



भारत हेवी इलेक्ट्रिकल्स लिमिटेड

(भारत सरकार का उपक्रम)

BHARAT HEAVY ELECTRICALS LIMITED

(A Govt. of India Undertaking)

TCN - 01

Ref: PSER:SCT:FKK-C 727:TCN-01

Date: 31-01-2007

Sub	Tender change notice (TCN) 01.	
Job	Civil enabling work- Renovation and upgradation of the existing office, covered storage sheds, semicovered sheds for 1 x 500 MW Unit – 6 at Farakka (Stage – III).	
Ref	1.0	Tender no PSER:SCT:FKK-C727:07.
	2.0	BHEL's NIT vide reference no PSER:SCT:FKK-C727, dated 24-01-2007

With reference to above, following points, relevant to tender, may please be noted and complied with while submitting offer.

- 1.0 Volume-III (Rev 00), Price Schedule has been revised. The revised Price schedule Volume-III (Rev 01) is enclosed.
- 2.0 All other terms & conditions shall remain unchanged.

Based on above, you are requested to submit your offer by due date.

Thanking you,

Yours faithfully,
for BHARAT HYEAVY ELECTRICALS LTD

DGM (SCT)

Encl: As above.

पावर सेक्टर पूर्वी क्षेत्र (मुख्यालय)

POWER SECTOR EASTERN REGION, DJ-9/1, SALT LAKE CITY, KOLKATA - 700 091

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VOLUME – III (Rev 01)

TENDER DOCUMENT NO: PSER:SCT:FKK-C727:07

PREAMBLE

01. This preamble forms part of tender document (vol-III) and BOQ/ schedule of items. The tenderer should read this preamble carefully before filling in rates for various items in BOQ cum rate/price schedule. Clauses under this preamble shall be read in conjunction with Volume-IB and Volume – II as applicable and shall have precedence over any contrary statement mentioned any where in this document.

02. The work shall be carried out as per specifications, description of the items in this schedule and / or engineer's instructions. Drawings enclosed with this document are only preliminary for giving some idea of the work involved.

03. Items of work provided in this schedule but not covered in this specification shall be executed strictly as per instruction of the engineer.

04. Unless specifically mentioned otherwise in the tender document, the tenderer shall quote for the finished items and shall provide for the complete cost towards power, fuel, tools, tackles, equipment, constructional plants, temporary works labour, dismantling of all temporary piping, structures, valves, pumps, tanks & other misc. equipment etc required for carrying out different activities & tests, material, levies, taxes (except service tax) , transport, layout, repairs, rectification, maintenance till handing over, supervisions, colonies, shops, establishments, overheads, profits and all incidental items not specifically mentioned but reasonably implied and necessary to complete the work according to the tender document and this schedule.

Service tax (as applicable) shall be reimbursed extra against submission of documentary evidence to the satisfaction of BHEL. . As such , the bidder's quoted rate shall not be inclusive of the service tax.

05. The quantities of the various items mentioned in this schedule of items are approximate, based on very preliminary information and may vary to any extent or be deleted altogether. The quoted rate for each item shall remain firm and valid as long as variation in total value of work executed under this contract including extra items, if any, but excluding any price escalation, remains within +/- 30% (thirty percent) of the total awarded price.

06. The rates quoted shall be inclusive of cleaning the site of any vegetation, dressing and leveling, if any, etc., required for commencement of site activities. No separate payment will be made towards the same.

07. The rate shall also be inclusive of carrying out topography survey of site to establish levels and coordinates at suitable intervals, from existing grid levels and coordinates furnished by the owner, establish bench marks, setting out the locations and levels of the proposed structures, constructions and making references, pillars and other identification marks etc. No separate payment will be made towards the same.

