

BOQ CUM PRICE SCHEDULE

Name of Project
Name of Work

: 400kV Substation at Kirnapur
: Construction of Foundations for Structures
(including foundation of peripeherial lighting poles) .

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil. i/c 50 m lead and 1.5 m lift with dressing.	401(b)	Cum	26.00	500.00	13000.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	1000.00	36000.00
3	Excavation in DR i/c 50 m lead and 1.5 m lift with dressing.	403	Cum	71.00	0.00	0.00
4	Excavation in SR i/c 50 m lead and 1.5 m lift with dressing.	404	Cum	122.00	0.00	0.00
5	Excavation in HR i/c 50 m lead and 1.5 m lift with dressing. (a) Blasting permitted	405(a)	Cum	196.00	0.00	0.00
	Excavation in HR i/c 50 m lead and 1.5 m lift with dressing. (b) Blasting prohibited	405(b)	cum	233.00	0.00	0.00
6	Cement concrete 1:4:8 with graded metal of 40 mm size.	717 (b)	Cum	1486.00	20.00	29720.00
7	Cement concrete 1:2:4 with graded metal of 20 mm size.	715 (c)	Cum	2299.00	0.00	0.00
8	Supplying and fixing steel reinforcement bars (tested) R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire)					
	(b) Cold worked steel high strength bars confirming to grade Fe 415 of I.S.1786	1304(b)	Kg	41.00	0.00	0.00
	(a) MS steel bars confirming to grade -I of I.S.432 (Pt-I)	1304(a)	Kg	40.00	500.00	20000.00
	(c) Labour only for binding cold worked steel high strength bars conforming to grade Fe 415 of IS 1786 steel reinforcement bars (tested) for R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire). The rate quoted against this shall deemed to be inclusive of cost against all activities required including transportation of material from (SAIL, TISCO, IISCO, RINL, JINDAL Steel or rerollers approved by main producers) stockyard.	1305(a)	kg	3.30	15000.00	49500.00
9	P/P in position M-20 RCC excluding cost of reinforcement but including ,formwork vibration, finishing, curing etc. complete with graded metal of max.size 20 mm.	1601(b)	Cum	4253.00	150.00	637950.00
10	Steel work in single section including forging and hoisting, fixing in position etc. complete-(b) In angles, channels, flates and tees	1301(b)	Kg.	42.00	0.00	0.00
11	Second class T.M. open bhatta or pajwa burnt brick masonry in C.M. 1:6 in plinth and found for one or half brick wall .	901(e)-906+909	Cum	1677.00	0.00	0.00
12	15mm thick cement plaster on brick work in CM 1:6	1105 c	Sqm	64.00	0.00	0.00
13	Filling foundation and arround masonry works with hard moorum & moorum with boulder including watering and ramming.	703	Cum	95.00	0.00	0.00
14	Filling foundation and arround masonry works with hard moorum picked up noulder including watering and ramming.	705	Cum	195.00	0.00	0.00
15	Labour only for filling foundation and arround masonry works with material obtained from spoils including watering and ramming.	709(a)	Cum	43.00	4000.00	172000.00
16	P&F bolts upto & above 300 mm in length i/c nuts & washers, galvanisation complete.	1336	kg	77.00	25000.00	1925000.00
17	Labour only for P&F bolts upto & above 300 mm in length i/c nuts & washers complete.	1338	Kg	6.60	0.00	0.00
18	Transportation of excavated earth upto 200 m beyond initial lead of 50 mtr.	2902(2)-(a)-2903(4)	Cum	37.26	3000.00	111780.00
	Total Amount					2994950.00

