles, guides, special supports, pads, T post etc. of all types including supply and application one coat of primer, all necessary equipments, consumables, labour, returning surplus materials and scrap etc to owners storage points and completing work as per drawings, specifications and instructions of Engineer-in-charge. Modifications/rectifications, if required; and adjustment/ alignment during precommissioning, commissioning as per the instructions of Engineer-in-charge.					
59	M22404000000	DUMMY PIPE SUPPORTS FOR C.S (OWNER	MT	0.5			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT	SCHEDULE OF RATES 6907-160-52-43-SR450A SHEET 6 OF 11	Rev
				Project : BCPL CRACKER COMPLEX, ASSAM		1
				Div.: RO-KOLKATA Dept.: PIPING		

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
60	M22500000000	SUPPLIED) PIPE SUPPORTS (FROM MATERIALS SUPPLIED BY CONTRACTOR) :- Fabrication, erection(at all elevations) of pipe supports like shoes, cradles, hangers, clamps(of all sizes/thicknesses manufactured by forming method using die), turn buckles, saddles, guides, special supports, pads, T post etc. of all types including supply and application one coat of primer, all necessary equipments, consumables, labour, and completing work as per drawings, specifications and instructions of Engineer-in-charge. Modifications/rectifications, if required; and adjustment/ alignment during precommissioning, commissioning as per the instructions of Engineer-in-charge.	MT	2			
61	M22501000000	C.S STRUCTURAL STEEL (CONTRACTOR SUPPLIED)					
62	M40000000000	PAINTING (OFFSITE) :- Supply of paints and primer, preparation of surfaces prior to erection and application of one coat of primer for uninsulated surfaces, preparation of surfaces and application of primer and finish paints for painting under insulation as specified providing of, consumables supervision etc. to complete the work in all respects as per Job spec.6907-0642-PT-L07, Rev.0, drawings and direction of Engineer-in-Charge for all pipes, fittings, flanges, supports, valves etc. Surface preparation by blast cleaning and application of first coat of primer (inorganic zinc silicate, F9) shall be done in fabrication yard prior to erection. For insulated piping wherever blast cleaning with no primer application is specified, in such cases finish paints shall also be applied in the fabrication yard. The identification marks of the piping and joints shall be noted before blasting and the same shall be transferred on primed surface with Acrylic Polyurethane paint (F2) or as per the instructions of Engineer-in-Charge. Note: All joints (fabrication as well as					

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES				Rev
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: PIPING	6907-160-52-43-SR450A				1
				SHEET 7 OF 11					

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
63	M49100000000	erection joints) shall be left unpainted till hydrotesting. All valves have to be considered for only Finish Paint only and not to be consider for Surface Preparation and Primer as per Job Specification. SURFACE PREPARATION & PRIMER APPLICATION FOR CS,LTCS & LOW AS BARE SURFACES FOR CORROSIVE ENVIRONMENT AS PER JOB SPEC.6907-0642-PT-L07, REV.0					
64	M49103000000	DESIGN TEMP GROUP: 61 TO 80 (DEG C)DESIGN TEMP GROUP: 61 TO 80 (DEG C) SURFACE PREPARATION: SSPC-SP-10; 1COAT OF F-9 @ 65-75MICRONS DFT/COAT , PRIMER: 1 COAT OF P-6 @ 40MICRONS DFT/COAT; FINISH PAINT: 1 COAT OF F-6B @100MICRON S DFT/COAT +1 COAT OF F-2 @ 40 MICRONS DFT/COAT (100+40=140)					
65	M49103010000	PIPES					
66	M49103010400	NB: .5 Inches	Metres	155			
67	M49103010500	NB: .75 Inches	Metres	45			
68	M49103010600	NB: 1 Inches	Metres	70			
69	M49103010900	NB: 2 Inches	Metres	160			
70	M49103011100	NB: 3 Inches	Metres	20			
71	M49103011300	NB: 4 Inches	Metres	305			
72	M49103011500	NB: 6 Inches	Metres	35			
73	M49103011600	NB: 8 Inches	Metres	35			
74	M49103011800	NB: 12 Inches	Metres	60			
75	M49103012000	NB: 16 Inches	Metres	30			
76	M49103012200	NB: 20 Inches	Metres	65			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-160-52-43-SR450A	Rev 1
				Div.: RO-KOLKATA Dept.: PIPING	SHEET 8 OF 11	

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
77	M49103012400	NB: 24 Inches	Metres	765			
78	M49103012600	NB: 28 Inches	Metres	90			
79	M49103020000	VALVES					
80	M49103020900	NB: 2 Inches	Nos.	20			
81	M49103021100	NB: 3 Inches	Nos.	2			
82	M49103021300	NB: 4 Inches	Nos.	114			
83	M49103021500	NB: 6 Inches	Nos.	7			
84	M49103021600	NB: 8 Inches	Nos.	2			
85	M49103021800	NB: 12 Inches	Nos.	9			
86	M19900000000	SUPPLY OF PIPING ITEMS AS PER ANNEXURE-1 ATTACHED WITH THIS SOR	LS	1			

	ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-160-52-43-SR450A SHEET 9 OF 11	Rev
			Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: PIPING		1

SI NO.	ITEM CODE	DESCRIPTION	Unit	QTY	Rate in Rupees (Figure)	Rate in Rupees (Words)	Amount in Rupees
1	FNC0127Z009ZZZZZ	FLNG.SO B-16.5 ASTM A 105 150 RF/125AARH 2.0 INCH	Nos	6			
2	FWC0127Z00919ZZZZ	FLNG.WN B-16.5 ASTM A 105 150 RF/125AARH 2.0 INCH XS	Nos	28			
3	HP29300615003ZA3A	HOSE.PIPE EIL'STD PLANT AIR/SER.WATER 1.0 INCH 15.0 M QUICK END & NOZZLE END A3A	Nos	24			
4	WA602D2Z006ZZZZZ	ELBOW.90 B-16.11 ASTM A 105 SW 3000 1.0 INCH	Nos	79			
5	WA602D3Z005ZZZZZ	ELBOW.90 B-16.11 ASTM A 105 SW 6000 0.75 INCH	Nos	30			
6	WR602D2Z006ZZ05ZZ	T.RED B-16.11 ASTM A 105 SW 3000 1.0 INCH 0.75 INCH	Nos	37			
Note : The items and also quantity against each item is tentative and shall be used to arrive the total price. However the actual item and quantity need to be procured shall be reconfirmed by client / Engineer-In-Charge before taking the final procurement and the final executed value shall be arrived.							
						SCHEDULE OF RATES 6907-160-52-43-SR450A SHEET 10 OF 11	REV 1

Notes

- 1) Flanges shall be supplied in compliance with the following:
 - a) Technical Notes for Flanges, Spectacle Blinds and Drip Rings (Doc No 6-44-0053).
 - b) Dimensions for handle projection for spacers and blinds (Doc No 7-44-0166)
 - c) Specification for quality management system requirements from bidders (Doc No 6-78-0001).
 - d) Specification for documentation requirements from suppliers (Doc No 6-78-0003).
 - e) Inspection and Test Plan for Flanges, Spectacle Blinds and Drip Rings (Doc No 6-81-0006).
- 2) Fittings shall be supplied in compliance with the following:
 - a) Technical Notes for Butt welded, Socket welded and Screwed Fittings (Doc No 6-44-0054).
 - b) Specification for quality management system requirements from bidders (Doc No 6-78-0001).
 - c) Specification for documentation requirements from suppliers (Doc No 6-78-0003).
 - d) Inspection and Test Plan for Fittings (Doc No 6-81-0005).
- 3) Hose Pipes and Couplings shall be supplied in compliance with the following:
 - a) Technical Notes for hoses and hose couplings (Doc No 6-44-0064).
 - b) Specification for quality management system requirements from bidders (Doc No 6-78-0001).
 - c) Specification for documentation requirements from suppliers (Doc No 6-78-0003).
 - d) Inspection and Test Plan for Hose Pipe and Couplings (Doc No 6-81-0135)
- 4) All materials shall be supplied with Third Party Inspection.
- 5) Contractor shall be responsible for procurement of proper piping material, storage and transportation to Naphtha unloading site(BCPL, Lepetkata).

