Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as **Deposit**work—Period of Completion Six Months and Maintenance of the Scheme Three Months

BILL OF QUANTITIES.
[SCHEDULE-A]

GENERAL ABSTRACT

Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work – Period of Completion Six Months and Maintenance of the SchemeThree Months

SI. No.	Schedule No	Name of Components	BOQ Value in Rupees
1	A 1	Construction of 1.00 LL capacity Sump	695098.80
2	A 2	Submersible pumpsets 225 lpm x 48m head	286089.15
3	A 3	Construction of Pump Room of size 1.50 X 1.50 X2.40M	78749.65
4	A 4	Construction of 30000 Lit -12m Staging height OHT	782216.31
5	A 5	Laying and Jointing of PVC / DI K7 pipes for Pumping main	446539.50
6	A 6	Maintenance of the scheme - Three month	0.00
		Total	2288693.41
		GST @12%	274643.21
		Grand Total	2563336.62

Rupees Twenty five Lakhs, Sixty three thousand, three hundred and thirty six and Paise sixty two only.

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													Р	ERCENT	AGE
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PE	RCENT	AG	E SH	OULE) BE I	MENTI	ONED	вотні	N FIGU	RES A	ND V	WORDS)			

SCHEDULE - A1

Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work

Construction of 1.00 LL capacity Sump

Item No	Description of Work	Proba Quant		TNBP No. & Other	Unit (Both in words and		Amount in figures	
		Qty	Unit	Specification	figures)	Figures	Words	
1	2	3		4	5	6	7	8
1	Earth work excavation and depositing on bank with an initial lead of 10 metre & initial lift of 2 metre in the following classifictaion of soil including shoring, strutting, bailing out water providing danger light wherever necessary and depositing surplus earth within a lead of 10m from the trenches etc., complete for foundation and as directed by TWAD Board Officers			TNBP 23 & SS 20 B. and Spl. Specn.				
а	In hard stiff clay, stiff black cotton hard red earth shales murrams gravel stoney earth and earth mixed with small sized boulders and hard garvelly soil First depth of 0 to 2m	65.212	m ³		1 Cum (One Cubic metre)	63.40	Rupees Sixty three and paise fourty only	4134.44
2	Earthwork excavation and depositing on bank with an initial lead of 10 metre and initial lift of 2 metre in soft desintegrated rock, laterite, soft rock or kankar, not requiring blasting and depositing the surplus earth etc complete and as directed by TWAD Board officer 0m to 2m	15.216	m ³	TNBP 23 & SS 20 B. and Spl. Specn.	1 Cum (One Cubic metre)	97.70	Rupees Ninety seven and paise seventy only	1486.60
3	Earthwork excavation and depositing on bank with an initial lead of 10 metre and initial lift of 2 metre in Medium rock and Dense medium rock not requiring blasting and depositing the surplus earth etc complete and as directed by TWAD Board officer 2nd depth of 2m to 3m	15.216	m ³	TNBP 23 & SS 20 B. and Spl. Specn.	1 Cum (One Cubic metre)	314.40	Rupees Three hundred and fourteen and paise forty only	4/83 911