BOQ CUM PRICE SCHEDULE

Name of Project

:400kV Substation at Kirnapur

Name of Work

:Construction For Cable Trenches

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil i/c 50 m lead and 1.5 m lift with dressing.	401(b)	Cum	26.00	2000.00	52000.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	1150.00	41400.00
3	Excavation in DR i/c 50 m lead and 1.5 m lift with dressing.	403	Cum	71.00	0.00	0.00
4	Excavation in SR i/c 50 m lead and 1.5 m lift with dressing.	404	Cum	122.00	0.00	0.00
5	Excavation in HR i/c 50 m lead and 1.5 m lift with dressing. (a) Blasting permitted)	405(a)	Cum	196.00	0.00	0.00
6	Excavation in HR i/c 50 m lead and 1.5 m lift with dressing. (b) Blasting prohibited)	405(b)	Cum	233.00	0.00	0.00
7	PCC 1:4:8 with graded metal of 40mm size	717(b)	Cum	1486.00	0.00	0.00
8	Cement concrete 1:2:4 with graded metal of 20 mm size.	715 (c)	Cum	2299.00	200.00	459800.00
9	Supplying and fixing steel reinforcement bars (tested) R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire)					
	(b) Cold worked steel high strength bars confirming to grade Fe 415 of I.S.1786	1304(b)	Kg	41.00	0.00	0.00
	(c) Labour only for binding cold worked steel high strength bars conforming to grade Fe 415 of IS 1786 steel reinforcement bars (tested) for R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire). The rate quoted against this shall deemed to be inclusive of cost against all activities required including transportation of material from (SAIL, TISCO, IISCO, RINL, JINDAL Steel or rerollers approved by main producers) stockyard.	1305(a)	kg	3.30	0.00	0.00
10	P/P in position M-20 RCC excluding cost of reinforcement but including ,formwork vibration, finishing, curing etc. complete with graded metal of max.size 20 mm.	1601(b)	Cum	4253.00	0.00	0.00
11	Steel work in single section including forging and hoisting, fixing in position etc. complete-(b) In angles, channels, flates and tees	1301(b)	Kg.	42.00	19000	798000.00
12	Second class T.M. open bhatta or pajwa burnt brick masonry in C.M. 1:6 in plinth and found for one or half brick wall .	901(e)-906+909	Cum	1677.00	800.00	1341600.00
13	15mm thick cement plaster on brick work in CM 1:6	1105 c	Sqm	64.00	3700	236800.00
14	Filling foundation and around masonry works with hard moorum & moorum with boulder including watering and ramming.	703	Cum	95.00	0	0.00
15	Filling foundation and around masonry works with hard moorum picked up noulder including watering and ramming.	705	Cum	195.00	0	0.00
16	Labour only for filling foundation and around masonry works with material obtained from spoils including watering and ramming.	709(a)	Cum	43.00	800	34400.00
17	Priming coat with ready mixed paint i/c preparing the surface.	1803	Sqm	19.00	1250	23750.00
18	Painting two or more coats (excluding priming coat) on new surfaces with enamel paint (IS:2933-1975) to give an even shade.	1808	Sqm	27.00	1250	33750.00
19	P&L in position cement concrete with graded metal of max. 20 mm for coping complete (a) 1:2:4 concrete	2455(a)	Cum	4136.00	20	82720.00
	NON USR ITEMS					
1	Providing and Fixing 5mm or 8 mm thick chequered plates of mild steel for cable trench covers, of desired size including fixing of handles, 2 Nos.on each end made of 10mm dia 500mm long MS Bar including making holes in the covers for handles to drop down as per approved drawing including cost of all material, cutting, welding, grinding T&P, taxes transportation complete as per direction of Engineer-in-Charge. (Upto opening of the size of "D" type cable trench, 5 mm thick covers will be used and for opening larger than "D" type trench , 8 mm thick covers will be used)					
	(Base rate : Rs. 75/ per Kg).	NUSR	Kg	75.00	19500.00	1462500.00
2	Providing & Laying of 160 mm diameter heavy duty PVC Pipes beneath the yard capable to withstand minimum pressure 4 Kg. per sq. cm. laid over 75 mm thick plain cement concrete of mix 1:4:8 (1 Cement: 4 sand: 8 metal) , pipe fixed in main trench wall and running upto desired point & secured through fixing of pipe cap or plugging the same by suitable sealing adhesives including all lead & lift and cost of all material, excavation of trench, refilling, compaction, transportation, royalty, taxes, levies, labour charges, T&P and other consumable etc. complete as directed by Engineer-in-charge					
	(Base Rate Rs. 700/- per metre)	NUSR	Mtr	700.00	0.00	0.00
	Total Amount					4566720.00