Schedule of Rates
for
Mechanical Equipment

TENDER : Composite Works for Railway Siding Terminal at Lepetkata.		0		ISSUED WITH TENDER			
		REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES		Rev
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: MECH EQPT	6907-160-52-44-SR450		0
					SHEET	1 OF 2	

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	QQ	MECHANICAL EQUIPMENT	LOT	1			
2	Q999.00.00	Miscellaneous					
3	Q999.99.00	Miscellaneous					
4	Q999.99.99V01	Control Room and UPS Room: Supply, transportation, installation, testing, commissioning of 4 nos 3 TR capacity Cassette type AC and 2 nos of 2 TR capacity Split type AC complete with all accessories and fittings (Doc. No. 6907-160-16-44-SOW-45 Rev. A)					
 ENGINEERS INDIA LTD KOLKATA		Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM Div.: RO-KOLKATA Dept.: MECH EQPT	SCHEDULE OF RATES 6907-160-52-44-SR450 SHEET 2 OF 2	Rev 0

Schedule of Rates
for
Rotating Equipment

TENDER : Composite Works for Railway Siding Terminal at Lepetkata.		0		Issued With Tender		SB	SB
		REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES		Rev
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: ROTATIGN EQPT	6907-160-52-45-SR450		0
							SHEET 1 OF 3

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	R000.00.00	Rotating Equipment					
2	R001.00.00	Transportation of Rotating Equipment & miscellaneous items from Owner's storage points to work site / contractor's stores, assembly of sub-assemblies, placing the equipments on foundations, erection of interconnecting piping, levelling, aligning, including chipping & dressing of foundations, grouting (including supply and application of non-shrink grout material), and providing manpower for testing, rectifying defects if any and completing the work in all respects as per drawings, Job specification for Mechanical Tender (Rotating Equipment) enclosed and instructions of Engineer-in-charge.					
3	R001.01.00	All Types of Pumps with Drivers (Electric Motor or General Purpose Steam Turbine) and accessories	MT	40			
4	R002.00.00	Epoxy Grout					
5	R999.00.00	Miscellaneous					
6	R999.99.00	Miscellaneous					
7	R999.99.99V01	Design, engineering, manufacture, procurement of materials and bought out components, assembly at shop, inspection and testing at manufacturer's shop, packing, supply & delivery of the following pumping units including drivers, supply of all commissioning spares, special tools and tackles & all associated accessories and ancillaries and also including documentation charges	NOS	2			
		Dewatering Pumps (Horizontal Centrifugal Pumps, item no. : 160-P-01 A/B) for OWS / CRWS Pit inside Naphtha Pump House as per datasheet no. : 6907-160-52-47-DSA1					
8	R999.99.99V02	Design, engineering, manufacture, procurement of	NOS	2			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES				Rev
				Div.: RO-KOLKATA Dept.: ROTATIGN EQPT	6907-160-52-45-SR450				0
					SHEET 2 OF 3				

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
		materials and bought out components, assembly at shop, inspection and testing at manufacturer's shop, packing, supply & delivery of the following pumping units including drivers, supply of all commissioning spares, special tools and tackles & all associated accessories and ancillaries and also including documentation charges Dewatering Pumps (Horizontal Centrifugal Pumps, item no. : 160-P-02 A/B) for OWS / CRWS covered sump as per datasheet no. : 6907-160-52-47-DSA2					

	ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES	Rev
					Div.: RO-KOLKATA Dept.: ROTATIGN EQPT	6907-160-52-45-SR450	0
			Date	Bidder's Signature		SHEET 3 OF 3	

Schedule of Rates
for
Static Equipment

TENDER : Composite Works for Railway Siding Terminal at Lepetkata.		0		ISSUED WITH TENDER		PB	PB
		REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES		Rev
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: STATIC EQPT	6907-160-52-46-SR450		0
		SHEET 1 OF 2					

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	VV	STATIC EQUIPMENT					
2	V999.00.00	Miscellaneous					
3	V999.99.00	Miscellaneous					
4	V999.99.99V01	Transportation of vessels and loose supplied nozzles (LT1, LT2, M1, M2, P & TI) from owner's storage point to work site, placing the vessel on concrete saddles in RCC pit, welding these nozzles as per match mark on projected nozzle neck provided at the top of the vessel with already beveled edge under supervision of vessel vendor/ Engineer in Charge, carrying out NDT on the joints welded at site, repair/touchup of primer and application of finish paints including supply of primer and finish paint as per clause 13.1 of Teable-13 of attached specification (6907-0642-PT-L07), all accessories, equipment, labour etc., filling the RCC pit upto the top with sand by vibro compression (approximate clearance between RCC wall and vessel shall be 1500 mm), providing 100mm thick lean concrete on top, including supply of all materials and completing all works as per drawings, specifications and instruction of Engineer-in-charge. (Applicable specification 6907-0642-PT-L07).	MT	13.5			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT	SCHEDULE OF RATES		Rev
				Project : BCPL CRACKER COMPLEX, ASSAM	6907-160-52-46-SR450		
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: STATIC EQPT	SHEET	2 OF 2	0

Schedule of Rates
for
Civil Works

TENDER: Composite Works for Railway Siding Terminal at Lepetkata.	2		Issued with Tender	AC	SB	TM
	1		Issued with Tender	SB	GG	GG
	0		Issued with Tender	SB	GG	GG
	Rev.	Date	Purpose	By	Checked	Approved

 ENGINEERS INDIA LIMITED (A Govt. of India Undertaking)	Bidder's Stamp	Date	Bidder's Signature	Client: BRAHMPUTRA CRACKER & POLY.LTD. Project: BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-160-52-47-SR450	REV. 2
				Div.: RO-KOLKATA Dept.: GENERAL CIVIL	Page 1 of 31	

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	GC	GENERAL CIVIL					
2	C008.00.00	CONCRETE PAVEMENTS (SPEC NO.6-65-0019)					
3	C008.05.00	Providing 20mm wide Expansion Joints in pavement slabs as per std. No.7-65-0404 including cleaning the joints of all loose material, filling with 20mm thick impregnated fibre boards for the full depth of slab except for 25mm depth from top and sealing the top 25mm with approved Joint Sealing Compound as per IS:1834 Type-B etc. All complete as per drawings, specifications and directions of Engineer-in-Charge.					
4	C008.05.01	For type-I pavement (Upto and inclusive of thickness of 200 mm). (Including providing and laying MS dowel bar, painting as required, GI pipe and cap and cotton waste).	M	9			
5	C041.00.00	MISCELLANEOUS ITEMS					
6	C041.34.00	Installation of fire fighting equipment including transporting the equipment from Owner's store to work site, fixing of nuts, bolts, washers, gaskets needed for fixing the equipment with matching flange, welding etc. complete as per drawings, specifications and direction of Engineer-in-Charge. (All fire fighting equipments and accessories shall be supplied by owner)					
7	C041.34.02	Stand Post type fire hydrant (Double outlet)	EACH	55			
8	C041.34.03	Water/ water cum foam monitor	EACH	30			
9	C041.34.10	Type-II Hose Box chamber including all items inside the chamber, fixing in position with anchor bolts in foundation or wall, including all civil works and supply of all materials including cement etc. (hose box and inside accessories supplied free of cost by owner)	EACH	30			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.	
					Figures	Words		
10	C999.00.00	Miscellaneous						
11	C999.99.00	Miscellaneous						
12	C999.99.99V01	Providing and laying brick masonry with locally available bricks of Class 5.0 (Bricks of class lower than 5.0 i.e. compressive strength of brick lower than 5.0 N/MM2 shall not be acceptable) in cement mortar 1:6 (1 Cement:6Coarse Sand) in one or more brick thickness and in any shape in foundation and plinth for valve pits, drains, Hydrant & Monitor platforms or any other place etc. including providing scaffolding, recesses, opening etc. including curing, finishing the joints flush below ground level and racking out joints in plinth with all labour and material etc. complete as per drawings, specifications and Direction of Engineer - in - charge. (All material including cement supplied by contractor)	CUM	220				
13	C999.99.99V02	Providing 13mm thick average cement plaster in cement mortar 1:3 (1 cement: 3 sand) on brick walls of storm water drains, Stone masonry/pitching or on concrete surfaces for manholes, valves pits, culverts, Hydrant &Monitor platforms or any other place if required etc. including cleaning and preparation of the surface, scaffolding, curing etc. for all depths and heights complete as per drawings specifications and direction of Engineer-in-Charge. All materials including cement supplied by the Contractor.	SQM	500				
14	C999.99.99V03	Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, pits, manholes, etc. including dewatering, shoring and shuttering if necessary, dressing of	M	70				
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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
15	C999.99.99V04	sides, levelling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth within a lead of 500M,commissioning etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(Cement shall be supplied by contractor)For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes) (Dia 150 - mm Pipe class - P1) Supplying and laying underground R.C.C. pipes sewers with socket and spigot ends conforming to IS:458 of approved make, to proper grade and alignment, including earthwork in excavation in all types of soil except soft and hard rock for pipe trenches, pits, manholes, etc. including dewatering, shoring and shuttering if necessary, dressing of sides, levelling, grading and ramming of bottoms, cutting the R.C.C. pipes to required lengths, lowering the pipes, jointing, including connecting the pipes to manholes and grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand), testing, draining of water and cleaning of pipe after testing, backfilling, making good the surface, including cutting of roads wherever required and making good the same, disposal of surplus earth within a lead of 500M,commissioning etc. complete for all depths as per drawings, specifications and instructions of Engineer-in-Charge.(Cement shall be supplied by contractor) For following Pipe size (mm) and Class(The following pipe sizes are all internal diameter of the pipes) (Dia 250 - mm Pipe class -P1)	M	40			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
16	C999.99.99V05	FABRICATION AND ERECTION OF PIPING (SPEC. NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes, sleeves for fire water line (under road) etc., cutting of pipes if required, edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642-CTTAPE-C10 on pipes and specials, laying the pipes under road to required alignment and levels, welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, cutting of road wherever required and making good the same, hydrostatic testing of the system, flushing, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specifications and instructions of Engineer in- Charge, including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material) For Water System For following Nominal Sizes and Piping material Class Dia. - 12"; Material Class – A97A	M	350			
17	C999.99.99V06	FABRICATION AND ERECTION OF PIPING (SPEC. NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/ Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes, sleeves for fire water line (under road) etc., cutting of pipes if required, edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642-CTTAPE-C10 on pipes and specials, laying the pipes in trenches to required alignment and levels,	M	750			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
18	C999.99.99V07	welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, cutting of road wherever required and making good the same, hydrostatic testing of the system, flushing, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specifications and instructions of Engineer in- Charge, including connecting the pipes to manhole by grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand) and curing the joint etc. including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material) (10 % radiography for OWS/CRWS line shall be paid separately as per rate available in piping section) For Water System For following Nominal Sizes and Piping material Class Dia. - 16"; Material Class – A92A FABRICATION AND ERECTION OF PIPING (SPEC. NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/ Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes, sleeves for fire water line (under road) etc., cutting of pipes if required, edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642-CTTAPE-C10 on pipes and specials, laying the pipes in trenches to required alignment and levels, welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, cutting of road wherever required and making good the same, hydrostatic testing of the system, flushing, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per	M	100			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
19	C999.99.99V08	drawings, specifications and instructions of Engineer in- Charge, including connecting the pipes to manhole by grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand) and curing the joint etc. including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material) (10 % radiography for OWS/CRWS line shall be paid separately as per rate available in piping section) For Water System For following Nominal Sizes and Piping material Class Dia. - 20"; Material Class – A97A FABRICATION AND ERECTION OF PIPING (SPEC. NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes, sleeves for fire water line (under road) etc., cutting of pipes if required, edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642-CTTAPE-C10 on pipes and specials, laying the pipes, connecting the pipes to reservoir/sump and grouting the pipe body with reservoir/sump wall using cement mortar 1:2, welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, hydrostatic testing of the system, flushing, etc. complete as per drawings, specifications and instructions of Engineer in- Charge, including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material) For Water System For following Nominal Sizes and Piping material Class Dia. - 32"; Material Class – A92A	M	20			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
20	C999.99.99V09	FABRICATION AND ERECTION OF PIPING (SPEC. NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes etc., cutting of pipes if required, edge preparation, providing corrosion protection tape coating as per spec no. 69070642-CTTAPE-C10 on pipes and specials, laying the pipes in trenches to required alignment and levels, welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, cutting of road wherever required and making good the same, hydrostatic testing of the system, flushing, drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specifications and instructions of Engineer-in- Charge, including connecting the pipes to manhole by grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand) and curing the joint etc. including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material)(10 % radiography for OWS/CRWS line shall be paid separately as per rate available in piping section) For Water System (gravity) For following Nominal Sizes and Piping material Class Dia. - 8"; Material Class - A96A	M	50			
21	C999.99.99V10	FABRICATION AND ERECTION OF PIPING (SPEC.NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes etc., cutting of pipes if	M	290			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
22	C999.99.99V10	required, edge preparation, providing corrosion protection tape coating as per spec no. 69070642-CTTAPE-C10 on pipes and specials, laying the pipes in trenches to required alignment and levels, welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, cutting of road wherever required and making good the same, hydrostatic testing of the system, flushing, drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specifications and instructions of Engineer in-Charge, including connecting the pipes to manhole by grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand) and curing the joint etc. including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material)(10 % radiography for OWS/CRWS line shall be paid separately as per rate available in piping section) For Water System (gravity) For following Nominal Sizes and Piping material Class Dia. - 12"; Material Class - A96A FABRICATION AND ERECTION OF PIPING (SPEC.NO.6-65-0030 and 6-44-0012): Laying and jointing of black steel tubes / ERW Pipes/Fabricated steel pipes and specials including transportation of all material from Owner's storage point to worksite, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches, valve pits, saddles, manholes etc., cutting of pipes if required, edge preparation, providing corrosion protection tape coating as per spec no. 69070642-CTTAPE-C10 on pipes and specials, laying the pipes in trenches to required alignment and levels, welding the same after laying, including 10% radiography, corrosion protection tape coating of field joints, cutting of road wherever required and making good the same, hydrostatic testing of the system, flushing,	M	20			