08. Rates shall be quoted both in figures and in words in clear legible writing. No overwriting is allowed. All scoring and cancellations should be countersigned and in case of illegibility the interpretation of engineer shall be final. All entries shall be in English language. The rates quoted are inclusive of all taxes(except service tax) and duties viz Sales Tax, excise, octroi etc.
09. All works item wise shall be measured upon completion and paid for at the rates quoted and accepted.
10. The tenderer shall be deemed to have studied the drawings, specifications and details of work to be done within the time schedule attached and to have acquainted himself of the conditions prevailing at site.
11. BHEL does not contemplate to split up the job and award the job to different bidders.
12. Engineer's decision shall be final and binding on the contractor regarding clarification of items in the schedule with respect to the other sections / volumes of the contract.
13. For evaluation purpose (deciding L1), total price quoted by bidders in enclosed BOQ cum rate schedule shall only be considered.

CIVIL ENABLING WORKS – RENOVATION & UPGRADATION OF OF OLD STORES,OFFICE,ROADS & DRAINS,MASONRY
WORK,SANITARY,DRINKING WATER ETC. & OTHER MISCELLANEOUS CIVIL WORKS
FOR 1x500 MW UNIT-6,FARAKKA STG-III PROJECT.

RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER;SCT:FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
1	Earth work in excavation in foundation trenches, drains, septic tanks etc including dressing of sides and ramming of bottoms, in all types of soil, including removing, spreading or stacking the spoil within a lead of 1 Km as directed and including trimming the side of trenches, levelling, dressing and ramming the bottom , bailing or pumping out water etc. as required complete.				
(a)	Upto 1.5 Mtr below GL.	Cum	600.00		
2	Earth work in filing in foundation trenches and plinth with good earth in layers not exceeding 15 cm. including watering, ramming etc. layer by layer complete.				
(a)	With Earth obtained from excavation	CUM	300.00		
3	Providing and laying in position cement concrete 1 : 3 : 6, with graded trap stone ballast 20 mm down excluding the cost of shuttering- but including all materials, labours, curing etc. complete at all levels :	CUM	40.00		
4	Providing and laying in position specified grade of reinforced cement concrete in floors,beams, columns, lintels,etc. excluding the cost of centring , shuttering, finishing and reinforcement at any level 1:2:4(1cement : 2 coarse sand :4 graded stone aggregate 20mm nominal size)	CUM	60.00		
5	Dismantling of existing Plain Cement concrete and existing installatation etc. at any level and removal of debris upto a lead of 1 Km including transportation, loading, unloading etc. all complete as directed by BHEL.	CUM	20.00		
6a	Dismantling of existing Reinforced Cement concrete,GI pipes , cutting of reinforcements etc, at any level including removal of debris upto a lead of 1 Km including transportation, loading, unloading etc. all complete as directed by BHEL.	CUM	30.00		
6b	Dismantling of existing damaged masonry wall or structure,underground floors with pipes etc.,removal of the same,waste debris upto a lead of 0.5 Km including all labour, transportation, loading, unloading etc. all complete as directed by BHEL.	CUM	25.00		
7	Hire and labour charges for shuttering for bldngs. works for concrete in foundations, floors, roofs slabs, beams, lintels, columns, chajja, fins etc. including fitting, fixing and striking out carefully after completion of work, with or without props, all complete.	SQM	200.00		
8	Providing,Reinforcement for R.C.C. work including straightning, cutting , bending, placing in position and binding all complete.	MT	15.00		
9	Dismantling all type of masonry and stacking serviceable materials at site and removing rubbish within 1 km lead as directed	CUM	10.00		
10	Brick work in cement mortar (1:6) at all levels in at all levels in foundation or superstructures including all materials, labours, scaffoldings and other incidentals etc. complete with 75 class designation bricks.	CUM	40.00		
11	Single brick flat soling bricks class designation-75 including rammin, and dressing bed to the propoer leveland filling the joints with powder earth or local sand including all materials, labour etc.	SQM	200.00		
12	Single brick on edge soling bricks calss designation-75 including rammin and dressing bed to the propoer leveland filling the joints with powder earth or local sand including all materials, labour etc.	SQM	100.00		
13	Supplying and providing single line brick on edge with jhama bricks for protection along edges of road, lawn etc.	Rmt	200.00		

CIVIL ENABLING WORKS – RENOVATION & UPGRADATION OF OF OLD STORES, OFFICE, ROADS & DRAINS, MASONRY WORK, SANITARY, DRINKING WATER ETC. & OTHER MISCELLANEOUS CIVIL WORKS
FOR 1x500 MW UNIT-6, FARAKKA STG-III PROJECT.

RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER; SCT: FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
14a	125 mm thick Brick work in superstructure in cement mortar 1:6(1 cement: 6 coarse sand) including all materials, labours, scaffoldings and other incidentals etc. complete.	SQM	120.00		
14b	125/127mm thick brick work with bricks class designation-75 of drains, below ground work	SQM	1500.00		
15	Repairs to plaster with mortar(1:6) of thickness 12 mm in patches or new area and under including cutting the patch in proper shape and preparing and plastering the surface of the walls complete above ground at any elevation :	SQM	250.00		
16	Plastering to floor, slab soffits, fins, sills , drains, septic tanks etc. at all levels with cement sand mortar complete rounding off or chamfering corners as directed and racking out joints or roughening of concrete surface including chipping & application of cement slurry wherever necessary etc. below ground level 12mm thick average thickness with cement mortar, disposal of the debris to designated places, all complete as per direction of engineer in charge.	SQM	260.00		
17	1.5 mm Neat cement punning in wall, dado, skirting, window sills, floor, drain etc. including all materials, labours etc. complete.	SQM	125.00		
18	Removing loose scales, blisters, moss, etc from old painted surfaces of masonry , concrete surfaces, steel windows, doors etc. with scraper, wire brushes, sand paper etc. and thoroughly smoothening the surface to make the same suitable for receiving fresh coat of paint.	SQM	6400.00		
19	Providing two coats of white washing with lime, including cleaning, labour, materials, scaffolding, incidental etc. complete as per specification and direction.	SQM	2300.00		
20	One coat cement primer of approved brand and shade over old plaster or concrete surface applying decorative finish including scraping, washing surface etc. as necessary and all incidental charges in this connection with all labours, materials etc. complete.	SQM	3100.00		
21	Providing Two coats of water proofing cement based paint of seacem or equivalent and approved shade on wall as per manufacturer's specification, at all levels including all materials , labours, labours, scaffoldings etc. complete as per direction of engineer in charge.	SQM	3100.00		
22	Priming one coat to timber or steel with ready mixed primer of approved quality including smoothening surface by sand papering etc. complete with all material, labour, incidental etc. complete as per specification as direction of engineer-in-charge. Paint to be applied on steel windows/ doors/ wooden shutters/rolling shutters/ventilators/ false ceiling boards etc	SQM	930.00		
23	Providing and applying the surface of walls etc. with minimum 2 mm thick Lime Punning with shell lime and stone lime (2:1) over old surfaces / repaired surfaces etc with labourer materials etc all complete as per direction of engineer in charge.	SQM	200.00		
24	Distempering with two or more coats of colour distemper of approved brand and manufacture to give an even shade on walls and ceiling including sand papering, putty, as per specification and direction of engineer in charge.	SQM	950.00		
25	Applying two coats of plastic emulsion paint of ICI brand or equivalent, approved paint on walls and ceiling including sand papering in intermediate coats using putty, as per direction of engineer in charge.	SQM	200.00		

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FOR 1x500 MW UNIT-6, FARAKKA STG-III PROJECT.

RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER; SCT: FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
26	Painting two coats with synthetic enamel paint ready mixed Berger or equivalent on any surface including smoothening surface by sand papering etc. including using of approved putty etc. on the surface if necessary complete with all material, labour, incidental etc. complete as per specification as direction of engineer-in-charge.				
(a)	Wooden Surface, False ceiling boards etc.	SQM	800.00		
(b)	Steel Surface, Rolling shutters, windows etc.	SQM	450.00		
27a	Removal and stacking of existing electrical fixtures like lighting fixtures, fans, switch boards, etc. from surface of walls, ceiling etc. and keeping it in a safe place for use at a later date, as directed by BHEL.	Each	200		
27b	Refixing of available electrical fixtures like lighting fixtures, fans, switch boards etc. to walls, false ceiling etc. including making good the surfaces, as per direction of BHEL.	Each	200		
28a	Removal of existing electrical wiring including conduits/wiring battens, clamps etc. from surface of walls, ceiling etc. and stacking in a safe place for use at a later date after removal of damaged wires if any. as directed by BHEL.	RM	800		
28b	Refixing of existing electrical distribution wiring including conduits/wiring battens, clamps, cleats, etc. from surface of walls, ceiling etc. after removal of damaged wires, if any, as directed by BHEL.	Point	250		
29	Supplying and fixing composite flush type 250 V, 3 Pin, 15 amps plug socket with piano key type (Anchor) switch on double hard wood board including S & F double hard wood board.	No.	50		
30	Providing and laying of distribution wiring in multistrand 1.5 sq mm Al conductor flat twin PVC insulated and sheathed wire on HW Batten with earthing attachment in 1 x No 16 SWG GI Wire to 5 pin, 5 amps plug point on existing switch boards on walls or ceiling and painting as per direction of BHEL.	Point	280		
31	Providing and laying of distribution wiring in multistrand 1.5 sq mm Al conductor flat twin PVC insulated and sheathed wire on HW Batten to fan or light points on existing switch boards & painting as per direction of BHEL.	Point	280		
32	Providing and laying of distribution wiring in multistrand 1.5 sq mm Al conductor flat twin PVC insulated and sheathed wire on HW Batten to call bell points and painting as per direction of BHEL.	Point	25		
33	Providing and laying of distribution wiring in multistrand 2.5 sq mm Al conductor flat twin PVC insulated and sheathed on HW Batten wire with earthing attachment in 1 x No 14 SWG GI Wire to composite flush type 3 pin, 15 amps plug points and painting as per direction of BHEL.	Point	50		
34	Removing and replacing following electrical power distribution accessories (including S&F all materials required to complete the job):				
a	250 V, 32 amps, DP iron frame Main Switch with fuse	No.	30		
b	250 V, 15amps, per way iron clad bus distribution board (B.D.B) with fuses on L.S & N.L. on flat iron / angle iron frame on wall	No.	10		
c	Composite flush type 250 V, 5 Pin 15 amps plug socket with piano key type (Anchor make or equivalent) switch on hard wood board including S & F double teak board.	No.	35		

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FOR 1x500 MW UNIT-6, FARAKKA STG-III PROJECT.

RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER; SCT: FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
d	Existing bulkhead light fitting or superior quality (Al Body) on wall / ceiling suitable 100 watts all complete with glass wire guard and holder.	No.	50		
e	Single single fluorescent light (4 ft) fitting complete with tube, clamp directly on wall / ceiling with ceiling plates, brackets etc. as required.	No.	80		
f	Wall mounted waterproof outdoor type 200Watts lamp shed as per direction of BHEL	No.	120		
g	5 pin 5 amps plug point with piano key switch (Anchor or equivalent make) to existing switch boards in place of damaged items as per direction of BHEL.	No.	120		
h	Composite flush type 3 pin 15 amps plug socket in place of damaged ones as per direction of BHEL.	No.	40		
i	5 amp piano key type (Anchor make or equivalent) switches in place of damaged items as per direction of BHEL.	No.	80		
j	250 V AC Call bell / Buzzer , as per approved make, in place of damaged items as per direction of BHEL.	No.	25		
k	250 V AC Call bell push switches, (Anchor or equivalent) in place of damaged items as per direction of BHEL.	No.	25		
l	Ceiling Rose	No.	100		
m	CEILING FANS 1400dia. locally best quality	No.	35		
35	Removing existing damaged false ceiling panels and providing (Plain Asbestos 1200MMX1200MMX5mm thick average), 15mmx10mm but excluding the wooden supporting framework), stacking of the false ceiling panels, wooden pieces according to their sizes at a place as identified by BHEL and disposal of the debris within a lead of 1 km etc including all materials, labour etc all complete.	SQM	500.00		
36	Repair of damaged or worn out portion of the wood frame work in roof truss or false ceiling sdoor frame supporting framework and others , including replacement of wooden members if any, with karpur or sal or equivalent wood of existing sections and sizes, all complete including cost of black bituminous one coat paint, alignment of the framework so as to receive the ceiling boards, drilling holes, labour materials etc as per direction of engineer in charge. Size of wooden battens shall be 60x25mm/50x25mm/40x25mm etc.	Cum	1.20		
37	Providing and fixing 3 or 4 mm thk GI wire as hanger & supporting wooden framework from steel truss with screens etc. complete supports	Kg	400.00		
38	Providing and fixing teak timber battens of existing size and shape (approx 20 mm wide x 10 mm thick) to the underneath of the false ceiling panels to form a grid pattern with necessary screws etc. as per direction of engineer in charge.	RM	824.00		
39a	Replacment of damaged rolling shutters after removal of the damaged items, supply and fixing of new shutters with fixtures complete with associated civil paching works (new laths/bottom plates etc)	SQM	32.00		
39b	Repair of existing rolling shutters with new spring and oiling etc. to make the same operational complete	NO.	24.00		

