

NATIONAL GAMES SECRETARIAT
NAME OF WORK:- RENOVATION OF RAJA KESAVADAS SWIMMING POOL , ALAPPUZHA
PART A - CIVIL WORKS
TENDER SCHEDULE

SI.No	Description Of Items	Unit	Quantity	Rate in figures(Rs)	Rate in words	Amount(Rs)
SH :1 EARTHWORK						
1.01	Clearing grass and removal of the rubbish up to a distance of 50 m outside the periphery of the area cleared.	sqm	1784.00	4.43	Rupees Four and Paisa forty Three Only	7903
TOTAL OF SUB HEAD -1.0						7903
(SH: - 2.0 - CONCRETE WORK)						
2.01	Extra for providing and mixing water proofing liquid in cement concrete work, masonry work, plastering etc in the proportion recommended by the manufacturers including cost and conveyance of all materials, labour, curing, lead lift , etc. complete as directed by Engineer-in-Charge at all levels	ltr	75.00	75.50	Rupees Seventy Five and Paisa Fifty Only	5663
TOTAL OF SUB HEAD -2.0						5663
(SH: - 3.0 - FINISHING WORK)						
3.01	Providing 50mm thick ferrocement concrete lining in CM 1:2 (1 cement : 2 medium sand) over cement slurry @ 2kg per cm ² .The cement mortar shall be laid over one layer of 14 guage welded mesh and 29 guage chicken mesh.The rate shall include cost of all materials, labour etc complete as directed by Engineer - in- charge at all levels.Reinforcement steel if required shall be provided along with welded mesh and chicken mesh will be measured and paid separately.	sqm	1575.00	1045.35	Rupees One Thousand Forty Five and Paisa Thirty Five Only	1646426

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SI.No	Description Of Items	Unit	Quantity	Rate in figures(Rs)	Rate in words	Amount(Rs)
3.02	Providing and fixing glass mosaic tiles, Mosarc Custom blend-20x20mm as per design or equivalent, over the water-proofed concrete surface using required primer and grout of approved colour and mix, as per manufacturer's specification and as directed by the Engineer-in-charge	sqm	1620.00	1100.75	Rupees One Thousand One Hundred and Paisa Seventy Five Only	1783212
TOTAL OF SUB HEAD-9.0						3429638
(SH: - 4.0 - DISMANTLING WORKS)						
4.01	Demolishing R.C.C work, including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge	cum	5.00	1534.64	Rupees One Thousand Five Hundred Thirty Four and Paisa Sixty Four Only	7673
4.02	Demolishing brick work manually / by mechanical means including stacking of serviceable material and disposal of unserviceable material within 50 metres lead as per direction of Engineer-in-Charge.	cum	8.00	980.07	Rupees Nine Hundred Eighty and Paisa Seven Only	7841
4.03	Dismantling tile work in floors and roofs laid in cement mortar including stacking material within 50 metre lead. For thickness of tiles above 10mm and upto 25mm	sqm	1596.00	34.16	Rupees Thirty Four and Paisa Sixteen Only	54519
TOTAL OF SUB HEAD-4.0						70033
GRAND TOTAL						3513237

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Chief Engineer

NATIONAL GAMES SECRETARIAT

NAME OF WORK:- RENOVATION OF RAJA KESAVADAS SWIMMING POOL , ALAPPUZHA

**TENDER SCHEDULE
PART B- ELECTRICAL**

Item. No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
1.0	LT PANEL BOARD AND ACCESSORIES					
1.1	KSEB METERING PANEL Supply, installation, testing and commissioning of outdoor duty (IP 54) pedestal mounted type weatherproof ,double door type KSEB metering panel , suitable for accomodating KSEB energy meter (supply of energy meter is under KSEB scope) and consisting of 3 nos. of 125A HRC Fuse base with HRC fuses, 3 nos of 75/5A CTs Class 0.5 CT (or as per KSEB) ,3 nos of 2A SP MCB ,inter connections , providing necessary supports made from the same gauge CRCA sheet to fix energy meters, etc . and to be fabricated out of 16 SWG MS sheet with locable door having glass window, sealing facility for KSEB, top cover and necessary overhang, undergone seven tank process ,powder coated finish and all mounting accessories as required complete with civil foundation.The panel shall be with all accessories as per drawing & specification. (Refer particular specification).	no	1	10028.00	Rupees Ten Thousand Twenty Eight Onty	10028.00
1.2	MSB Supply, installation, testing & commissioning of totally enclosed free standing floor mounting dust & vermin proof indoor cubicle type IP42 panel board suitable for 415V, 3 phase, 50Hz supply with provision for fixing incoming & outgoing switches fabricated using 2 mm MS sheet powder coated with necessary cable alley & bus bar chamber for all switches. The panel shall be with all accessories as per drawing & specification. (Refer particular specification).					