 ENGINEERS INDIA LIMITED (A Govt. of India Undertaking)				Client: BRAHMPUTRA CRACKER & POLY.LTD.	SCHEDULE OF RATES	REV.
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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
23	C999.99.99V12	drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specifications and instructions of Engineer-in- Charge, including connecting the pipes to manhole by grouting the pipe body with manhole wall using cement mortar 1:2 (1 cement : 2 sand) and curing the joint etc. including return of all unused / scrap pipes to owner's storage point (pipes shall be supplied by owner as free issue material) _(10 % radiography for OWS/CRWS line shall be paid separately as per rate available in piping section) For Water System (gravity)For following Nominal Sizes and Piping material Class Dia. - 20"; Material Class - A96A	EACH	255			
24	C999.99.99V13	Supplying, fabricating and fixing in position in RCC or brick masonry walls for manholes/valve pit etc. M.S. rungs of standard dimensions shown in the drgs. made out of 16mm dia M.S. bars including cost of steel, straightening, cleaning, cutting, bending, keeping in proper position including applying two coats of anticorrosive paint, complete as per drawings, specifications and directions of Engineer-in-Charge.	EACH	32			
25	C999.99.99V14	Supply, installing and fixing in position CI manhole frame and cover of size 500 MM clear dia (circular medium duty of grade MD-10) conforming to IS:1726 including breaking of concrete surface to make space for frame and making good the same with cement mortar 1:3 (1 cement: 3 sand) including applying two coats of anticorrosive paint etc. complete. Cement supplied by contractor.	EACH	105			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
26	C999.99.99V15	Vent pipe for sealed manhole conforming to IS:1239above ground for venting out from OWS/CRWS RCC manholes including specials, bends, including plugs, shoes, cowls, grouting in cement mortar 1:2 (1 cement : 2sand) and testing, cutting floors/walls and making good the same etc. complete as per drawings, specifications and directions of Engineer-in-Charge.100mm Dia (All materials including cement supplied by contractor)	M	450			
27	C999.99.99V16	Providing and fixing centering and shuttering in foundations, footings, raft, beams, slabs, culverts, drains, pipe way bridges, manholes, valve pits, pipe sleepers, liquid storage structures, etc. including strutting, bracing, propping etc. keeping the same in position during concreting and removal of the same after specified period etc. for straight, inclined shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete as per specifications and directions of Engineer-in-Charge. For all depths below and up to and inclusive of plinth level.	SQM	1175			
28	C999.99.99V17	PLAIN CEMENT CONCRETE (PCC)(Refer Specification Number 6-68-0004) Providing and laying PLAIN CEMENT CONCRETE of nominal mix 1:2:4 by volume (1 cement: 2 coarse sand :4 crushed stone aggregate/ gravel) in platform of Firewater Hydrant & Monitor and any other place if required, including shuttering, tamping, ramming, vibrating, curing etc. with stone aggregate/ gravels with 20mm and downsize graded crushed stone aggregates as per drawings &specifications and direction of Engineer-in-Charge.	CUM	30			
29	C999.99.99V18	Providing and laying plain cement concrete of Nominal Mix 1:5:10 with 40mm and down size graded stone aggregates for all depths below and up to plinth level in foundations, manholes, pipe sleepers,	CUM	40			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
30	C999.99.99V19	culverts, pipe beds, pipe encasements, Hydrant & Monitor platform or any other place, including tamping, ramming vibrating, curing all as specified in any shape, position, thickness sand finishing the top surface rough or smooth, etc. all complete as per drawings, specifications and direction of Engineer-in-Charge.(Excluding the cost of shuttering). All materials including cement supplied by the contractor.	CUM	195			
31	C999.99.99V21	Providing and laying reinforced cement concrete of M-30grade with 20 mm and down size graded crushed stone aggregates for box culvert, Catch Basin, Manholes, RCC drains or any other place including providing pockets, openings, recesses, chamfering etc. wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc, all complete (excluding the cost of Reinforcement and shuttering) for all depths, below and up to plinth level in any shape, position and thickness etc. all complete as per drawings, specifications and direction of Engineer-in-Charge. All materials including cement supplied by the contractor.	M	18			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
32	C999.99.99V22	making good the same, painting of field joints, hydro static testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 3 INCH, Pipe Class - A97A Laying and jointing of above ground carbon steel pipes, all fittings and specials including transportation of all material to work site, cutting of pipes, edge preparation, surface preparation and painting with fire red paint as per painting specifications and with shade no. 536 of IS : 5 for finish coat red paint on pipes and specials, laying the pipes of all type and thickness over pipe supports/sleepers to required alignment and levels, welding the same after laying, including 10% radiography, providing reinforcing pad as per piping material specifications, installation of flanges (including break-up flanges wherever necessary), tapping for pressure gauges, temperature gauges etc., fixing of nuts, bolts, gasket sand washers, welding etc. wherever required and all other online instruments & fittings like elbows, reducers, tees, drains, etc. cutting of roads wherever required and making good the same, painting of field joints, hydrostatic testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 4 INCH, Pipe Class - A97A	M	100			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
33	C999.99.99V23	FABRICATION AND ERECTION OF PIPING (SPEC NO.6-65-0030 AND 6-44-0012):Laying and jointing of black steel tubes/ ERW pipes/fabricated steel pipes, fittings and specials including transportation of all materials, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches , valve pits, saddles, manholes etc. ,cutting of pipes if required , edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642CTTAPE-C10 on pipes and specials, laying the pipes in trenches/ under the roads to required alignment and levels, welding the same after laying, including 10%radiography, installation of elbows, corrosion protection tape coating of field joints, cutting of roads wherever required and making good the same, hydrostatic testing of the system flushing ,drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specs. And instructions of the Engineer -in-charge, etc.(Pipe & elbows shall be supplied by Client & balance all materials shall be supplied by the contractor at his own cost)(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 4 INCH, Pipe Class - A97A.	M	75			
34	C999.99.99V24	Laying and jointing of above ground carbon steel pipes, all fittings and specials including transportation of all material to work site, cutting of pipes, edge preparation, surface preparation and painting with fire red paint as per painting specifications and with shade no. 536 of IS : 5 for finish coat red paint on pipes and specials, laying the pipes of all type and thickness over pipe supports/sleepers to required alignment and levels, welding the same after laying, including 10% radiography, providing reinforcing pad as per piping material specifications, installation of flanges (including break-up flanges wherever	M	150			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
35	C999.99.99V25	necessary), tapping for pressure gauges, temperature gauges etc., fixing of nuts, bolts, gaskets and washers, welding etc. wherever required and all other online instruments & fittings like elbows, reducers, tees, drains, etc. cutting of roads wherever required and making good the same, painting of field joints, hydrostatic testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 6 INCH, Pipe Class - A97A FABRICATION AND ERECTION OF PIPING (SPEC NO.6-65-0030 AND 6-44-0012):Laying and jointing of black steel tubes/ ERW pipes/fabricated steel pipes, fittings and specials including transportation of all materials, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches , valve pits, saddles, manholes etc. ,cutting of pipes if required , edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642CTTAPE-C10 on pipes and specials, laying the pipes in trenches/ under the roads to required alignment and levels, welding the same after laying, including 10%radiography, installation of elbows, corrosion protection tape coating of field joints, cutting of roads wherever required and making good the same, hydrostatic testing of the system flushing ,drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specs. And instructions of the Engineer -in-charge, etc.(Pipe & elbows shall be supplied by Client & balance all materials shall be supplied by the contractor at his own cost) (10 % radiography for fire water line shall	M	70			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
36	C999.99.99V26	be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 6 INCH, Pipe Class - A97A Laying and jointing of above ground carbon steel pipes, all fittings and specials including transportation of all material to work site, cutting of pipes, edge preparation, surface preparation and painting with fire red paint as per painting specifications and with shade no. 536 of IS : 5 for finish coat red paint on pipes and specials, laying the pipes of all type and thickness over pipe supports/sleepers to required alignment and levels, welding the same after laying, including 10% radiography, providing reinforcing pad as per piping material specifications, installation of flanges (including break-up flanges wherever necessary), tapping for pressure gauges, temperature gauges etc., fixing of nuts, bolts, gaskets and washers, welding etc. wherever required and all other online instruments & fittings like elbows, reducers, tees, drains, etc. cutting of roads wherever required and making good the same, painting of field joints, hydrostatic testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 8 INCH, Pipe Class - A97A	M	1900			
37	C999.99.99V27	FABRICATION AND ERECTION OF PIPING (SPEC NO.6-65-0030 AND 6-44-0012):Laying and jointing of black steel tubes/ ERW pipes/fabricated steel pipes, fittings and specials including	M	400			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
38	C999.99.99V28	transportation of all materials, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches , valve pits, saddles, manholes etc. ,cutting of pipes if required , edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642CTTAPE-C10 on pipes and specials, laying the pipes in trenches/ under the roads to required alignment and levels, welding the same after laying, including 10%radiography, installation of elbows, corrosion protection tape coating of field joints, cutting of roads wherever required and making good the same, hydrostatic testing of the system flushing ,drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specs. And instructions of the Engineer -in-charge, etc.(Pipe & elbows shall be supplied by Client & balance all materials shall be supplied by the contractor at his own cost)(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 8 INCH, Pipe Class - A97A Laying and jointing of above ground carbon steel pipes, all fittings and specials including transportation of all material to work site, cutting of pipes, edge preparation, surface preparation and painting with fire red paint as per painting specifications and with shade no. 536 of IS : 5 for finish coat red paint on pipes and specials, laying the pipes of all type and thickness over pipe supports/sleepers to required alignment and levels, welding the same after laying, including 10% radiography, providing reinforcing pad as per piping material specifications, installation of flanges (including break-up flanges wherever necessary), tapping for pressure gauges, temperature gauges etc., fixing of nuts, bolts, gaskets and washers, welding etc. wherever required and all other online instruments & fittings like elbows,	M	60			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