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RATE SCHEDULE - VOLUME- III (Rev 01)

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ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
40a	Providing and fixing in position rolling shutter of MS steel lath section of 18 SWG tested mild steel strips at 75mm rolling centres interlocked together through their entire length and jointed together at the end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation including wire springs, top cover, primer & two coats of synthetic enamel paint etc, all complete as per specification and of locally best quality - Mechanically operated . The bottom lath shall be coupled to a lock plate fabricated from 3mm thick MS steel plate and securely rivetted with stiffening angles.	SQM	28.00		
40b	Servicing, oiling and painting of old & existing rolling shutters after necessary cleaning, lubricating & surface preparation etc. to make the same operational complete	NO.	16.00		
40c	Servicing, oiling and painting of the collapsible gate after necessary cleaning & surface preparation etc. including replacement of damaged channels with new channels welding etc. including two coats of black bituminous paints to make the same operational complete	NO.	1.00		
41	Providing and fixing anodised aluminium fitting (ISI Marked) for doors, windows etc. including all materials, labours etc complete for the following : sliding door bolts anodised (anodic coating not less than grade AC 10 as per IS : 1868) with nuts and screws etc. complete for 300 x 16 mm size.	Each			
42	Sliding door bolts 30 cm x 16 mm size	Each	15.00		
43	Tower bolts - 150 mm x 10 mm	Each	50.00		
44	Tower bolts - 100mm x 8 mm	Each	40.00		
45	Hanging floor door stopper - Single rubber stopper	Each	30.00		
46	Providing and fixing approved 300 mm long x 16 mm dia oxidised MS Hasp bolt as per direction of BHEL.	Each	20.00		
47	Replacing old worn out oxidised M. S. pressed heavy butt hinges of existing sizes with necessary screws etc. complete for wooden doors of all types and size as per direction of BHEL.	Each	70.00		
48	Removal broken / damaged glass panes, putty, nails etc as required and replacement with new glass panes, putty, nails, glazing clips etc. In steel or wooden windows, all complete.				
	a) 4 mm thick clear glass panes,	SqMtr	20.00		
	b) 3 mm thick frosted glass panes.	SqMtr	20.00		