BOQ CUM PRICE SCHEDULE

Name of Project

:400kV Substation at Kirnapur

Name of Work

:Construction For Yard Fencing

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil i/c 50 m lead and 1.5 m lift with dressing.	401(b)	Cum	26.00	8.00	208.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	20.00	720.00
3	Excavation in DR i/c 50 m lead and 1.5 m lift with dressing.	403	Cum	71.00	0.00	0.00
4	Excavation in SR i/c 50 m lead and 1.5 m lift with dressing.	404	Cum	122.00	0.00	0.00
5	Boring holes with auger for under reamed pile..... (i) For 200 mm dia piles	420(a)(i)- 420(b) (i)	Each	65.00	0.00	0.00
6	Cement concrete1:4:8 with graded metal of 40 mm size.	717(b)	Cum	1486.00	5.00	7430.00
7	Cement concrete1:3:6 with graded metal of 20 mm size.	716(c)	Cum	1854.00	31.00	57474.00
8	Steel work in single section i/c forging, hoisting, fixing in position etc complete (b) In angles, channels, flats and tees.	1301(b)	Kg	42.00	3150	132300.00
9	Supplying and fixing steel reinforcement bars (tested) R.C.C. including cleaning straightening, cutting, bending, all handling,.....rming to I.S.280-1978 (i/c cost of binding wire) (b) Cold worked steel high strength bars confirming to grade Fe 415 of I.S.1786 (a) MS steel bars confirming to grade -I of I.S.432 (Pt-I)	1304(b) 1304(a)	Kg Kg	41.00 40.00	0.00 0.00	0.00 0.00
10	P/P in position M-20 RCC excluding cost of reinforcement but including ,formwork graded metal of max.size 20 mm.	1601(b)	Cum	4253.00	0.00	0.00
11	Priming coat with ready mixed paint brushing Zinc chrome ,priming on new steel /galvanised iron surface i/c preparing the surface.	1803	Sqm	19.00	155	2945.00
12	Painting two or more coats (excluding priming coat) on new surfaces with with enamel paint (IS:2933-1975) to give an even shade.	1808	Sqm	27.00	140	3780.00
13	Filling foundation and arround masonary works with moorum & moorum with boulder including watering and ramming.	703	Cum	95.00	0	0.00
14	Labour only for Filling foundation and arround masonary works with material obtained from spoils including watering and ramming.	709(a)	Cum	43.00	6	258.00
15	Second class T.M. open bhatta or pajwa burnt brick masonary in C.M. 1:6 in plinth and found for one or half brick wall .	901(e)- 906+909	Cum	1677.00	6	10062.00
16	15mm thick cement plaster on brick work in CM 1:6	1105 c	Sqm	64.00	60	3840.00
17	Water Proofing cement paint snowcem or Durocem (Two coats)	1733	Sqm	40.00	60	2400.00
NUSR ITEMS						
1	P/F 2400 mm high chain link mesh 75x75 mm square size of GI wire 4 mm dia confirming to IS specification 2771-1981 including all necessary arrangment for fixing the same to angle iron post as per drawing and direction of Engineer- in- Charge. (Base rate Rs. 300/- per sqm).	NUSR	Sqm	300.00	480	144000.00
2	P&F barbed wire (9.88 Kg per 100 m) to M.S.angle iron post i/c screwing with G.I.tying wire, GI Staples, or steel pins i/c cost of wire, staples, pins, etc. complete at above 2.5 m height as per direction of Engineer-in-charge. (Base rate Rs. 9.00 per m).	NUSR	RM.	9.00	600	5400.00
3	Dismantling of chainlink mesh fencing which include taking out the mesh from the posts including barbed wire and lower & Upper Runner Angles if any, i/c stacking , rolling the mesh and keeping all taken out material at specified place in desired pattern including all labour , T&P, taxes etc as per direction of Engineer in Charge (Base rate Rs. 8/- per sqm).	NUSR	sqm	8.00	0	0.00
4	Taking out RCC Posts of Yard fencing from the embedded pits or piles by excavating the pit or exposing the piles and then separating it from the concrete mass through chieseling , hammering or any other suitable safe method and then stacking it at desired place including all labour , T&P, taxes etc as per direction of Engineer in Charge (Base rate Rs. 40/- per Post).	NUSR	each	40.00	0	0.00
5	Taking out MS Angle Posts of Yard fencing from the embedded pits or piles by excavating the pit or exposing the piles and then separating it from the concrete mass through chieseling , hammering or any other suitable safe method and then stacking it at desired place including all labour , T&P, taxes etc as per direction of Engineer in Charge (Base rate Rs. 35/-- per Post).	NUSR	each	35.00	0	0.00
6	Labour only for fixing of chain link mesh fencing in position on angle iron with nuts, bolts, washer including grouting of angle post if required including cost of nuts,bolts, flat washers of size 100 x 30 x 3mm as required but excluding cost of other material as per direction of Engineer-in-Charge. (Base Rate Rs.20/- per Sqm).	NUSR	sqm	20.00	0	0.00
YARD FENCING CONTINUEDFor 1 No. gate						
Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective fromm 2009	Quantity	Amount(Rs.)
1	Excavation in hard soil i/c 50 m lead and 1.5 m lift with dressing.	401(b)	Cum	26.00	20.00	520.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	20.00	720.00
2	Cement concrete1::4:8 with graded metal of 40 mm size.	717(b)	Cum	1486.00	2.00	2972.00