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Item. No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
	<p>Incomer 125A, Four Pole Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 125A Din type HRC fuse unit, neutral link etc. - 1No. 2A, C curve SP MCB - 3 nos. RYB indication lamp, LED type - 3 nos. (0-500)V voltmeter, Acc. class 1 with 90 deg defl. scale - 1 no. (0-100)A ammeter Acc. class 1 with 90 deg defl. scale - 3 nos 6A 3 pole voltmeter selector switch - 1 no. 100/5A 5VA class 1 resin cast CT - 1 set The panel shall be provided 1set 100/5A, 10VA, class 1, CT for APFC relay for capacitor panel 125A TPN busbar chamber with Aluminium busbar.</p> <p>Outgoing 100A, TPN Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 63A Din type HRC fuse unit, neutral link etc. - 1No. 63A, TPN Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 63A Din type HRC fuse unit, neutral link etc. - 2Nos. 63A, TPN Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 40A Din type HRC fuse unit, neutral link etc. - 2Nos. 63A, TPN Switch disconnecter fuse unit (SDFU) AC 23A complete with all accessories including handle, 3nos 32A Din type HRC fuse unit, neutral link etc. - 1Nos.</p>	no	1	103551.00	Rupees One Lakh Three Thousand Five Hundred and Fifty One Only	103551.00
	SUB TOTAL PART - A					113579.00

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Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
2.0	PART B WIRING AND ACCESSORIES					
2.1	Supply & wiring for following points in surface/recessed mounted rigid medium gauge 20mm PVC conduit with all accessories, using 3 runs of 1.5 sqmm FRLS PVCinsulated stranded copper conductor single core wire for phase, neutral & earth, with modular 6A one way switch, modular front plate, suitable GI box, ceiling rose etc as required. The total distance from the switch box to the point will not exceed 5mtr, incase if length increases above 5 metres, the extra length wiring shall be measured under item 2.4					
	Light point/ exhaust fan point/call bell point	no	9	1170.00	Rupees One Thousand One Hundred and Seventy Only	10530.00
2.2	Copper plug point wiring - Wiring for power plug with 2x4 sq. mm., PVC insulated, copper conductor, stranded cable (FRLS) along with 1x2.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface/recessed PVC conduit etc.as required complete .	m	50	272.00	Rupees Two Hundred and Seventy Two Only	13600.00
2.3	Copper circuit wiring - Wiring for circuit with 2x2.5 sq. mm., PVC insulated, copper conductor, stranded cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface/recessed pvc conduit etc as required complete	m	140	222.00	Rupees Two Hundred and Twenty Two Only	31080.00
2.4	Copper circuit wiring - Wiring for circuit wiring with 2x1.5 sq. mm., PVC insulated, copper conductor, stranded cable (FRLS) along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing as required complete	m	320	202.00	Rupees Two Hundred and Two Only	64640.00

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Chief Engineer

Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
2.5	Group controlled light point with 1.5 sq. mm wire - Wiring for Group controlled light point (from one point to another point) with 2 run 1.5 sq. mm PVC insulated, (FRLS), copper conductor cable along with 1x1.5 sq. mm., PVC insulated, copper conductor, stranded cable for loop earthing in surface / recessed PVC conduit. Note:- This item does not include the cost of MCB or 16Amp/ 6Amp one way switches. The total distance from one point to another point will not exceed 5meters. In case if the total length increases 5meters, the additional length shall be measured under item 2.4 The distance from DB to 1st point will be measured under item circuit wiring	no	2	1047.00	Rupees One Thousand and Forty Seven Only	2094.00
2.6	Supply and fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing 2/3 pin combined 6A modular socket outlet and 6 A modular switch with connection etc as required.	no	3	464.00	Rupees Four Hundred and Sixty Four Only	1392.00
2.7	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing & fixing of 16A modular switch with connection etc as required.	no	4	367.00	Rupees Three Hundred and Sixty Seven Only	1468.00
2.8	Supply & fixing suitable size GI box with modular front plate and cover on surface or in recess, including providing and fixing of 3pin 16A modular socket outlet with connection etc as required.	no	4	440.00	Rupees Four Hundred and Forty Only	1760.00
2.9	Supply & fixing of following rigid medium gauge PVC conduit along with all accessories in surface/recess including cutting the wall and making good the same in case of recess mounting as required.					
2.9.1	20 mm	m	20	114.00	Rupees One Hundred and Fourteen Only	2280.00