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RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER; SCT: FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
	c) 5mm thick clear glass shut	SQM	10.00		
49	Removal of old putty in existing glass panes, and replacement with new putty, nails, glazing clips etc all complete.	RM	200.00		
50	Providing and fixing oxidised M.S casement stays(straight peg type) with necessary screws etc complete. A) 300mm weighing not less than 200gms.	Each	40.00		
51	Providing and fixing oxidised M.S handles conforming to IS : 4992 with necessary screws etc. complete. A) 125mm	Each	60.00		
52	Supplying, fitting and fixing approved brand hydraulic door closer of Godrej or equivalent make conforming to IS specification with necessary screws and other fittings.	Each	10.00		
53	Supplying, fitting and fixing anodized Aluminium D type handle 100mm x 10mm with plate & hexagonal or round rod complete with new screws.	Each	40.00		
54	Providing and fixing Polyvinyl chloride sheet in flooring and skirting in approved pattern on a smooth and damp proof base using rubber based adhesives of locally best quality, Fevicol SR 998 or equivalent including application of putty to make the floor smooth to receive the PVC sheet, rolling with light wooden roller weighing about 5 kg . all complete as per manufacturer's specification as directed by Engineer in charge in approved colour and shed. a) 2.0 mm thick. for office	SQM	450.00		
55	Repairing of existing Grey artificial stone floor in floor dado etc, with cement concrete 4:2:1 with 3.25 mm neat cement finishing at top and including rounding of corners and preparation of beds by chipping the surface etc with graded stone chips as per direction of BHEL.	SQM	100.00		
56	Replacing existing damaged asbestos corrugated sheet work in roof or providing asbestos corrugated sheet roofing or wall with approved quality asbestos sheet fitted and fixed with 16 mm dia "J" or "L" hook bolts and nuts, sheet bolts, limpet and bitumen washers and putty complete including the cost of AC sheet, carriage, taxes, removal of adjacent Sheets / ridges , if required , etc as per direction of BHEL Engineer	SQM	70.00		
57	Replacing of existing damaged adjustable type asbestos sheet ridding with 230mm lap on both direction fitted and fixed with necessary hook bolts, nuts, limpet, bitumen washer etc. complete with all materials, labour etc. as per specification	RM	70.00		
58	Supplying and laying self adhesive torrfelt over one coat of bitumen primer roof treatment to corrugated AC Sheet Roofing, to be finished with sand including necessary preparatory works such as shaping the mouth of outlets, cutting as and where necessary including the cost of all labour .Measurement to be taken with joint inspection & work to be carried out as per BHEL's instruction & repair portion to be measured.	SQM	1250.00		
59	Repair of damaged or worn out portion of MS wind ties by gas cutting and removal and replacing the same with new MS wind tie made of MS Flats (20 mm x 10 mm), fitted, fixed and welded to existing wind ties, complete including cost of drilling holes, necessary fittings, consummables, materials labour all complete. (Measurement shall be made for the portion of wind tie replaced)	RM	20.00		
60	Replacing existing damaged or worn out, " J " hook or " L " hook bolts (of max dia 12 mm) , nuts, sheet bolts, limpets and bitumen washers , including cost of all materials, labour etc all complete. (All J / L hooks replaced to be returned to BHEL)	Each	50.00		