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
3	Supplying and fixing steel reinforcement bars (tested) R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire)					
	(b) Cold worked steel high strength bars confirming to grade Fe 415 of I.S.1786	1304(b)	Kg	41.00	10.00	410.00
	(a) MS steel bars confirming to grade -I of I.S.432 (Pt-I)	1304(a)	Kg	40.00	30.00	1200.00
	(c) Labour only for binding cold worked steel high strength bars conforming to grade Fe 415 of IS 1786 steel reinforcement bars (tested) for R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire). The rate quoted against this shall deemed to be inclusive of cost against all activities required including transportation of material from (SAIL, TISCO, IISCO, RINL, JINDAL Steel or rerollers approved by main producers) stockyard.	1305(a)	kg	3.30	90.00	297.00
4	P/P in position M-20 RCC excluding cost of reinforcement but including ,formwork vibration, finishing, curing etc. complete with graded metal of max.size 20 mm.	1601(b)	Cum	4253.00	2.00	8506.00
5	15mm thick cement plaster on brick work in CM 1:6	1105 c	Sqm	64.00	20	1280.00
6	Water Proofing cement paint snowcem or Durocem (Two coats)	1733	Sqm	40.00	20	800.00
7	Priming coat with ready mixed paint brushing Zinc chrome, priming on new steel /galvanised iron surface l/c preparing the surface.	1803	Sqm	19.00	30	570.00
8	Painting two or more coats (excluding priming coat) on new surfaces with with enamel paint (IS:2933-1975) to give an even shade.	1808	Sqm	27.00	30	810.00
9	Filling foundation with moorum & moorum with boulder including watering and ramming etc.	703	Cum	95.00	0	0.00
10	Labour only for Filling foundation and around masonry works with material obtained from spoils including watering and ramming.	709(a)	Cum	43.00	36	1548.00
11	Providing,fabricating and fixing in position compound gate made of mild steel hollow square rectangular sections outer frame and inner sections made up with 2 mm and 1.5mm thick MS sheet respectively as per specifications and approved drawings inclusive of cost of all materials, fabrication charges, cutting, welding, riveting, transportation up to site, fixing in position by grouting of hold fast to the RCC column, and applying suitable steel primer etc.complete as per direction of Engineer-in-charge. (i) Pair of gate of 2x2.5x2.4 Mtr.size (ii) 1 No.wicket gate of 1x1.25x2.4m size. (Abovesaid sizes are standard sizes but likely to change during execution.) (Base Rate Rs.80/- per Kg.)	NUSR	Kg	80.00	700	56000.00
	Total Amount					446450.00