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Chief Engineer

Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
2.9.2	25 mm	m	20	124.00	Rupees One Hundred and Twenty Four Only	2480.00
SUB TOTAL (PART B)						131324.00
PART C						
3.0	MCBs AND MCB DISTRIBUTION BOARDS					
3.1	Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper/brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall, making good the damages, colour washing etc. as required.					
3.1.1	8 way (8+24) - double cover TPN vertical DB with provision for fixing 4P MCB/Isolator/RCCB/RCBO as incomer and SP/TP MCB as outgoing (IP 42/43) Note: There should be facility to terminate incoming cables of size upto 35 sq.mm AYFY and outgoing cables of size upto 4x16 sq.mm AYFY	no	1	6139.00	Rupees Six Thousand One Hundred and Thirty Nine Only	6139.00
3.1.2	8 way (8+24) -three phase double cover horizontal (IP 42/43)	no	1	3455.00	Rupees Three Thousand Four Hundred and Fifty Five Only	3455.00
3.1.3	DP enclosure for independent mounting of MCB	no	1	310.00	Rupees Three Hundred and Ten Only	310.00
3.1.4	FP enclosure for independent mounting of MCB/Isolator	no	2	313.00	Rupees Three Hundred and Thirteen C	626.00
3.2	Supply and fixing of following rating residual current circuit breaker having earth leakage protection (RCBO) as per specification as required					
3.2.1	4 pole 32 amps. (415 Volts), 30mA sensitivity.	no	1	3781.00	Rupees Three Thousand Seven Hundred and Eighty One Only	3781.00
3.2.2	4 pole 63amps. (415 Volts), 100mA sensitivity.	no	1	4514.00	Rupees Four Thousand Five Hundred and Fourteen Only	4514.00
3.3	Supply and fixing of following rating, 10 KA, Miniature circuit breakers of the following series as required.					

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Chief Engineer

Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
3.3.1	6A to 32A, SP, B/C-CURVE	no	20	213.00	Rupees Two Hundred and Thirteen Only	4260.00
3.3.2	6-32A TP MCB, C-CURVE MCB	no	4	846.00	Rupees Eight Hundred and Forty Six Only	3384.00
3.3.3	32A four pole mini break isolator with enclosure	no	1	674.00	Rupees Six Hundred Seventy Four Only	674.00
3.3.4	25A four pole mini break isolator with enclosure	no	2	674.00	Rupees Six Hundred Seventy Four Only	1348.00
3.4	Supply and fixing cable end boxes for the following types of DB with necessary bolts and nuts etc. as required .					
3.4.1	Suitable for all types of IP 43 vertical DB (Group B)	no	1	916.00	Rupees Nine Hundred and Sixteen Only	916.00
3.4.2	Suitable for IP 43, 8 way, TPN DB (Group B)	no	1	2014.00	Rupees Two Thousand and Fourteen Only	2014.00
3.5	Supply and fixing of SP MCB blanking plate	no	4.00	25.00	Rupees Twenty Five Only	100.00
	SUB TOTAL (PART C)					31521.00
	PART D					
4.0	LIGHT FIXTURES AND FANS					
4.1	Supply of 1x28W surface mounted decorative fluorescent lamp fixture with T5 electronic batten, including 28W T5 lamp,prewired complete with all necessary accessories as required (Sample shall be approved by the engineer in charge)	no	6	630.00	Rupees Six Hundred and Thirty Only	3780.00
4.2	Supply of surface mounted type Bulk head luminaire suitable for use with 9W CFL lamps with clear glass including supply of 9W CFL lamp, prewired complete with all necessary accessories as required (Sample shall be approved by the engineer in charge)	no	4	1030.00	Rupees One Thousand and Thirty Only	4120.00