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RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER; SCT: FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
61	Replacing existing with new vitreous china pedestal type water closet (European type W.C. pan) along with 10Liters capacity PVC white colour lowdown cistern etc. with all fittings and fixtures, beats, etc. complete including cutting and making good the walls and floors wherever required (EWC of HINDUSTAN make or Eqv.)	Each	8.00		
62	Providing and fixing of white vitreous flat back urinal with 5Liter capacity high level CI cistern with PVC flash pipe with all fitting fixing, labour, materials etc. complete	Each	9.00		
63	Replacing existing PVC Low down Cistern with 10 litres PVC Low Down cistern conforming to IS Specification of approved make with all fittings , fixtures , connecting pipe to WC , etc all complete.	Each	5.00		
64	Replacing and fixing wash basin HINDUSTAN or equivalent with C.I./M.S. brackets, 32 mm C.P. brass waste union of standard pattern, PVC waste pipe etc. including 2 coats of painting of fittings and brackets with all fittings and fixtures all complete including cutting and making good the walls and floors wherever required:				
(A)	White Vitreous Wash basin 450mmx300mm	EACH	6.00		
65	Replacing existing kitchen sinks with white vitreous china sinks with CI Brackets, CP Brass waste and 40 mm CP brass nut with necessary CP Brass unions, PVC waste pipe complete including 2 coat of painting of fittings and brackets, with all fittings and fixtures all complete including cutting and making good the walls and floors wherever required:				
a)	Size 600 X 450 X 200 mm	Each	1.00		
66	Providing and fixing 100 mm cast Iron grating for gully, floor or Nahani trap etc.	Each	12.00		
67	Providing and fixing soil, waste and vent pipes, PVC, Oriplast or equivalent:				
a)	100 mm dia cast iron pipes	RM	40.00		
b)	75mm dia cast iron pipes	RM	40.00		
c)	Supplying, fitting and fixing 15 mm dia CP brass bibcock/stop cock /pillar cocks of approved make (Essco Deluxe or equivalent)	RM	30.00		
68	Supplying, fitting and fixing approved brand CP towel rail 25 mm dia (600 mm long on 75 mm X 75 mm X 75 mm) complete in all respect as per direction of Engineer In-charge	No.	5.00		
69	Supplying, fitting and fixing best quality approved brand mirror silvered over glass 5.5 mm thk 600 mm x 450 mm size tilting type with cp brackets as per direction of engineer in charge	No.	4.00		
70	Supplying, fitting and fixing 61 cm X 12.5 cm best quality glass shelves with aluminium plate guard rail with bracket	No.	6.00		
71	Providing and fixing PVC Pipes complete with G.I. fittings , wherever required as per direction of Engineer In Charge (supreme or equivalent).				
A	Exposed on masonry / concrete wall and on laying, making good the surface so as to match the surface on which it is laid,				
i)	15 mm dia. Nominal bore	RM	70.00		
ii)	20 mm dia. Nominal bore	RM	40.00		
iii)	25 mm dia. Nominal bore	RM	40.00		
v)	40 mm dia. Nominal bore	RM	30.00		
B	Concealed in Masonry / Concrete walls including making grooves in walls wherever necessary, and on laying, making good the surface (PVC pipes of Supreme or equivalent) so as to match the surface on which it is laid,				
i)	15 mm dia. Nominal bore	RM	40.00		
ii)	20 mm dia. Nominal bore	RM	40.00		
iii)	25 mm dia. Nominal bore	RM	40.00		

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ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
72	Providing and fixing full way gun metal Peets Valve of approved standard pattern best Indian make with fitting as per direction of BHEL with all labour, materials etc complete.				
i)	15 mm dia. Nominal bore	EACH	30.00		
ii)	20 mm dia. Nominal bore	EACH	5.00		
iii)	40 mm dia. Nominal bore	EACH	5.00		
73	Replacing existing glazed stoneware pipes grade 'A' including jointing with stiff mixture of cement mortar in the proportion of 1:3 (1 cement : 3 fine sand) including testing of joints, excavation, backfilling etc. all complete as per direction of Engineer in Charge.				
a)	75 mm diameter	RM	50.00		
b)	100 mm diameter	RM	50.00		
c)	150mm diameter	RM	5.00		
74	Providing and fixing white glazed ceramic tiles locally best make in walls, in skirting, risers of steps and dados over 12 mm thick bed of Cement Mortar 1:3 (1 Cement : 3 Coarse sand) and jointing with white cement slurry including labour, materials etc complete as 1.5M height from G.L.	SQM	65.00		
75	Providing and laying locally best quality Ceramic glazed floor tiles of any size on 20 mm thick Cement Mortar 1:4 (1 Cement : 4 Coarse sand) including pointing the joints with white cement and matching pigment etc. complete	SQM	100.00		
76	Taking out steel windows, repairing and refixing the same including mending good damages and applying a protective coat of paint.	SqMtr	20.00		
77	Labour for taking out flushed wooden shutter of doors, repairing or replacing of damaged or worn out part of the exterior ply, reassembling and refitting and rehanging the same with old fittings but with new screws as necessary and as directed by Engineer in Charge withy all labour, materials etc.. (payment shall be made on the basis of the area of ply replaced)	Sqmt	10.00		
78a	Replacing existing doors with 35 mm thk. solid flush type doors of commercial quality as per ISI specification. The timber frame consisting of top and bottom rails and side styles shall be of well seasoned timber 6.5 cm wide each and entire frame filled with 3.8 cm wide battens to give the door the form of solid timber with internal lipping of gurjan or similar wood, veneered etc. including fitting the shutters in position with oxidised MS heavy hinges, all materials, labours etc complete.	SQM	40.00		
78b	Same as above but 25mm thick wooden shutter	SQM	20.00		