Item No	Description of Work	Proba Quant		TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
		Qty	Unit	Specification	figures)	Figures	Words	
1	2	3		4	5	6	7	8
4	Supply and filling with clear river sand in layers complying with standard specification including consolidation and watering etc. complete and as directed by TWAD Board Officers.	6.521	m ³	SS 24 , 25 and Spl. Specn.	1 Cum (One Cubic metre)	500.71	Rupees Five hundred and paise seventy one only	3265.13
5	Plain cement concrete with P.C.C 1:4:8 (one cement, four sand and eigth course aggregate) using 40 mm H.B.G stone for levelling course including cost of mixing cement, placing, ramming and curing etc., complete and as directed by the TWAD Board Officers. Beyond 1.50 m & up to 4.50 m below GL	6.521	m ³	SS No. 28,30,39,39 H and Spl. Specn.	1 Cum (One Cubic metre)	3366.15	Rupees Three thousand three hundred and sixty six paise fifteen only	21950.66
6	Reinforced cement concrete mix M 30 grade using10mm & 20mm hard blue granite stone (Machine crushed) for the following members. The rate is excluding cost of steel reinforcement centering shuttering, strutting but including cost of all materials, mixing, laying the concrete with mechanical vibrators, ramming consolidating, finishing curing etc. complete and as directed by TWAD Board officers.			SS 28, 30 and Spl. Specn.				
а	Beyond 1.50m & upto 4.50m below GL	11.578	m ³		1 Cum (One Cubic metre)	4919.23	Rupees Four thousand nine hundred and ninteen and paise twenty three only	56954.84
b	upto 1.50m below GL	5.709	m ³		1 Cum (One Cubic metre)	4852.23	Rupees Four thousand eight hundred and fifty two paise twenty three only	27701.38
С	Upto 4.50m above GL from GL	13.220	m ³		1 Cum (One Cubic metre)	4852.23	Rupees Four thousand eight hundred and fifty two paise twenty three only	64146.48

Item No	Description of Work	Proba Quant	ity	TNBP No. & Other Specification	Unit (Both in words and figures)	-	Rates in	Amount in figures
1	2	Qty 3	Unit	4	5	Figures 6	Words 7	8
	Supplying, Cutting, bending, tying, fabricating & placing in position of steel rods for all RCC works including cost of steel and binding wire etc but excluding cost of centering and shuttering, strutting etc complete. The steel should confirm to the relavant IS specification and supplied with test certificate (Fe. 415 grade as per IS specification No. 1786 / 1985 and as amended from time to time) for delivery at site of work including loading, freight, unloading , stacking, transit insurance charges, taxes, etc., complete and as directed by TWAD Board Officers.	31.160	Qtl	SS 30 and Spl. Specn.	1Qtl (One Quintal)	6187.50	Rupees Six thousand one hundred and eighty seven paise fifty only	192802.50
8	Centering for soffits of RCC members including shuttering, strutting to the centering and providing supports etc. for the following members using MS sheets of size 90cm x 60cm and BG 10 gauge stiffened with welded MS angle of size 25mm x 25mmx3mm laid over silver oak (country wood) joist of size 10cmx6.5cm spaced at about 90cm c/c and casuriuna props of 10 cm to 13 Cm dia spaced at 75cm c/c for various heights etc. complete and as directed by TWAD Board Officers.(The centering should be removed after the specified striping time of the concrete as per IS456/1978)			SS 30 , 34 & Spl.Specn				
а	0.00 to 3.30 m Plane surface	1.080	m ²		1 Sqm (One Square metre)	573.00	Rupees Five hundred and seventy three only	618.84
b	0.00 to 3.30m Curved surface	145.812	m ²		1 Sqm (One Square metre)	859.00	Rupees Eight hundred and fifty nine only	125252.51

Item No	Description of Work	Proba Quant		TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
		Qty	Unit	Specification	figures)	Figures	Words	
1	2	3	•	4	5	6	7	8
С	Circular column (0.00 m to 3.30m)	1.287	m ²		1 Sqm (One Square metre)	1375.20	Rupees one thousand three hundred and seventy five and paise twenty only	1769.88
d	3.30m to 4.30m Plane surface	35.138	m²		1 Sqm (One Square metre)	598.00	Rupees Five hundred and ninety eight only	21012.52
е	3.30 m to 4.30m Curved Surface	9.741	m ²		1 Sqm (One Square metre)	1400.20	Rupees one thousand four hundred and paise twenty only	13639.35
9	Supply, delivery and fixing of CI Manhole cover with frame of size 0.60 m x 0.60 m with locking arrangements The manhole cover frame should be edged with MS angle 50 x 50 x 3mm etc complete and as directed by the TWAD Board Officers.	2.000	Nos	Special Specification	1 No (One Number)	500.00	Rupees Five hundred only	1000.00
10	Supply and fixing of 100mm AC Cowl and Ventilator cost of all materials, centering, shuttering, strutting, reinforcement, placing of concrete, finishing, curing and fixing in position on the roof slab with complete and as directed by TWAD Board officers	2.000	Nos	Special Specification	1 No (One Number)	50.00	Rupees fifty only	100.00
11	Supplying and fixing of cut stone of size 0.3 x 0.3m in cement mortar 1: 3 (one cement and three sand)below inlet pipe in the sump and as directed by the TWAD Board officers.	1.000	No.	Special Specification	1 No (One Number)	170.00	Rupees one hundred and seventy only	170.00