39	C999.99.99V29	reducers, tees, drains, etc. cutting of roads wherever required and making good the same, painting of field joints, hydrostatic testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 10 INCH, Pipe Class - A97A Laying and jointing of above ground carbon steel pipes, all fittings and specials including transportation of all material to work site, cutting of pipes, edge preparation, surface preparation and painting with fire red paint as per painting specifications and with shade no. 536 of IS : 5 for finish coat red paint on pipes and specials, laying the pipes of all type and thickness over pipe supports/sleepers to required alignment and levels, welding the same after laying, including 10% radiography, providing reinforcing pad as per piping material specifications, installation of flanges (including break-up flanges wherever necessary), tapping for pressure gauges, temperature gauges etc., fixing of nuts, bolts, gaskets and washers, welding etc. wherever required and all other online instruments & fittings like elbows, reducers, tees, drains, etc. cutting of roads wherever required and making good the same, painting of field joints, hydrostatic testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class	M	1460			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
40	C999.99.99V30	For Dia - 12 INCH, Pipe Class - A97A FABRICATION AND ERECTION OF PIPING (SPEC NO.6-65-0030 AND 6-44-0012):Laying and jointing of black steel tubes/ ERW pipes/fabricated steel pipes, fittings and specials including transportation of all materials, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches , valve pits, saddles, manholes etc. ,cutting of pipes if required , edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642CTTAPE-C10 on pipes and specials, laying the pipes in trenches/ under the roads to required alignment and levels, welding the same after laying, including 10%radiography, installation of elbows, corrosion protection tape coating of field joints, cutting of roads wherever required and making good the same, hydrostatic testing of the system flushing ,drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the plant boundary limit etc. complete as per drawings, specs. And instructions of the Engineer -in-charge, etc.(Pipe & elbows shall be supplied by Client & balance all materials shall be supplied by the contractor at his own cost) (10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 12 INCH, Pipe Class - A97A	M	200			
41	C999.99.99V31	Laying and jointing of above ground carbon steel pipes, all fittings and specials including transportation of all material to work site, cutting of pipes, edge preparation, surface preparation and painting with fire red paint as per painting specifications and with shade no. 536 of IS : 5 for finish coat red paint on pipes and specials, laying the pipes of all type	M	80			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
42	C999.99.99V32	and thickness over pipe supports/sleepers to required alignment and levels, welding the same after laying, including 10% radiography, providing reinforcing pad as per piping material specifications, installation of flanges (including break-up flanges wherever necessary), tapping for pressure gauges, temperature gauges etc., fixing of nuts, bolts, gaskets and washers, welding etc. wherever required and all other online instruments & fittings like elbows, reducers, tees, drains, etc. cutting of roads wherever required and making good the same, painting of field joints, hydro static testing of the system, flushing, drying the pipeline with compressed air etc. complete as per drawings, codes, specifications and instruction of Engineer-in-charge. (All materials shall be supplied as Free Issue Materials by the OWNER).(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 16 INCH, Pipe Class - A97A FABRICATION AND ERECTION OF PIPING (SPEC NO.6-65-0030 AND 6-44-0012):Laying and jointing of black steel tubes/ ERW pipes/fabricated steel pipes, fittings and specials including transportation of all materials, earthwork in excavation in all types of soil but excluding soft and hard rock for trenches , valve pits, saddles, manholes etc. ,cutting of pipes if required , edge preparation, providing corrosion protection tape coating as per spec no. 6907-0642CTTAPE-C10 on pipes and specials, laying the pipes in trenches/ under the roads to required alignment and levels, welding the same after laying, including 10%radiography, installation of elbows, corrosion protection tape coating of field joints, cutting of roads wherever required and making good the same, hydrostatic testing of the system flushing ,drying the pipeline with compressed air, backfilling the trenches with available earth and disposal of the surplus earth anywhere inside the	M	60			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
43	C999.99.99V33	plant boundary limit etc. complete as per drawings, specs. And instructions of the Engineer -in-charge, etc.(Pipe & elbows shall be supplied by Client & balance all materials shall be supplied by the contractor at his own cost)(10 % radiography for fire water line shall be paid separately as per rate available in piping section) For water system (pressure piping) for following nominal sizes and piping material class For Dia - 16 INCH, Pipe Class - A97A Laying and joining of seamless carbon steel pipes and specials for U/G CBD/ABD system, including transportation of all materials from owner's storage points to work site, cutting of pipes, edge preparation, joining by welding, providing paint as per EIL spec. , laying the pipes on floor of Naptha Unloading Pump House to required alignment and levels on concrete sleeper, welding the same after laying, including 10% radiography, installation of flanges, fixing of nuts, bolts, gaskets and washers, painting of field joints with paint, hydrostatic testing of system, flushing, draining, drying the pipe line with compressed air etc., all complete as per drawings, specifications and instructions of engineer-in-charge including return of all unused/scrap pipes to owner's storage points.(Pipes & all fittings like elbows, flanges etc shall be supplied by the OWNER as free issue material)(10 % radiography for CBD/ABD line shall be paid separately as per rate available in piping section) For following Nominal Dia and Pipe Class (Dia - 2 INCH Pipe Class - A1A)	M	55			
44	C999.99.99V34	Laying and joining of seamless carbon steel pipes and specials for U/G CBD/ABD system etc. as per std. No. 765-0269 including transportation of all materials from owner's storage points to work site, earthwork in excavation in all types of soil but excluding soft rock and hard rock for trenches, cleanout etc. cutting of pipes if required, edge	M	18			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
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45	C999.99.99V35	preparation, joining by welding, providing paint as per EIL spec. , laying the pipes in trenches to required alignment and levels, welding the same after laying, including 10% radiography, installation of flanges, fixing of nuts, bolts, gaskets and washers, painting of field joints with paint, hydrostatic testing of system, flushing, draining, drying the pipe line with compressed air, supply and filling gravel around the pipe, back filling the trenches with available earth and disposal of surplus earth within a lead of 1.0 Km etc. complete as per drawings, specifications and instructions of engineer-in-charge including return of all unused/scrap pipes to owner's storage points.(Pipes & elbows shall be supplied by the owner as free issue material) (10 % radiography for CBD/ABD line shall be paid separately as per rate available in piping section) For following Nominal Dia and Pipe Class (Dia - 4 INCH Pipe Class - A1A) Laying and joining of seamless carbon steel pipes and specials for U/G CBD/ABD system, including transportation of all materials from owner's storage points to work site, cutting of pipes, edge preparation, joining by welding, providing paint as per EIL spec. , laying the pipes on floor of Naptha Unloading Pump House to required alignment and levels on concrete sleeper, welding the same after laying, including 10% radiography, installation of flanges, fixing of nuts, bolts, gaskets and washers, painting of field joints with paint, hydrostatic testing of system, flushing, draining, drying the pipe line with compressed air, all complete as per drawings, specifications and instructions of engineer-in-charge including return of all unused/scrap pipes to owner's storage points.(Pipes & all fittings like elbows, flanges etc shall be supplied by the OWNER as free issue material)(10 % radiography for CBD/ABD line shall be paid separately as per rate available in piping section) For following Nominal Dia and Pipe Class (Dia - 4 INCH Pipe Class -A1A)	M	25			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
46	C999.99.99V36	Installation of medium velocity fixed water spray nozzles along with matching reducing TEE to connect with water spray ring including transportation to worksite, cutting of pipes, welding / connecting to pipe, performance testing of the system, flushing etc. conforming specifications and directions of Engineer-in- Charge. For all capacity of Medium velocity Water Spray Nozzles.	EACH	1600			
47	C999.99.99V37	Installation of T-strainers in position including transportation of material to worksite as per drawings including fixing of nuts, bolts and gaskets etc. complete as per drawings, specifications and directions of Engineer-in-Charge. For following nominal pipe sizes and pipe class (Nominal Size - 4 INCH Pipe Class - A97A)	EACH	2			
48	C999.99.99V38	Installation of T-strainers in position including transportation of material to worksite as per drawings including fixing of nuts, bolts and gaskets etc. complete as per drawings, specifications and directions of Engineer-in-Charge. For following nominal pipe sizes and pipe class (Nominal Size - 8 INCH Pipe Class - A97A)	EACH	50			
49	C999.99.99V39	Supplying, laying and fixing of GI above ground water spray pipe and fittings , jointing with white lead and yarn, socket and screw and/or flanged joints including bends, elbows, tee's, reducers, sockets, unions, break-up flange and other specials, fixing spray pipe with pipe supporting civil-structures(like structural steel, U-hook and bolts, R/f steel, RCC etc), cutting pipes to required lengths, making connections, threading, painting, hydrostatic testing etc. complete as per specifications, drawings and directions of Engineer-in-Charge.(All materials shall be supplied by the contractor, however only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural Schedule of Rates)	M	355			