BOQ CUM PRICE SCHEDULE

Name of Project

:400kV Substation at Kirnapur

Name of Work

:Construction of Area Fencing

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil/c 50 m lead and 1.5 m lift	401(b)	Cum	26.00	5.00	130.00
2	Excavation in hard moorum i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	0.00	0.00
3	Cement concrete 1:4:8 with 40 mm metal	717 (b)	Cum	1486.00	1.00	1486.00
4	Supplying and fixing steel reinforcement bars (tested) R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire)					
	(a) MS steel bars confirming to Grade I of IS: 432 (Part-I)	1304(a)	Kg.	40.00	15.00	600.00
	(b) Cold worked steel high strength bars confirming to grade Fe 415 of I.S.1786	1304(b)	Kg.	41.00	5.00	205.00
	(c) Labour only for binding cold worked steel high strength bars conforming to grade Fe 415 of IS 1786 steel reinforcement bars (tested) for R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire). The rate quoted against this shall deemed to be inclusive of cost against all activities required including transportation of material from (SAIL, TISCO, IISCO, RINL, JINDAL Steel or rerollers approved by main producers) stockyard.	1305(a)	kg	3.30	45.00	148.50
5	P/P in position M-20 RCC excluding cost of reinforcement , but including formwork vibration, finishing, curing etc. complete with graded metal of max.size.					
	(b) 20 mm	1601(b)	Cum	4253.00	1.00	4253.00
6	15mm thick cement plaster on brick work in CM 1:6	1105(c)	Sqm	64.00	10.00	640.00
7	Providing, fabricating and fixing in position M.S. grill for window opening (or any other similar opening) or worksof similar nature of any pattern, anydesign (straight or curved) fitted andfixed in position, including all weldingrivetting etc.to floors, walls, coloums,etc., and repairing the same to the original condition in CM 1:3 complete					
	(c) M.S.grills consisting of square or hexagobal MS bars or sheets	1320(c)	Kg	55.00	200.00	11000.00
8	Water proofing cement paint Snowcem or Durocem.(Two coats)	1733	Sqm	40.00	10.00	400.00
9	Painting two or more coats	1803+1808	Sqm	46.00	15.00	690.00
10	Labour only for filling foundation and arround masonry works with material obtained from spoils including watering and ramming.	709(a)	Cum	43.00	3.00	129.00
11	Providing & Fixing precast RCC post M-20 strength of section 100mmx100mm casted with 4 Nos.6 mm dia MS bars and stirrups placed 300 mm C/c , 1.85 M long placed at 2 M C/c , corner and every tenth post to be strainer post and struttred with struts (struts , strainer post & main post all of same size) , excavation of pit in all type of strata and pit size 30cmx30cmx60 Cm and grouting the posts in Cement Concrete 1:3:6 laid in the pit , providing & fixing 6 horizontal rows and 2 diagonals of barbed wire (9.38 Kg per Metre) to concrete posts and tied up suitably with GI wire & staple pins of 6 mm dia MS Bars embedded in posts , complete as per approved drawing & direction of Engineer in charge including cost of all material , labour , T&P, transportation etc. complete .					
	(Base rate Rs. 325/ per Rmt.)	NCSR	Rmt.	325.00	50.00	16250.00
	Total Amount					35931.50