Item No	Description of Work	Proba Quant		TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
		Qty	Unit	Specification	figures)	Figures	Words	_
1	2	3		4	5	6	7	8
12	Supply and fixing in position of reinforcement concrete mix M30 grade should be made up of two ribs of sze 0.075 x 0.075 m at 30 cm c/c inside "Access Ladder " of approved design and pattern inside the tank. The concrete should be of M 30, 8 mm RTS rod 4 Nos. For rings with 8 mm RTS stirrups at 30 cm C/c and 8 mm RTS 2 Nos. For steps with 4 nos rods as Distribution including cost of cement, reinforcement centering shuttering strutting etc, complete and as directed by the TWAD Board Officers.	1.000	No	SS 28, 30 and Special Specification.	1 No (One Number)	4100.00	Rupees Four thousand one hundred only	4100.00
13	Fabrication, supply,delivery and fixing of outside M.S. ladder of 45 cm clear wide made out of 50 mm x 50 mmm x 6 mm M.S. Angle for sides and steps in 16 mm MS plain rods fixed at 30 cm C/C welded joint etc., providing with suitable side supports , clamps and locking arrangements provided with two coats of approved enamel paint over one coat of red oxide paint, for providing access to roof top of sump of suitable inclined length, including bottom anchorage and transportion and as directed by TWAD Board Officers. The rate includes concrete bed block in CC 1:2:4 using 20 mm HBGS at top and bottom of suitable size with necessary anchor bolts etc, complete and as directed by the TWAD Board Officers.	1.000	No	special specification	1 No (One Number)	9100.00	Rupees Nine thousand and one hundred only	9100.00
14	Disposal of surplus earth upto 3km away from the sump with standard specification and as directed by the TWAd Board officers	162.480	m ³	special specification	1 Cum (One Cubic metre)	58.96	Rupees Fifty eight and paise ninety six only	9579.82

Item No	Description of Work	Proba Quant		TNBP No. & Other	Other words and Rates in		Rates in	Amount in figures
		Qty	Unit	Specification	figures)	Figures	Words	
1	2	3		4	5	6	7	8
15	Painting two coats with approved cement paint over one priming coat of white cement over cement plastered wall surface and ceiling including cleaning preparing the surface and curing etc., complete (using cement paint of colour as approved by the Departmental officer) and as directed by the Departmental officers	44.822	M^2	SS 56,66A & Special Specification	1 Sqm (One Square metre)	120.50	Rupees One hundred and twenty and paise fifty only	5401.05
16	Refilling the sides of side wall with excavated earth (other than sand) in layers of 15 cm thick well rammed consolidated including watering etc., complete with standard specification and as directed by TWAD Board Officer	10.213	m ³	SS 24 , 25 and Special Specification	1 m³ (One Cubic metre)	22.20	Rupees Twenty two and paise twenty only	226.73
	INLET CONNECTION at SUMP							
17	Supply and delivery of following CI Pipes and specials as per IS 7181/1986 & IS 1537/1996 and 1538/1993 for inter connection work. The rate is inclusive of transportation, loading, unloading freight insurance charges and stacking at site of work etc.complete and as directed by TWAD Board officers.							
а	100mm X2.75m CI D/F pipe-2Nos(78.25 Kg X2)=156.50 Kg	156.500	Kg		1 kg (One Kilogram)	66.00	Rupees Sixty six only	10329.00
b	100mm X 2.00m CI D/F pipe -1 No (59.20 Kg x1=59.20 Kg)	59.200	Kg	IS 7181/1986	1 kg (One Kilogram)	66.00	Rupees Sixty six only	3907.20
С	100mm X1.30m CI D/F pipe -1No (46.50KGX1=46.50 Kg)	46.500	Kg	& IS 1537/1996	1 kg (One Kilogram)	66.00	Rupees Sixty six only	3069.00
d	100mm X 0.50 M CI D/F Pipe -1No (21.10 KgX 1= 21.10 Kg)	21.100	Kg	and 1538/1993 and as amended from	1 kg (One Kilogram)	66.00	Rupees Sixty six only	1392.60