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					Figures	Words	
50	C999.99.99V40	For following nominal pipe size and Pipe Class (Pipe size - 15 MM Piping Class -J2A) Supplying, laying and fixing of GI above ground water spray pipe and fittings , jointing with white lead and yarn, socket and screw and/or flanged joints including bends, elbows, tee's, reducers, sockets, unions, break-up flange and other specials, fixing spray pipe with pipe supporting civil-structures(like structural steel, U-hook and bolts, R/f steel, RCC etc), cutting pipes to required lengths, making connections, threading, painting, hydrostatic testing etc. complete as per specifications, drawings and directions of Engineer-in-Charge.(Only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural schedule of Rates)(All materials shall be supplied by the contractor, however only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural Schedule of Rates) For following nominal pipe size and Pipe Class (Pipe size - 40MM Piping Class - J2A)	M	630			
51	C999.99.99V41	Supplying, laying and fixing of GI above ground water spray pipe and fittings , jointing with white lead and yarn, socket and screw and/or flanged joints including bends, elbows, TEE's, reducers, sockets, unions, break-up flange and other specials, fixing spray pipe with pipe supporting civil-structures(like structural steel, U-hook and bolts, R/f steel, RCC etc), cutting pipes to required lengths, making connections, threading, painting, hydrostatic testing etc. complete as per specifications, drawings and directions of Engineer-in-Charge.(Only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural schedule of Rates)(All materials shall be supplied by the contractor, however only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural Schedule of Rates) For following nominal pipe size and Pipe Class	M	200			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
52	C999.99.99V42	(Pipe size - 50MM Piping Class - J2A) Supplying, laying and fixing of GI above ground water spray pipe and fittings , jointing with white lead and yarn, socket and screw and/or flanged joints including bends, elbows, tee's, reducers, sockets, unions, break-up flange and other specials, fixing spray pipe with pipe supporting civil-structures(like structural steel, U-hook and bolts, R/f steel, RCC etc), cutting pipes to required lengths, making connections, threading, painting, hydrostatic testing etc. complete as per specifications, drawings and directions of Engineer-in-Charge.(Only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural schedule of Rates)(All materials shall be supplied by the contractor, however only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural Schedule of Rates) For following nominal pipe size and Pipe Class (Pipe size - 65MM Piping Class - J2A)	M	350			
53	C999.99.99V43	Supplying, laying and fixing of GI above ground water spray pipe and fittings , jointing with white lead and yarn, socket and screw and/or flanged joints including bends, elbows, tee's, reducers, sockets, unions, break-up flange and other specials, fixing spray pipe with pipe supporting civil-structures(like structural steel, U-hook and bolts, R/f steel, RCC etc), cutting pipes to required lengths, making connections, threading, painting, hydrostatic testing etc. complete as per specifications, drawings and directions of Engineer-in-Charge.(Only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural schedule of Rates)(All materials shall be supplied by the contractor, however only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural Schedule of Rates) For following nominal pipe size and Pipe Class(Pipe size - 80MM Piping Class - J2A)	M	190			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
54	C999.99.99V44	Supplying, laying and fixing of GI above ground water spray pipe and fittings , jointing with white lead and yarn, socket and screw and/or flanged joints including bends, elbows, tee's, reducers, sockets, unions, break-up flange and other specials, fixing spray pipe with pipe supporting civil-structures(like structural steel, U-hook and bolts, R/f steel, RCC etc), cutting pipes to required lengths, making connections, threading, painting, hydrostatic testing etc. complete as per specifications, drawings and directions of Engineer-in-Charge.(Only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural schedule of Rates)(All materials shall be supplied by the contractor, however only Structural steel, bolts, U-hooks & R/f steel shall be paid separately as per structural Schedule of Rates) For following nominal pipe size and Pipe Class (Pipe size - 100MM Piping Class - J2A)	M	150			
55	C999.99.99V45	Installation of Carbon steel Butterfly valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gaskets, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point (Valves along with accessories shall be supplied by Owner as free issue material). C.S. Butterfly Valves for following Nom. Size and Pipe material Class (Dia - 10 INCH Pipe Class - A97A)	EACH	1			
56	C999.99.99V46	Installation of Carbon steel Check valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gasket ,washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point(Valves along with accessories shall be supplied by Owner as free issue material). C.S. Check Valves for following Nom. Size and Pipe material Class (Dia - 3 INCH Pipe class - A97A)	EACH	2			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
57	C999.99.99V47	Installation of Carbon steel Check valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gasket, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point (Valves along with accessories shall be supplied by Owner as free issue material). C.S. Check Valves for following Nom. Size and Pipe material Class (Dia - 10 INCH Pipe class - A97A)	EACH	5			
58	C999.99.99V48	Installation of Carbon steel Gate valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gaskets, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point (Valves along with accessories shall be supplied by Owner as free issue material). C.S. Gate Valves for following Nom. Size and Pipe material Class (Dia - 3/4 INCH Pipe Class - A97A)	EACH	52			
59	C999.99.99V49	Installation of Carbon steel Gate valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gaskets, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point (Valves along with accessories shall be supplied by Owner as free issue material). C.S. Gate Valves for following Nom. Size and Pipe material Class (Dia - 4 INCH Pipe Class - A97A)	EACH	82			
60	C999.99.99V50	Installation of Carbon steel Gate valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gaskets, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point (Valves along	EACH	50			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
61	C999.99.99V51	with accessories shall be supplied by Owner as free issue material). C.S. Gate Valves for following Nom. Size and Pipe material Class (Dia - 8 INCH Pipe Class - A97A)	EACH	2			
62	C999.99.99V52	Installation of Carbon steel Gate valves in position including transportation of the material from Owner's storage point to worksite, fixing of nuts, bolts, gaskets, washers etc. complete as per drawings, specifications and directions of Engineer-in-Charge including return of all unused / surplus materials to Owner's storage point (Valves along with accessories shall be supplied by Owner as free issue material). C.S. Gate Valves for following Nom. Size and Pipe material Class (Dia - 8 INCH Pipe Class - A96A)	CUM	6			
63	C999.99.99V53	Manufacturing, transporting, supply and erecting in position Reinforced Cement Concrete Precast Elements such as cover slabs, pipe sleepers, etc. of M-25 grade with 20mm and down size graded crushed stone aggregates for all leads, levels, shapes and thickness including all moulds, shuttering and centering, vibrating, tamping, curing, chamfering wherever required, finishing the top surface with maximum 13mm thick cement mortar 1:3 (1 cement : 3 sand) to give a smooth and even surface or non-skid finish as specified, providing lifting hooks, metal inserts, making holes, pockets (only M.S. inserts to be measured separately) transporting to SITE, erecting, levelling, aligning and fixing in position with cement mortar 1:3 (1 cement: 3 coarse sand), breaking bricks and/or concrete surfaces and making good the same etc. all complete (excluding the Cost of providing and fixing reinforcement) as per drawings, Specifications and direction of Engineer-in-Charge.(All material including cement supplied by the contractor)Each unit weighing up to and inclusive of 500 kg.	CUM	110			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
64	C999.99.99V54	pipe sleepers, etc. of M-25 grade with 20mm and down size graded crushed stone aggregates for all leads, levels, shapes and thickness including all moulds, shuttering and centering, vibrating, tamping, curing, chamfering wherever required, finishing the top surface with maximum 13mm thick cement mortar 1:3 (1 cement : 3 sand) to give a smooth and even surface or non-skid finish as specified, providing lifting hooks, metal inserts, making holes, pockets (only M.S. inserts to be measured separately) transporting to SITE, erecting, levelling, aligning and fixing in position with cement mortar 1:3 (1 cement: 3 coarse sand), breaking bricks and/or concrete surfaces and making good the same etc. all complete (excluding the Cost of providing and fixing reinforcement) as per drawings, Specifications and direction of Engineer-in-Charge.(All material including cement supplied by the contractor)Each unit beyond 500 kg and up to and inclusive of 1000kg. Manufacturing, transporting, supply and erecting in position Reinforced Cement Concrete Precast Elements such as cover slabs, pipe sleepers, etc. of M-25 grade with 20mm and down size graded crushed stone aggregates for all leads, levels, shapes and thickness including all moulds, shuttering and centering, vibrating, tamping, curing, chamfering wherever required, finishing the top surface with maximum 13mm thick cement mortar 1:3 (1 cement : 3 sand) to give a smooth and even surface or non-skid finish as specified, providing lifting hooks, metal inserts, making holes, pockets (only M.S. inserts to be measured separately) transporting to SITE, erecting, levelling, aligning and fixing in position with cement mortar 1:3 (1 cement: 3 coarse sand), breaking bricks and/or concrete surfaces and making good the same etc. all complete (excluding the Cost of providing and fixing reinforcement) as per drawings, Specifications and direction of Engineer-in-Charge.(All material including cement supplied by the contractor)Each unit beyond 1000 kg and up to and inclusive of 2000kg.	CUM	4			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
65	C999.99.99V55	Supplying and filling approved SAND of specified quality under floors, in foundations, plinths, tank foundations etc. for all depths and heights including cost of sand, royalties, transportation to site for all leads and lifts, including loading, unloading, spreading in layers of loose thickness not exceeding 150 mm, watering, ramming, compacting with mechanical compactors and/or other equipment to the specified levels to achieve 85% relative density as per IS:2720 Part XIV, including preparation of sub-grade to the required slope, providing testing apparatus and testing the degree of consolidation all complete as per drawings, specifications and direction of Engineer-in charge. The rates shall be inclusive of the cost of all labour, material, equipments etc. all complete	CUM	100			
66	C999.99.99V56	Providing and laying Reinforced Cement Concrete with 20mm and down size graded crushed stone aggregates in flooring, pavements etc. including leaving pockets, if necessary, making recess/drain, laying in alternate panels, etc. for all depths including shuttering, tamping, curing, etc. as specified in any shape, thickness, position and finishing the top surface smooth etc. all complete as per drawings, specifications and directions of Engineer-in-Charge. For RCC of M-30 grade concrete (All materials including cement but excluding cost of providing & fixing reinforcement and joint sealing shall be supplied by the contractor).	CUM	35			
67	C999.99.99V57	Supplying and laying of stone aggregate of 63mm down to 45mm size for WBM layer Base Course, tough, sound, clean and durable including cost of stone aggregate, all royalties, taxes, handling, transportation to site, unloading the same by the side of road with all leads and lifts, spreading and laying to form water bound macadam in one layer of 75mm compacted thickness to proper grade, camber and level, binding the surface with binding material of Plasticity Index up to 6.0 including cost of supply of screening and binding material,	SQM	360			