BOQ CUM PRICE SCHEDULE

Name of Project

:400kV Substation at Kirnapur

Name of Work

:Construction of Road inside the Yard

Sl.No.	Description of Item	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil i/c 50 m lead and 1.5 m lift with dressing.	401(b)	Cum	26.00	1450	37700.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	0.00	0.00
3	Excavation in DR i/c 50 m lead and 1.5 m lift with dressing.	403	Cum	71.00	0.00	0.00
4	Supply, stacking, spreading and packing of 80 mm oversize metal black trap / basalt or granite free from dust and foreign materials i/c all leads and lifts of material, labour charges, T&P, transportation from approved quarry to S/S site, stacking, boxing, handling, all taxes, royalty charges etc. complete as per specification & instruction of Engineer-in-charge.					
	(Base rate Rs. 800/- per cum.)	NUSR	Cum	800.00	1450	1160000.00
5	Supply and stacking of 40 mm metal black trap / basalt or granite free from dust and foreign materials i/c all leads and lifts of materials, labour charges, transportation from approved quarry to S/S site, stacking, handling, all taxes, royalty charges etc. as per specification & instruction of Engineer-in-charge.					
	(Base rate Rs. 900/- per cum.)	NUSR	Cum	900.00	360	324000.00
6	Supply and spreading of hard moorum in EHV Substation yard or road works, including stacking, boxing all lead and lifts, labour, T&P,Taxes,Royalty etc. complete as per specifications and direction of Engineer-in-Charge					
	(Base rate Rs. 350/- per cum.)	NUSR	Cum	350.00	700	245000.00
7	Same as above but including compaction as per direction of Engineer-in-charge..					
	(Base rate Rs. 375/- per cum.)	NUSR	Cum	375.00	160	60000.00
8	Consolidation of oversize metal by SRR / DRR including spreading moorum and lead of water up to 100 mt.					
	(I) including hire and running expenses of roller.	2003(b)(i)	Cum	98.00	1450	142100.00
9	80 mm thick W.B.M. coat in wet season by SRR / DRR i/c spreading of metal and moorum watering, korbandi (40 mm metal)					
	(i). including hire and running expenses of roller.	2008(a)	Cum	167.00	360	60120.00
	Total Amount					2028920.00

ANNEXURE-VI

BOQ CUM PRICE SCHEDULE

Name of Project

:400kV Substation at Kirnapur

Name of Work

:Construction of Culverts inside the Yard

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil i/c 50 m lead and 1.5 m lift with dressing.	401 (b)	Cum	26.00	100	2600.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	0	0.00
3	Excavation in DR i/c 50 m lead and 1.5 m lift with dressing.	403	Cum	71.00	0	0.00
4	PCC 1:4:8 with graded metal of 40mm size	717(b)	Cum	1486.00	10	14860.00
5	Cement concrete1:2:4 with graded metal of 20 mm size.	715 (c)	Cum	2299.00	6	13794.00
6	Uncoursed and random rubble masonry in plinth and foundation in cement mortar 1:6.	812 (e)-827	Cum	1681.00	50	84050.00
7	Filling foundation and arround masonry works with moorum & moorum with boulder including watering and ramming.	703	Cum	95.00	0	0.00
8	Labour only for filling foundation and arround masonry works with material obtained from spoils including watering and ramming.	709(a)	Cum	43.00	60	2580.00
9	Pointing on stone work in CM 1:4					
	(a) Flush pointing.	1126 (a)	Sqm	52.00	60	3120.00
	NUSR Items					
1	Providing and laying in position NP 3 hume pipe of required diameter including filling 450 mm thick moorum bed well compacted above the pipes, jointing the pipe with complete fixtures if required & placing in position including all charges for labour transportation ,loading, unloading and taxes etc. complete as per direction of Engineer-in-charge.					
	Pipe Diameter 300mm (Base Rate Rs.1700/- per Metre)	NUSR	RM	1700.00	0	0.00
	Pipe Diameter 600mm (Base Rate Rs.2125/- per Metre)	NUSR	RM	2125.00	30	63750.00
	Pipe Diameter 1000mm (Base Rate Rs.4375/- per Metre)	NUSR	RM	4375.00	15	65625.00
	Total Amount					250379.00