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Chief Engineer

Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
4.3	Supply, conveyance, installation, testing and commissioning of ceiling fan , using standard accessories excluding speed regulators suitable for 230 V/240 V 50 HZ, AC supply wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100 v grade 3 core round copper conductor flex wire or with extended original wiring etc. as required. confirms to IS 374/1979 as required complete. 1200mm sweep	no	1	1734.00	Rupees One Thousand Seven Hundred and Thirty Four Only	1734.00
4.4	Installation, testing and commissioning of prewired fluorescent/ CFL fitting of all types complete with all accessories and fluorescent lamps of all types directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required.	no	10	127.00	Rupees One Hundred and Twenty Seven Only	1270.00
4.5	Supply and fixing of 2 module type, 5 speed electronic fan regulator 120watts rating with non metallic front plate including providing and fixing suitable size metal box in surface/ recess with all necessary accessories as required.	no	1	532.00	Rupees Five Hundred and Thirty Two Only	532.00
4.6	Numbering of ceiling fan / exhaust fan/ fluorescent fitting as required.	no	11	29.00	Rupees Twenty Nine Only	319.00
	SUB TOTAL (PART D)					11755.00
5.0	PART E CABLES AND CABLING					
5.1	Supply of following size 1.1 KV grade XLPE insulated, PVC sheathed, armoured Aluminium /copper conductor cable conforming to IS 7098 (Part 1) amended upto date.					
5.1.1	3.5C70 Sq.mm Al	m	120	442.00	Rupees Four Hundred and Forty Two Only	53040.00

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Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
5.1.2	4C 25 Sq.mm Al	m	10	255.00	Rupees Two Hundred and Fifty Five Only	2550.00
5.1.3	3.5C 35 Sq.mm Al	m	20	229.00	Rupees Two Hundred and Twenty Nine Only	4580.00
5.1.4	4C 16 Sq.mm Al	m	40	176.00	Rupees One Hundred Seventy Six Only	7040.00
5.1.5	4C 10 Sq.mm Al	m	20	141.00	Rupees One Hundred and Forty One Only	2820.00
5.1.6	3C 4 Sq.mm Al	m	20	95.00	Rupees Ninety Five Only	1900.00
5.1.7	4C 4 Sq.mm Al	m	200	116.00	Rupees One Hundred and Sixteen Only	23200.00
5.2	Supplying and making end termination with brass compression gland and aluminium/Copper lugs for following size of XLPE insulated PVC sheathed aluminium conductor cable of 1.1 kV grade as required.					
5.2.1	3.5C70 Sq.mm Al	no	4	477.00	Rupees Four Hundred and Seventy Seven Only	1908.00
5.2.2	3.5C 35 Sq.mm Al	no	2	407.00	Rupees Four Hundred and Seven Only	814.00
5.2.3	4C 25 Sq.mm Al	no	2	368.00	Rupees Three Hundred and Sixty Eight Only	736.00
5.2.4	4C 16 Sq.mm Al	no	4	347.00	Rupees Three Hundred and Forty Seven Only	1388.00
5.2.5	4C 10 Sq.mm Al	no	2	312.00	Rupees Three Hundred and Twelve Only	624.00
5.2.6	3C 4 Sq.mm Al	no	2	290.00	Rupees Two Hundred and Ninety Only	580.00
5.2.7	4C 4 Sq.mm Al	no	50	292.00	Rupees Two Hundred and Ninety Two Only	14600.00
5.3	Laying and clamping of 1no. PVC/XLPE insulated and PVC sheathed armoured power cable, 1.1KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages colour washing etc. as required					
5.3.1	Cable size not exceeding 25Sq mm	m	70	95.00	Rupees Ninety Five Only	6650.00

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Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
5.3.2	Above 25 Sq.mm upto 120 Sq.mm	m	30	145.00	Rupees One Hundred and Forty Five Only	4350.00
5.4	Laying of one number PVC/XLPE insulated and PVC sheathed armoured power cable of 1.1kV grade of the following sizes in ground including excavation of trench of size 35x75cm, sand cushioning up to a height of 25cm (8cm+17cm), providing protective covering with country burnt bricks laid breadth wise, refilling the trench etc. as required					
5.4.1	Cable size not exceeding 25Sq mm	m	90	234.00	Rupees Two Hundred and Thirty Four Only	21060.00
5.4.2	Above 25 Sq.mm upto 120 Sq.mm	m	80	251.00	Rupees Two Hundred and Fifty One Only	20080.00
5.5	Laying of one number additional PVC/XLPE insulated and PVC sheathed armoured power cable of 1.1kV grade of the following sizes in ground in the same trench in one tier horizontal formation including widening the trench by 20cm, sand cushioning up to a height of 25cm (8cm+17cm), providing protective covering with country burnt bricks laid breadth wise, refilling the trench etc. as required.					
5.5.1	Cable size not exceeding 25Sq mm	m	100	149.00	Rupees One Hundred and Forty Nine Only	14900.00
5.5.2	Above 25 Sq.mm upto 120 Sq.mm	m	10	157.00	Rupees One Hundred and Fifty Seven Only	1570.00
5.6	Laying of one number PVC/XLPE insulated and PVC sheathed armoured power cable of 1.1kV grade of the following sizes in the existing RCC/HUME/STONEWARE/GI/DWC pipe as required					
5.6.1	Upto 25 sq.mm	m	20	45.00	Rupees Forty Five Only	900.00
5.6.2	Above 25 Sq.mm upto 120 Sq.mm	m	20	62.00	Rupees Sixty Two Only	1240.00