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S.No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
68	C999.99.99V58	consolidating with power driven road roller, watering, with all leads and lifts including preparation of camber below sub-grade etc. complete as per drawings, specifications and directions of Engineer-in-Charge.	M	9			
69	C999.99.99V59	Providing joints in pavements and around foundations as per std no.7-65-404 including cleaning the joints of all loose materials and sealing with SHALIJET or approved equivalent sealing compound conforming to IS: 1834 Type B and providing 20 thk. Impregnated fibre board as required etc. complete as per drawings, specifications and directions of Engineer -in- Charge. Construction joints 20mm wide x 25mm deep.					
		Installation of vent pipe with goose neck over RCC slab of OWS/CRWS cover sump or any other pit including cutting, bending, fabrication, welding, painting, transporting etc complete for making vent pipe with goose neck from A96A carbon steel pipe as per drawing& instruction of engineer-in-charge. (A96A carbon steel pipe shall be supplied as a free issue material by the OWNER.) For dia 6 inch, vent pipe with goose neck, pipe class A96A.	EACH	4			

Schedule of Rates
for
Structural Works

TENDER : Composite Works for Railway Siding Terminal at Lepetkata.		0				MLP	MLP
		REV	DATE	PURPOSE	BY	CHECKED	APPROVED
 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES		Rev
		Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: STRUCTURAL	6907-160-52-48-SR450		0
					SHEET 1 OF 11		

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	S000.00.00	CIVIL & STRUCTURAL					
2	S001.00.00	EARTH WORK (REFER SPECIFICATION NO. 6-68-0003)					
3	S001.01.00	Earthwork excavation in soil					
4	S001.01.01	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth upto 1.5m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	Cu.m.	485			
5	S001.01.02	Earth work in EXCAVATION below ground level for all kinds of works in ALL TYPES OF SOILS EXCEPT SOFT ROCK AND HARD ROCK as classified in specification for a depth beyond 1.5m and upto and inclusive of 3.0m including removal of vegetation, shrubs and debris, cutting and dressing of sides in slopes, levelling, grading and ramming of bottoms, dewatering of accumulated water from any source and keeping the surface dry for subsequent works and disposal or stacking of excavated material within a lead of 100m, as directed including providing temporary supports to existing service lines like water pipes, sewage pipes, electric overhead and underground cables etc. all complete, but excluding shoring and strutting.	Cu.m.	10			
6	S001.07.00	Backfilling after execution of work					

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				Project : BCPL CRACKER COMPLEX, ASSAM		
				Div.: RO-KOLKATA Dept.: STRUCTURAL		