Item No	Description of Work	Proba Quan		TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
		Qty	Unit	Specification	figures)	Figures	Words	3
1	2	3		4	5	6	7	8
е	100mm X 0.30 M CI D/F Pipe -1No (16.02 KgX 1= 16.02 Kg)	16.020	Kg	time to time and Spl. Specification	1 kg (One Kilogram)	66.00	Rupees Sixty six only	1057.32
f	100mm dia CI D/F Slot Pipe 1No x 1.00m length D/F pipe = 2 Nos x 33.80kg= 67.60 kg	67.600	Kg	IS 14846/2000 PN 1.0 WITH	1 kg (One Kilogram)	66.00	Rupees Sixty six only	4461.60
g	100mm Duck foot bend-1No (26Kg X1=26.00Kg)	26.000	Kg	131 WARKING	1 kg (One Kilogram)	62.00	Rupees Sixty two only	1612.00
h	100mm X90 deg D/Fbend-2Nos (17.00 Kg X2Nos =34.00Kg)	34.000	Kg		1 kg (One Kilogram)	62.00	Rupees Sixty two only	2108.00
1	100mm CI /DF Sluice valve	2.000	No		1 No (One Number)	6884.00	Rupees Six thousand eight hundred and eighty four only	13768.00
j	100mm CI Flags /Skt tail Piece-1No	16.000	Kg		1 kg (One Kilogram)	62.00	Rupees Sixty two only	992.00
k	100mm DI Socket / Spigot Pipes for Class K7 as per IS 8329/2000	33.000	m		1M(One metre)	1019.00	Rupees One thousand nineteen only	33627.00
18	OVER FLOW ARRANGEMENTS							
а	100mm X2.75m CI D/F pipe-1Nos(78.25 Kg X1)=78.25Kg	78.250	Kg		1 kg (One Kilogram)	66.00	Rupees Sixty six only	5164.50
b	100mm X1.30m CI D/F pipe -1No (46.50KGX1=46.50 Kg)	46.500	Kg		1 kg (One Kilogram)	66.00	Rupees Sixty six only	3069.00
С	100mm X1.00m CI D/F pipe -1No (33.80KGX1=33.80Kg)	33.800	Kg		1 kg (One Kilogram)	66.00	Rupees Sixty six only	2230.80
d	100mm Duck foot bend-1No (26Kg X2=52.00Kg)	52.000	Kg		1 kg (One Kilogram)	62.00	Rupees Sixty two only	3224.00
е	100mm X90 deg D/Fbend-1No (17.00 Kg X1No =17.00Kg)	17.000	Kg		1 kg (One Kilogram)	62.00	Rupees Sixty two only	1054.00
f	100mm CI Bell Mouth- 1No (9.00 Kg)	9.000	Kg		1 kg (One Kilogram)	62.00	Rupees Sixty two only	558.00
g	100mm CI Flags /Skt tail Piece-1No	16.000	Kg		1 kg (One Kilogram)	62.00	Rupees Sixty two only	992.00
h	100mm DI Socket / Spigot Pipes for Class K7 as per IS 8329/2000	18.000	М		1M(One metre)	1019.00	Rupees One thousand nineteen only	18342.00