CIVIL ENABLING WORKS – RENOVATION & UPGRADATION OF OF OLD STORES, OFFICE, ROADS & DRAINS, MASONRY WORK, SANITARY, DRINKING WATER ETC. & OTHER MISCELLANEOUS CIVIL WORKS
FOR 1x500 MW UNIT-6, FARAKKA STG-III PROJECT.

RATE SCHEDULE - VOLUME- III (Rev 01)

TENDER SPEC. NO. PSER; SCT: FKK-C727:07

ITEM NO	DESCRIPTION OF ITEM	UNIT	Total Qty	RATE (RS)	Amount (RS)
79	Supplying and fixing 1.2 mtr high fencing with MS angle iron 50x50x6 mm posts placed every 2 m centre to centre, embedded in 1:2:4 cement concrete blocks of size 300mm x 300mm x 450 mm depth, placed in holes dug in ground and backfilling, compacting etc, every 5th post, last but one and the corner post, shall be strutted on both sides and end post on one side only and provided with 8 horizontal lines and two diagonals inter woven with horizontal wires of barbed wire 9.38 kg per 100 mtr (min) between the two posts and fixed with GI staples, turn buckles etc complete. Cost shall include all materials, consumables, structural steel, barbed wire, staples, turn buckles etc, labour etc. for office fencing only	RM	25.00		
80	Supplying, fabrication, erection / installing in position structural steel members like purlins, rafters etc including MS Gates for fencing, made out of angles, flats, plates, sheets, MS round etc. including stiffener, bracings, etc. all complete with Two coats of Primer and Two coats of Synthetic Enamel of approved make and shade as per drawings and specifications.	Kg	300.00		
81	Clearing herbs, shrubs, including uprooting of rank vegetation, grass, bush wood, saplings, and removal of rubbish anywhere upto a distance of 2 Km outside the periphery of the area cleared.	SQM	200.00		
82	Renovating lawns including weeding, cheeling the grass, forking the ground, top dressing with sludge or manure, mixing the same with forked soil, watering and maintaining the lawn for 30 days or more till the grass forms a thick lawn free from weeds and fit for mowing, and disposal of rubbish as directed, including supplying good earth if needed but excluding the cost of sludge or manure all complete as per direction of engineer in charge. (cost of good earth, sludge or manure shall be paid separately)	SqMtr.	100.00		
83	Providing, laying below ground level light duty non pressure NP3 class RCC pipes with collars jointed with stiff mixture of cement mortar 1:2 etc complete - 300mm dia as per direction of BHEL. (Payment for excavation and backfilling will be paid separately as per respective items).	RM	20.00		
84	Providing, laying below ground level light duty non pressure NP3 class RCC pipes with collars jointed with stiff mixture of cement mortar 1:2 etc complete - 450mm dia as per direction of BHEL. (Payment for excavation and backfilling will be paid separately as per respective items).	RM	30.00		
85	Providing & fixing P.V.C. water tank of 2000 litres capacity (Syntex or approved equivalent make) in position. The work to include making all necessary inlet & outlet pipes, fixture, ball cocks, valves etc all complete as per specification and at all heights and levels.	NO.	4.00		
86	Concrete of grade M-25 conforming to IS:456 with coarse sand and graded hard stone aggregate 20mm nominal size in precast works like trench covers, RCC sleepers etc including formwork/moulds for thicknesses varying from 50mm to 250mm etc. all complete excluding the cost of reinforcement as directed by BHEL.	CUM	200.00		
	TOTAL PRICE				
88	For items are to be executed which are not covered as per above BOQ items, quote above, below or at per on the PWD Schedule of rate (Presidency Circle) for 2002, Govt. W.B.				
i)	Rate for complete item	%			
ii)	Rate for supply of material	%			
iii)	Rate for supply of labour	%			