BOQ CUM PRICE SCHEDULE

Name of Project

:400kV Substation at Kirnapur

Name of Work

:Construction of Boundary wall

Sl.No.	PARTICULARS	USR item No.	Unit	USR unit rate effective from 2009	Quantity	Total Amt as per USR (Rs).
1	Excavation in hard soil i/c 50 m lead and 1.5 m lift with dressing.	401(b)	Cum	26.00	0.00	0.00
2	Excavation in hard moorum & moorum with boulder i/c 50 m lead and 1.5 m lift with dressing.	402	Cum	36.00	0.00	0.00
3	Cement concrete 1:4:8 with graded metal of 40 mm size.	717(b)	Cum	1486.00	0.00	0.00
4	Supplying and fixing steel reinforcement bars (tested) FOR R.C.C. including cleaning, straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming I.S.280-1978 (i/c cost of binding wire)					0.00
	(b) Cold worked steel high strength bars confirming to grade Fe 415 of I.S.1786	1304(b)	Kg	41.00	0.00	0.00
	(a) MS steel bars confirming to grade -I of I.S.432 (Pt-I)	1304(a)	Kg	40.00	0.00	0.00
	(c) Labour only for binding cold worked steel high strength bars conforming to grade Fe 415 of IS 1786 steel reinforcement bars (tested) for R.C.C. including cleaning straightening, cutting, bending, all handling, placing in position and binding with 0.9 mm annealed binding wire confirming to I.S.280-1978 (i/c cost of binding wire). The rate quoted against this shall deemed to be inclusive of cost against all activities required including transportation of material from (SAIL, TISCO, IISCO, RINL, JINDAL Steel or rollers approved by main producers) stockyard.	1305(a)	kg	3.30	0.00	0.00
4	Providing and Placing in position M-20 R.C.C. excluding cost of reinforcement but including , form work , vibration, finishing, curing etc. complete with graded metal of max.size 20 mm.	1601(b)	Cum	4253.00	50.00	212650.00
6	Labour only for Filling foundation and around masonry works with material obtained from spoils i/c watering and ramming, labour only.	709(a)	Cum	43.00	0.00	0.00
7	Steel work in single section i/c forging, hoisting, fixing in position etc complete					
	(b) In angles, channels, flats and tees.	1301(b)	Kg	42.00	3000.00	126000.00
8	Water Proofing cement paint snowcem or Durocem (Two coats)	1733	Sqm	40.00	0.00	0.00
9	Priming coat with ready mixed paint brushing Zinc chrome, priming on new steel /galvanised iron surface i/c preparing the surface.	1803	Sqm	19.00	0.00	0.00
10	Painting two or more coats (excluding priming coat) on new surfaces with enamel paint (IS:2933-1975) to give an even shade.	1808		27.00	0.00	0.00
11	P&L in position cement concrete with graded metal of max. 20 mm for coping complete (a) 1:2:4 concrete	2455(a)	Cum	4136.00	0.00	0.00
12	Second class T.M. open bhatta or pajwa burnt brick masonry in C.M. 1:6 in plinrh foundation for one or half brick wall .	901e-906+909	Cum	1677.00	0.00	0.00
13	Second class T.M. open bhatta or pajwa burnt brick masonry in C.M. 1:6 in super structure for one or half brick wall .	901e+909	Cum	1737.00	70.00	121590.00
14	15mm thick cement plaster on brick work in CM 1:6	1105 (c)	Sqm	64.00	0.00	0.00
15	20mm thick cement plaster on brick work in CM 1:6	1106 (c)	Sqm	88.00	0.00	0.00
16	P&F barbed wire (9.88 Kg per 100 m) to M.S.angle iron post i/c screwing with G.I.tying wire, GI Staples, or steel pins i/c cost of wire, staples, pins, etc. complete at above 2.5 m height as per direction of Engineer-in-charge.					
	(Base rate Rs. 9/- per m).	NUSR	RM.	9.00	3000.00	27000.00
	Total Amount					487240.00