Item No	Description of Work	Proba Quan		TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
		Qty	Unit	Specification	figures)	Figures	Words	J
1	2	3	•	4	5	6	7	8
19	Laying of CI D/F pipes and specials to proper grade and alignment excluding cost of pipes and specials and jointing materials etc. complete and as directed by TWAD Bd officers	15.650	М	Special Specification	1M(One metre)	12.42	Rupees Twelve and paise forty two only	194.37
20	Lowering of C.I/ D.I Pipes and specials in the trenches and laying to proper grade and alignment and as directed by the TWAD Officers.	51.000	М	Special Specification	1M(One metre)	12.44	Rupees Twelve and paise forty four only	634.44
21	Jointing the 100 mm dia CI D/F Pipes and Specials with rubber insertion to required specification with M.S. Bolt and Nuts including cost of jointing materials etc complete as per standard specification and as directed by the TWAD Board Officers.	22	joints	Special Specification	1 joint (One joint)	49.55	Rupees Forty nine and paise fifty five only	1090.10
22	Supply and Delivery of following size of bolts and nuts and rubber insertion sheet			Special Specification				
а	16mm X87.5 mm bolt and nut-176 Nos(0.325X 176Nos=57.20Kgs)	57.200	Kg		1 kg (One Kilogram)	93.00	Rupees Ninety three only	5319.60
b	6mm Rubber insertion Sheet 22 Nos (22X0.58 Kg=12.76 Kg)	12.760	KG		1 kg (One Kilogram)	82.00	Rupees Eighty two only	1046.32
	Earth work excavation and depositing on bank with an initial lead of 10 metre & initial lift of 2 metre In hard stiff clay, stiff black cotton hard red earth shales murrams gravel stoney earth and earth mixed with small sized boulders and hard garvelly soil	31.000	m ³	TNBP 23 & SS 20 B. and Spl. Specn.	1 m³ (One Cubic metre)	125.61	Rupees One hundred and twenty five paise sixty one only	3893.91
24	Refilling the sides of side wall with excavated earth (other than sand) in layers of 15 cm thick well rammed consolidated including watering etc., complete with standard specification and as directed by TWAD Board Officer	31.000	m ³	SS 24 , 25 and Special Specification	1 m³ (One Cubic metre)	17.25	Rupees Seventeen and paise twenty five only	534.75

Item No	Description of Work	Probable Quantity		Other	Unit (Both in words and		Amount in figures	
		Qty	Unit	Specification	figures)	Figures	Words	
1	2	3		4	5	6	7	8
25	Painting TWAD Board Emblem and writing the slogan in accordance with the size and as per board specification with approved colour and quality of paint on the enterior surface of the sump etc. Completeand as directed by TWAD Board Officers.	1.125	M^2	Special Specification	1 Sqm (One Square metre)	1982.78	Rupees One thousand nine hundred and eighty two and paise sevety eight only	2230.63
	TOTAL						Rs.	695098.80

SCHEDULE - A 2

Additional works for providing 0.80LLD water supply to IVPM, Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work

Submersible pumpsets 225 lpm x 48m head

Item No	Description of Work	Probable Q	uantity		Unit (Both in words and figures)		Amount in figures	
		Qty	Unit	Opcomoation	riguics)	Figures	Words	
1	2	3		4	5	6	7	8
	Supply and delivery of Open well Submersible pump set conforming to IS 14220 /2002 and as amended thereafter and BEE 3 Star Rated capable of discharging the following duties due to all causes. The pump shall be with stainless steel shaft and dynamically balanced bronze mixed type impeller, CI FG 200 grade casing and brass screws and rotor shall be of copper rod as per IS 613/1984 with ISI mark. The pump suitable for installation in sump with 1.1KV grade 3 core suitable copper flat submersible cable to a length of 15m with necessary cable joints. The non-return valve located at the top of the pump in the discharge outlet connection is to be designed with minimum friction. The pump should be directly coupled to 2880 RPM, three phase, 50 Hz (±5), 415V+6% & 415V-15% squirrel cage induction motor suitable for DOL upto 5 HP , Fully Automatic Air break Star Delta up to 20 HP and Auto Transformer starter for above 20 HP starting and for continuous operation.etc., complete and as directed by TWAD Board Officers			IS 14220 /2002 and as ammended from time to time				
а	225 lpm x 48m head	3	Nos		1No (One Number)	29062.00	Rupees Twenty nine thousand sixty two only	87186.0