S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
7	S001.07.01	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps within a LEAD OF 100M, including re- excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/ mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	Cu.m.	320			
8	S001.07.02	BACKFILLING after execution of the WORK to proper grade and level with selected materials from available excavated soil from spoil heaps beyond a LEAD OF 100M AND UPTO & INCLUSIVE OF 500M including re-excavating the deposited soil excavated earlier, breaking clods, laying at all depths and heights in layers of thickness not exceeding 15 Cms. watering, rolling and ramming by manual methods/mechanical compactors to achieve 90% laboratory maximum dry density, dressing, trimming etc. in foundations, plinths, trenches, pits etc. all complete.	Cu.m.	5			
9	S002.00.00	PLAIN & REINFORCED CEMENT CONCRETE: (REFER SPECIFICATION NO. 6-68-0004)					
10	S002.17.00	PCC - Non FIM Items					
11	S002.17.01	Providing and laying PLAIN CEMENT CONCRETE for all depths below and upto plinth level in foundations, drains, fillings, non-suspended floors, pavements & ramps or any other works etc. including shuttering, tamping, ramming, vibrating, curing etc. all as specified in any shape, position, thickness and finishing the top surface rough or smooth as specified and directed all complete for concrete of nominal mix 1:5:10 by mass (1 Cement: 5 Coarse Sand: 10 Crushed Stone Aggregates/Gravels)	Cu.m.	10			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
12	S002.17.05	with 40mm and down size graded crushed stone aggregates/Gravels.ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR. Providing and laying PLAIN CEMENT CONCRETE of nominal mix 1:3:6 by mass (1 Cement : 3 Sand : 6 Crushed Stone Aggregates) with 10mm and down size graded crushed stone aggregates below and upto plinth level as SCREED in trenches, floor slabs, sumps, channels, drains etc. for all depths including shuttering, tamping, curing etc. as specified in any shape, level, thickness, position and finishing the top surface smooth etc. all complete as directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.	Cu.m.	8			
13	S002.18.00	RCC Substrutures - Non FIM Items					
14	S002.18.17	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUB-STRUCTURE e.g. foundations, raft, beams, slabs, pile caps, retaining walls, dyke walls, jambs, counterforts, buttresses, pedestals, pipe sleepers, columns, suspended floors, staircases, landings, steps, brackets etc., including equipment/ machine foundations & pedestals viz. compressors, ID & FD fans, pumps, generators, crushers, mills, etc., (including single pour concreting as specified on the drawing), applying cement wash on concrete surface (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering, etc., wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT, SHUTTERING & SPECIFIED ADMIXTURES) for all depths below and upto plinth level in any shape, position and thickness etc. all complete as	CUM	30			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
15	S002.19.00	specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR. RCC Superstructures - Non FIM Items	CUM	30			
16	S002.19.17	Providing and laying REINFORCED CEMENT CONCRETE OF M-30 GRADE with 20 mm and down size graded crushed stone aggregates/ gravel in SUPER STRUCTURE in suspended floors, slabs, beams, columns, walls including counterforts, staircases, landings, steps, facias, fins, mouldings, gutters, shelves, window sills, canopies, lintels, girders, ducts, brackets, chajjas with drip moulds, pedestals, posts, struts, equipment/ machine foundations, ramps etc. (including single pour concreting as specified on the drawing), providing cement wash (wherever no other surface application is specified), providing pockets, openings, recesses, chamfering wherever required, vibrating, tamping, curing and rendering if required to give a smooth and even surface etc. (EXCLUDING THE COST OF REINFORCEMENT, SHUTTERING AND SPECIFIED ADMIXTURES) FOR ALL HEIGHTS UPTO & INCLUSIVE OF 20 m ABOVE PLINTH LEVEL in any shape, position, thickness etc. all complete as specified, shown and directed. ALL MATERIALS INCLUDING CEMENT SUPPLIED BY THE CONTRACTOR.					
17	S002.23.00	HYD Bars / MS Bars - Non FIM Items	MT	30			
18	S002.23.06	Supplying and placing in position HIGH STRENGTH DEFORMED STEEL BARS REINFORCEMENT (conforming to IS:1786, Grade Fe 500), for R.C.C. work including transporting the Steel, straightening, cleaning, decoiling, cutting, bending to required shapes and lengths as per details, binding with contractor's own 18 SWG black soft annealed binding wire at every intersection,					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
19	S002.25.00	supplying and placing with proper cover blocks, supports, chairs, overlaps, welding, spacers, fanhooks etc. for all heights and depths etc. all complete as directed.(SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE).					
20	S002.25.01	Centering and Shuttering - Non FIM Items					
		Providing and fixing CENTERING AND SHUTTERING in foundations, footings,raft beams, slabs, pile caps, retaining walls, jambs, counter-forts, buttresses, trenches, equipment/machine foundations, pedestals, abutments, pipe sleepers, columns, plinth beams, lintels, suspended slabs, beams, staircases, landings, steps, non-circular tunnels/bunkers/ silos/ shafts/ hoppers/liquid storage structures etc. for all depths below and upto & inclusive of plinth level including shuttering for single pour concreting, strutting, bracing, propping etc., keeping the same in position during concreting and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all complete and as specified and directed.	Sq.m.	50			
21	S002.25.02	Providing and fixing CENTERING AND SHUTTERING in superstrctures in retaining walls, jambs, counter-forts, buttresses, equipment/ machine foundations, abutments,columns, lintels, suspended slabs, beams, staircases, landings, steps, non-circular tunnels/ bunkers/ silos/ shafts/ hoppers/ liquid storage structures etc. for all heights above plinth level including shuttering for single pour concreting, strutting, bracing, propping etc., keeping the same in position during concreting and removal of the same after specified period etc. for Straight/ Inclined Shuttering, keeping necessary provision for inserts, projecting dowels, anchor bolts or any other fixture etc. all	Sq.m.	50			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
22	S004.00.00	complete and as specified and directed. STRUCTURAL STEEL WORKS (REFER SPECIFICATION NO. 6-68-0006)	MT	15			
23	S004.03.00	General Steel Works - Non FIM Items					
24	S004.03.03M02	Supplying, transporting, storing, fabricating & erecting in position and testing/ examining bolted and/ or welded STRUCTURAL STEEL WORKS at all levels and locations including all builtup sections/ compound sections made out of rolled sections and/or plates/ bent plates in trusses, purlins, wind ties, wind girders, U-hooks with nut & bolts, columns, portals, racks, frameworks, crane gantries, surge girders, bracings, floor beams, lifting beams, monorails, platforms, staircases (excluding chequered plates and gratings), ladders, stoppers, brackets, side runners, sagrods, supports for equipments and technological accessories and process piping, hand railings, posts, conveyor galleries, trestles, towers, masts, junction houses etc., cutting to required size, straightening/ bending if required, edge preparation, cleaning, preheating, bolting/welding of joints, (including sealing the joints of box sections with continuous welding), finishing edges by grinding, fixing in line and level with temporary staging & bracing and removal of the same after erection, grouting with Ordinary Grout or premix free flow Nonshrink Grout as specified, including preparation and submission of detailed fabrication drawings, preparing the surface for painting and applying shop primer as per Specification No.6907-0642-PL-L07,after fabrication etc. all complete. SUPPLY OF ALL MATERIAL IN CONTRACTOR'S SCOPE.					
25	S004.04.00	Painting - Non FIM Items	MT	15			
26	S004.04.05M01	Supplying and applying FINISH PAINT of approved					

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
27	S006.00.00	quality and shade including a coat of primer as per Specification No.6907-0642-PL-L07, REV.0 over one coat of shop primer already applied, including storage, surface preparation, degreasing, cleaning, drying, touching up of shope primer coat, providing temporary staging, scaffolding, testing etc.for steel structure at all levels and locations, all complete as specified.					
28	S006.15.00	MISCELLANEOUS STEEL WORKS (REFER SPECIFICATIONS NO. 6-68-0008)					
29	S006.15.01	Anchor Bolts - Non FIM Items					
		Supplying, fabricating, fixing and keeping in position at all levels and locations THREADED ANCHOR BOLTS of all diameters and nomenclature including nuts, washers, anchor plates, pipe sleeves etc. in foundations, columns, pedestals, slabs, beams, walls etc. or any other place as directed including handling & transporting, straightening if required, turning from relevant size M.S. rounds to required diameter, threading, welding, providing necessary templates and auxilliary dummy structures, if any, necessary tying and welding with reinforcement, adjustment of shuttering & reinforcement/any other fixture, greasing exposed metal surfaces, covering bolts and packing the sleeves with jute cloth etc. all complete as specified and directed.(SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	MT	1			
30	S006.16.00	MS Metal Inserts - Non FIM Items					
31	S006.16.01M01	Supplying, transporting, storing, fabricating and fixing in position M.S. METAL INSERT (with lugs) of any shape made out of flats, plates, rolled sections, pipes etc. providing necessary templates, staging, cutting, straightening, if required, bolting, welding as required and embedding in position on both Plain and Reinforced	MT	3.5			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
32	S006.19.00	Cement concrete members inclusive of adjusting shuttering & reinforcement/ any other fixture, welding where necessary, tying and holding to correct level, line and position, any auxilliary dummy structures to support the heavy inserts, painting exposed surfaces with a coat of primer as per Specification No. 6907-0642-PL-L07, REV.0 etc. all complete for all depths and heights as specified and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).					
33	S006.19.05M01	MS Grating Cat. A,B - Non FIM Items					
		Supplying, fabricating and erecting in position at all levels and locations bolted, clamped and/or welded ELECTROFORGED HOT DIPPED GALVANIZED MS GRATING CATEGORY A (fabricated as per EIL drawings/standards) made out of M.S. flats/M.S. flats with M.S. rounds in walkways, platforms, stair treads etc. including cutting to required size, shape, making holes, notches, openings of required size, nosing, straightening if required, making the edges smooth, removing the burrs, fabricating clamps, fixing, tack welding, preparation and submission of fabrication drawings and preparing the surfaces for galvanasing, surface cleaning, wire brushing, removal of mill scale, dust rust, oil or grease and GALVANISING as specified after fabrication etc. all complete as specified and directed (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).	MT	1.5			
34	S006.23.00	Hand Railing 1000mm - Non FIM Items					
35	S006.23.01M01	Supplying, fabricating and fixing in position at all locations 1000mm high HAND RAILING (for staircases) consisting of top rail, mid rail and vertical posts (Maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including	m	20			

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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
36	S006.24.00	straightening if required, cutting, bending, welding, bolting, grouting with ordinary grout, cleaning, surface preparation, shop primer as per Specification No.6907-0642-PL-L07, REV.0 preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE).(Complete handrail work shall be measured as length of top rail only and not length of each element fixed).					
37	S006.24.01M01	Hand Railing 500mm - Non FIM Items					
38	S018.00.00	Supplying, fabricating and fixing in position at all locations 500mm HIGH HAND RAILING (for stair cases) consisting of top rail & vertical posts (maximum spacing 1500mm c/c) with 32mm nominal diameter medium grade M.S. Tubes conforming to IS:1239 including straightening if required, cutting, bending, welding, surface preparation, shop primer as per Specification No.6907-0642-PL-L07 REV.0, preparation and submission of fabrication drawings etc. all complete as specified, shown and directed. (SUPPLY OF ALL MATERIALS IN CONTRACTOR'S SCOPE). (Complete handrail work shall be measured as length of top rail only and not length of each element fixed).	m	30			
39	S018.09.00	MECHANICAL WORKS.					
40	S018.09.02	Dismantling Of steel works					
		Dismantling of bolted/welded structural steel work at all levels and locations taking all necessary precautions for safety under the direction of Engineer-in-Charge, in platforms, brackets, gratings, beams, girders, columns, trusses, ladders, purlins, bracings, handrailings etc. including cutting (by flame or saw) gusset plates, bolts,	MT	0.5			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp	Date	Bidder's Signature	Client : BRAHMPUTRA CRACKER & POLY.LT	SCHEDULE OF RATES		Rev
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S. No.	Item No	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
41	S018.10.00	nuts, welded connections etc, stacking all serviceable materials within a lead of 100M, disposing off the unserviceable/scrap material to any point within the complex premises, providing necessary scaffolding and temporary bracing as required, all complete as directed. Note: The weight of dismantled structural steel shall be measured only once for purpose of this clause.					
42	S018.10.03	Chipping of Reinforced Cement Concrete works					
		Chipping of reinforced cement concrete works, beyond 50mm thickness and upto & inclusive of 200mm thickness, by manual or pneumatic chiselling, after taking all necessary precautions for safety, in floors, pavements, foundations, super structures etc. prior to construction of miscellaneous pipe supports, including exposing the reinforcement bars, cutting and cleaning them by wire brushing supplying & erecting necessary temporary scaffolding and removing them after completion of work, disposal of the debris to any point within the complex premises, all complete as directed.	Sqm	15			
43	S018.10.04	Chipping of reinforced cement concrete works, beyond 200mm thickness, by manual or pneumatic chiselling, after taking all necessary precautions for safety, in floors, pavements, foundations, super structures etc. prior to construction of miscellaneous pipe supports, including exposing the reinforcement bars, cutting and cleaning them by wire brushing supplying & erecting necessary temporary scaffolding and removing them after completion of work, disposal of the debris to any point within the complex premises, all complete as directed.	Sqm	15			