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Chief Engineer

Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
5.7	Supplying and installation including all manner of supports/suspenders, anchor bolts etc. for cable trays made out of sutiabel size channel sections, slotted angles, flats, MS plates etc. as required including painting with 2 coats of synthetic enamel paint over a coat of zinc chromate primer, making good the damages colour washing etc. as required.	kg	70	96.00	Rupees Ninety Six Only	6720.00
5.8	Supply and clamping the following sizes of 'B' class GI pipe on wall or in ground with all required accessories & clamps etc. including cutting and making good the walls, painting the exposed portions etc., as protective covering to earth leads/cables					
5.8.1	40 mm	m	30	259.00	Rupees Two Hundred and Fifty Nine Only	7770.00
5.8.2	50 mm	m	30	304.00	Rupees Three Hundred and Four Only	9120.00
SUB TOTAL (PART E)						210140.00
PART F						
6.0 EARTHING AND SAFETY EQUIPMENTS						
6.1	Supply and providing ISI pipe earthing as per IS 3043 with 2.5 meter long 40mm dia B class GI pipe with 12mm dia holes, providing GI funnel with weld mesh, fixing GI strip of size 50x6mm with min. length of 20cm clamped with 50x5mm GI flat using 12x10mm GI bolt & nut at top of the GI pipe as test joint, filling around the GI pipe at a radius of 15cm with a homogeneous of charcoal, & sieved earth upto a height of 2.0 meter from the bottom, filling the rest of the portion with excavated soil including watering and ramming providing brick work (20cm) masonry at top in 1:6 cm cement mortar, plastering the inside and top of the manhole with 12mm thick 1:6 cement mortar and providing 300x300x6mm CI covering at the top.	set	4	5635.00	Rupees Five Thousand Six Hundred and Thirty Five Only	22540.00

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Chief Engineer

Item No.	Description of Items	Unit	Qty	Rate in figures (Rs)	Rate in words	Amount (Rs)
6.2	Supplying and laying following GI or copper strip / wire at 0.6m below ground level including excavation and refilling or on surface with mounting saddles for conductor earth electrode including welding etc as required.					
6.2.1	25x3 mm copper strip tinned at the points of contacts	m	300.00	476.00	Rupees Four Hundred and Sevetly Six Only	142800.00
6.2.2	3.15mm copper conductor (10 SWG)	m	120.00	83.00	Rupees Eighty Three Only	9960.00
6.2.3	4.00 mm GI conductor (8 SWG)	m	50	32.00	Rupees Thirty Two Only	1600.00
6.3	Supply and providing 6mm thick & 1m wide and 2m long electrical grade chequered type rubber mat to withstand 3.3KV dielectric strenath conformina to IS 5429/1969.	job	1	1158.00	Rupees One Thousand One Hundred and Fifty Eight Only	1158.00
6.4	Supplying of Rubber hand gloves suitable for 1.1 KV.	pair	1	360.00	Rupees Three Hundred and Sixty Only	360.00
	SUB TOTAL (PART F)					178418.00
	GRAND TOTAL					676737.00

Tenderer

Chief Engineer

NATIONAL GAMES SECRETARIAT

**NAME OF WORK:- RENOVATION OF RAJA KESAVADAS SWIMMING POOL , ALAPPUZHA
TENDER SCHEDULE :- ABSTRACT**

Description	Amount (Rs.)
Civil Works	3513237
Electrical Works	676737
Total	4189974
Deduct value of market rate items	3506985
Value of PWD SOR items	682989
Add value of market rate items	3506985
Grand total	4189974

(Forty One Lakhs Eighty Nine Thousand Nine Hundred and Seventy Four Rupees only)

I/We agree to carry out the work at par with estimate(1) at estimate rate.....

.....

(2).....% above the estimate (in figure & words)

.....

(3).....% below the estimate (in figure & words)

** Tender excess/deduction will not be applicable for market rate items in the schedule of contract

Signature of Contractor

Witness

Name.....

Address.....