Item No	Description of Work	Probable Q		TNBP No. & Other Specification	Unit (Both in words and figures)		Amount in figures	
		Qty	Unit	•	- '	Figures	Words	
1	2	3	1	4	5	6	7	8
	Supply and delivery of wall mounting type control panel made up of M.S. sheet 18 SWG vermin proof, box type with hinged front door and fixed sides with inter locking facility suitable for running one pump set alone at a time for erection in control room complete with internal wiring of control panel with provision for cable entry and for delivery including two coats of enamel paint over red oxide and shall be provided with the following configurations which are suitable for the motor offeredof 3 phase panel board D-O.L starter with two level guard confirming to IS Including capactior Specification for 5.00HP pumpset. (Suitable consisting of TPICN switches, starters, voltmeter, Ammeter, three pilot (indicating) lamps, capacitor, single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc.,complete and testing the pump set		Nos	IS 13947 and IEC 60947-1 and as ammended from time to time	1No (One Number)	13006.00	Rupees Thirteen thousand and six only	39018.00
	Supply and fixing of Change over Switches to operate any one of Pumpset in one set of pumpset using 63 Amps three phase 500 V 4 pole Change over switch (GEM /HAVELLS / HPL/STANDARD /EQUIVALENT) etc., complete and as directed by TWAD Board Officers	1	No.	Special Specification	1No (One Number)	3080.00	Rupees Three thousand eighty only	3080.00
	Supply delivery of 150 mm dia pressure gauge for delivery of Submersible pump sets with red marking G.M cock and copper impulse tube etc., The maximum rating should be 1.5 times the shut off head of the pump etc., complete and as directed by TWAD Board Officers		Sets	Special Specification	1 Set (One Set)	6399.00	Rupees Six thousand three hundred and ninety nine only	19197.00

Item No	Description of Work	Probable C	uantity	TNBP No. & Other Specification	Unit (Both in words and figures)		Rates in	Amount in figures
		Qty	Unit	-		Figures	Words	
1	2	3		4	5	6	7	8
5	Supply and delivery of 6 Sqmm PVC insulated sheathed 3 core flat type copper cable conforming to IS 694 / 1990 with ISI marking of the reputed make for the submersible pumpset erected in the Bore well etc., complete and as directed by the TWAD BOARD officers.		М	IS 694 / 1990 and as ammended from time to time	1 M (one metre)	217.00	Rupees Two hundred and seventeen only	8680.00
6	Laying of 6 Sqmm PVC insulated sheathed 3 core flat type copper cable for the submersible pumpset from Sump to Starter below GL including earth work excavtion and refilling the trench after the cable laid, proper anchoring etc., complete		М	Special Specification	1 M (one metre)	144.00	Rupees One hundred and forty four only	5760.00
7	Jointing of 6 Sqmm PVC insulated sheathed 3 core flat type copper cable for the submersible pumpset including Jointing materials and labour etc., complete	24	Nos	IS 694 / 1990 and as ammended from time to time	1No (One Number)	235.00	Rupees Two hundred and thirty five only	5640.00
8	Supply and delivery of 25 Sq.mm 3.5 core 1.1 KV grade Armoured Aluminium conductor cross linked poly ethylene insulated PVC Sheathed cable conforming to IS 7098(Part I)1988 with ISI marking of the reputed make for the submersible pumpset erected between EB Pole to Panel Board etc., complete and as directed by the TWAD Board officers.		М	IS 7098(Part I)1988with ISI marking & as ammended from time to time and as per IE Rules	1 M (one metre)	267.75	Rupees Two hundred and sixty seven and paise seventy five only	8032.50
9	Laying of 25 Sq.mm 3.5 core 1.1 KV grade Armoured Aluminium conductor cross linked poly ethylene insulated PVC Sheathed cable for the submersible pumpset between the TNEB supply point and MV switch board inside the pump room or in Air including earth work excavtion and refilling the trench after the cable laid, proper anchoring etc., complete		М	Special Specification	1 M (one metre)	93.50	Rupees Ninety three and paise fifty only	2805.00