 ENGINEERS INDIA LTD KOLKATA	Bidder's Stamp			Client : BRAHMPUTRA CRACKER & POLY.LT Project : BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES		Rev
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Schedule of Rates For Electrical Works

TENDER: Composite Works for Railway Siding Terminal at Lepetkata.						
	0	25.07.2014	Issued with Tender	PM	ST	ST
	Rev.	Date	Purpose	By	Checked	Approved

 ENGINEERS INDIA LIMITED (A Govt. of India Undertaking)				Client: BRAHMPUTRA CRACKER & POLY.LTD. Project: BCPL CRACKER COMPLEX, ASSAM	SCHEDULE OF RATES 6907-160-52-50-SR450	REV. 0
	Bidder's Stamp	Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: ELECTRICAL	Page 1 of 3	

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S. No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
1	EE	ELECTRICAL					
2	01.00.00	POWER PANELS					
3	01.01.00	Supply, installation, connection, testing and commissioning of safe area power panel, surface mounting type in dust tight (with hinged cover) sheet steel enclosure having 415V, 3-Ph, 4-pole incomer and 240V, 1-ph, single pole MCB (9 kA type) for outgoing circuit control with complete wiring, including cable termination, connection and supply & fixing of cable glands & lugs, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-charge.					
4	01.01.01	40A, 4-pole incomer MCB isolator with ELCB (300 mA) and 12 nos., 32A outgoing single pole MCBs.	Nos.	1			
5	02.00.00	WIRING					
6	02.01.00	Circuit wiring with 660V grade (size given below) PVC insulated copper wires in already laid surface conduit from power panel onwards including the supply of wires, termination and connection, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-Charge.					
7	02.01.01	1C x 6 sq. mm (For Phase & Neutral)	M	300			
8	02.01.02	1C x 1.5 sq. mm (For Earthing)	M	150			
9	03.00.00	CONDUITS					
10	03.01.00	Supply and laying of (surface type) approved make black enamelled steel conduit of following diameter and associated fittings from power panel, including supply of G.I. sheet steel junction boxes with acrylic					

 ENGINEERS INDIA LIMITED (A Govt. of India Undertaking)				Client: BRAHMPUTRA CRACKER & POLY.LTD.	SCHEDULE OF RATES	REV.
				Project: BCPL CRACKER COMPLEX, ASSAM	6907-160-52-50-SR450	0
	Bidder's Stamp	Date	Bidder's Signature	Div.: RO-KOLKATA Dept.: ELECTRICAL	Page 2 of 3	

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S. No.	Item No.	Description of Items	Unit	Quantity	Rate in Rupees		Amount in Rs.
					Figures	Words	
11	03.01.01	cover, pull wire, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-charge. 40 mm diameter.	M	75			
12	04.00.00	AC STARTER					
13	04.01.00	Supply, installation, connection, testing and commissioning of following surface mounted 240V, single phase MCB units for AC start-up, including outlet boxes and associated accessories, including all labour and materials, as per approved drawings, specifications of this tender and directions of Engineer-in-charge.					
14	04.01.01	32A, DP MCB unit in moulded case enclosure suitable for 1 Ph Cassette/ split type AC.	Nos.	6			

FORM: SP-2

NAME OF BIDDER: M/s

**NAME OF WORK: COMPOSITE WORKS FOR RAILWAY SIDING TERMINAL OF
BRAHMAPUTRA**

BIDDING DOCUMENT NO. : 6907-160-16-43-PK-T-3001

EXTENDED STAY COMPENSATION

S. NO.	ITEM	RATE
1.0	Rate of Extended Stay Compensation per Month beyond the Time Schedule and grace period mentioned in Bidding Document for reasons solely attributable to Owner.	INR _____ (Per Month)

NOTE:

1. Extended Stay Compensation shall be loaded on the quoted prices as per clause no. 47.0 of Special Conditions of Contract.
2. In case no rate for Extended Stay Compensation is stipulated, it will be considered that Extended Stay Compensation is not required by the Bidder and the rates quoted by them shall be valid till completion of works in all respects.

(STAMP & SIGNATURE OF BIDDER)

FORM SP-3

DETAILS OF CENVATABLE SERVICE TAX

NAME OF WORK: COMPOSITE WORKS FOR RAILWAY SIDING TERMINAL OF BRAHMAPUTRA

BIDDING DOCUMENT NO.: 6907-160-16-43-PK-T-3001

S.No.	Description	AMOUNT OF TAXABLE VALUE OF SERVICES (Base value)	Effective rate of tax (%)	Amount of Cenvatable Service Tax
(a)	(b)	(c)	(d)	(e=cxd)
1	CENVATABLE SERVICE TAX FOR		%	

NOTE:

1. Amount of Cenvatable Service Tax shall not be included by the Contractor in their quoted price. OWNER will reimburse the Cenvatable service tax to the CONTRACTOR against production of original Cenvatable documents as required subject to amount of taxable value of services at Column (c) above. In case any variation in quantities of SOR then this amount shall vary proportionately. This Service Tax component shall be loaded for evaluation.
2. Refer SI No 12.5 of Special conditions of contract(SCC), effective rate of Service Tax under column no (d) shall be indicated by Contractor after considering the applicable rules and follow the provisions of the Service tax including Government of India latest Notifications & subsequent amendments, if any
3. Bidder shall furnish this Form duly filled in all respects along with Price part.
4. Contractor shall indicate total Cenvatable service tax amount payable under the contract in this format. However, if the services fall under the list of services defined in reverse charge mechanism, then the liability of deposition of service tax to the tax authority by the Contractor and the Owner shall be dealt in accordance with Notifications issued by Government of India from time to time

5. In case the applicable amount towards Service Tax as mentioned by the bidder is considered for giving benefit during evaluation of bid as stated above, the bidder must ensure to submit their invoice as per their declared applicable Service Taxes. If the bidder does not pass on the benefit to that extent to BCPL, the differential amount shall be deducted from their bill.

6. Before filling the cenvatable Service Tax above, Contractor is required to go through Clause No. 12.5 of (Special Condition of Contract, SCC)

(SIGNATURE & SEAL OF BIDDER)

FORM SP-4A

DETAILS OF EXCISE DUTY INCLUDED IN QUOTED PRICES FOR INDIGENOUS SUPPLIES

NAME OF WORK: COMPOSITE WORKS FOR RAILWAY SIDING TERMINAL OF BRAHMAPUTRA

BIDDING DOCUMENT NO.: 6907-160-16-43-PK-T-3001

S.No.	DESCRIPTION	Amount on which Excise Duty is applicable (In Rupees)	Amount of Cenvatable Excise Duty Included (In Rupees)
(a)	(b)	(c)	(d)
1	EXCISE DUTY		

NOTE:

1. Above Cenvatable Excise duty amount shall be deducted from the Total Prices for the purpose of evaluation
2. Cenvatable Excise Duty Component mentioned in this FORM shall be considered as mandatory discount and shall be adjusted from all R.A. Bills on prorata basis. The Cenvatable Excise Duty shall be reimbursed to the Contractor upon submission of original Cenvatable documents as required to enable Owner to claim Cenvat benefit subject to the ceiling mentioned in this FORM.
3. Bidder shall furnish this FORM duly filled in all respects along with his Price Part.

(SIGNATURE & SEAL OF BIDDER)

FORM SP-4B

TOTAL CENVATABLE CVD and SAD AMOUNT INCLUDED IN QUOTED PRICES

DETAILS OF EXCISE DUTY INCLUDED IN QUOTED PRICES FOR INDIGENOUS SUPPLIES

NAME OF WORK: COMPOSITE WORKS FOR RAILWAY SIDING TERMINAL OF BRAHMAPUTRA

BIDDING DOCUMENT NO.: 6907-160-16-43-PK-T-3001

S.No.	DESCRIPTION	AMOUNT IN INDIAN RUPEES (IN INR)	
		IN FIGURES	IN WORDS
1	Total Cenvatable CVD		
2	Total Cenvatable SAD		

NOTE :

1. Cenvatable CVD and SAD amount mentioned above shall be furnished only with respect to Imported Supplies, if any, covered under FORM SP-1.
2. Above Cenvatable CVD and SAD amount shall be deducted from the Total Prices for the purpose of evaluation.
3. Cenvatable CVD and SAD amount as mentioned above shall be considered as mandatory discount since the same has been taken into consideration for evaluation and shall be deducted from all running account bills (of Supplies) on prorata basis. The amount of Cenvatable CVD and SAD amount shall be reimbursed to the Contractor on production of all relevant documents in accordance with provision of Bidding Document subject to ceiling mentioned above.
4. Bidder shall consider Marine Insurance @ 1% to arrive at the CIF value and thereby calculate Cenvatable CVD and SAD amount

SIGNATURE & SEAL OF BIDDER