Item No	Description of Work	Probable 0	Quantity	TNBP No. & Other Specification	Unit (Both in words and figures)		Rates in	Amount in figures
		Qty	Unit	Opecinication		Figures	Words	
1	2	3	_	4	5	6	7	8
	Jointing of 6 Sqmm PVC insulated sheathed 3 core flat type copper cable for the submersible pumpset including Jointing materials and labour etc., complete	8	Nos	Special Specification	1No (One Number)	280.00	Rupees Two hundred and eighty only	2240.00
	Supply and delivery of 80 mm dia Woltman model with removal Mechanism water meters confirming to ISO 4064 part I, II,III class B and also IS 779 and IS 2373 with life cycle test certificate from FCRI/NABL accredited lab. The water meters shall have magnetic drivers or mechanical drivers and shall be versatile for installation in any position . The meters shall be hydrodynamically, hydrostatically balanced. The runner, runner chamber, pointers of the meter shall be as per ISO 4064 class B specification. Dry dial excavated counter housing fully protected against flooding ensuring easy reading in all climates including cost of Dirt box and erection charges etc., complete and as directed by TWAD Board officers	1	No.	Confirming to relevant ISO 4064 Part I, II III Class -B also IS 779 and IS 2373 & special specification	1No (One Number)	19451.00	Rupees Nineteen thousand four hundred and fifty one only	19451.00
	Labour Charges for Erection of Submersible Pumpset in the borewell including fixing and jointing the submersible cable with proper clamps upto the starter to required depth and also fixing of riser pipe to the required depth valves, erection clamps,pressure gauge upto the exterior wall of the pump room and erection of panel board, consisting of TPICN switches starter, Voltmeter, Ammeter, three pilot (indicating) lamps capacitor single phasing preventor, water level guard and laying and jointing the cables and twin earthing as per IE rules etc., complete and testing the pumpset and trail run for 10 days. etc., complete and as directed by TWAD Board officers.			As per IE rules & Spl. Specification and as ammended from time to time				

Item No	Description of Work	Probable C		TNBP No. & Other Specification	Unit (Both in words and figures)		Rates in	Amount in figures
		Qty	Unit		<u> </u>	Figures	Words	
1	2	3		4	5	6	7	8
а	For 5 HP	3	Nos		1 No (One Number)	7443.44	Rupees Seven thousand four hundred and forty three and paise fourty four only	22330.32
	Supply and delivery of following GI Pipes & specials as per IS Specifications and as amended from time to time etc., complete and as directed by TWAD Board Officers.							
а	80 mm GI Pipe	15	m	1239/PART I/2004 & as amended from time to time	1 M (one metre)	575.00	Rupees Five hundred and seventy five only	8625.00
b	80 mm GI coupling (Heavy)	4	Nos		1No (One Number)	242.00	Rupees Two hundred and fourty two only	968.00
С	80 mm GI Flange set	2	Nos		1No (One Number)	98.00	Rupees Ninety eight only	196.00
d	80 mm MS Clamp set	2	Nos	IS 1239 / PART II & as amended	1No (One Number)	471.00	Rupees Four hundred and seventy one only	942.00
е	80mm GI elbow	6	Nos	from time to time	1No (One Number)	390.00	Rupees Three hundred and ninety only	2340.00
f	80 mm GI Tee (Heavy)	1	No		1No (One Number)	488.00	Rupees Four hundred and eighty eight only	488.00
g	80 mm GM Non return valve	2	No	IS BS 5154 and	1No (One Number)	2920.00	Rupees Two thousand nine hundred and twenty only	5840.00
h	80 mm G.M Gate valve	2	No	related IS Specs	1No (One Number)	4464.00	Rupees Four thousand four hundred and sixty four only	8928.00
i	80 mm GI cutting	12	Nos	Special Specification	1No (One Number)	18.99	Rupees Eighteen and paise ninety nine only	227.88
j	80 mm GI threading	24	Nos	Special Specification	1No (One Number)	41.01	Rupees Four one and paise one only	984.24

Item No	Description of Work	Probable Q		TNBP No. & Other Specification	Unit (Both in words and figures)		Rates in	Amount in figures
		Qty	Unit	•	· ,	Figures	Words	
1	2	3	1	4	5	6	7	8
	Providing pump house wiring and lighting arra							
а	Providing pump house lighting wiring using MS conduit pipes and specials with 2 runs 1.5 sq mm PVC insulated copper wire and 1 run 12 SWG GI wire for earthing for lights, 5 Amps plug points including switch box 5 Amps switch socket, celing rose and consumable suitable for pump house wiring.		Points	Special Specification	1 Point (One Point)	1113.00	Rupees One thousand one hundred and thirteen only	6678.00
b	Supply and fixing 40 W box type 1200 mm fluoracent BOX TYPE TWIN FLUORESCENT FITTING WITH COPPER CHOKE AND CONDENSOR[HPF] COMPLETE WITH ISI MARK	2	Nos	ISI Mark	1No (One Number)	718.00	Rupees Seven hundred and eighteen only	1436.00
	Supply and Fixing of 100 W bulk head water proof light fitting sets.	1	Nos	ISI Mark	1No (One Number)	263.40	Rupees Two hundred and sixty three and paise fourty only	263.40
d	3 Pin Plug 20 Amps with Socket	1	Nos	ISI Mark	1No (One Number)	195.00	Rupees One hundred and ninety five only	195.00
15	Supply and delivery of safety appliances as det	ailed below						
а	1m x 1m, 6mm thick electrical quality rubber mat to be placed in front of the panel board and rubber mat to lay in front of the starters.	1	Nos	Special Specification	1No (One Number)	617.40	Rupees Six hundred and seventeen and Paise forty only	617.40
l h	Laminated Shock treatment chart in Tamil & English	1	Sets	Special Specification	1No (One Number)	588.00	Rupees Five hundred and eighty eight only	588.00
	Hand gloves tested to 11KV/22KV/ 500 V kept in wooden box and dusted with french chalk powder	2	Nos	Special Specification	1No (One Number)	564.90	Rupees Five hundred and sixty four and Paise ninety only	1129.80
l d l	First aid box with first aid medicines for electrical burns	1	Nos	Special Specification	1No (One Number)	742.35	Rupees Seven hundred and forty two and paise thirty five only	742.35
е	Rechargeable Emergency lamp (600mm lamp)	1	no	Special Specification	1No (One Number)	2951.55	Rupees Two thousand nine hundred and fifty one and paise fifty five only	2951.55

Item No	Description of Work	Probable Q	luantity	TNBP No. & Other Specification	Unit (Both in words and figures)		Rates in	Amount in figures
		Qty	Unit	Opcomodion	nguros)	Figures	Words	
1	2	3		4	5	6	7	8
	Supply, Delivery and Fixing of the following ite obtaining Service Connection from E.B.Pole.	ms for						
	63 Amps Aerial fuse unit on suitable MS plate with bolt and nuts and painting (In Set)	1	Set	ISI Mark	1 Set (One Set)	593.00	Rupees Five hundred and ninety three only	593.00
17	Supply and delivery of G.I. pipes							
а	32 mm GI pipe for EB Service	18	М	1239/PART I/2004 & as amended from time to time	1 M (one metre)	230.00	Rupees Two hundred and thirty only	4140.00
b	32mm dia GI bend	2	No	IS 1239 / PART II & as amended from time to time	1No (One Number)	69.00	Rupees Sixty nine only	138.00
С	Twin GI earthing and cable encasing	1	Nos	IE Rules and Special Specification	1 No (One Number)	12035.00	Rupees Twelve thousand thiryt five only	12035.00
d	Wall mounting type Teak wood (41x31x2.5 Cm) EB meter board with fuse carrier to accommodate the energy meter as approved by the TNEB including the cost of 100 A fuse carriers			IE Rules,ISI and Special Specification				
е	Teak wood board 41x31x2.5CM - 2 Nos	0.006355	Cum	Special Specification	1 Cum (One Cubic metre)	101921.00	Rupees one lakh one thousand nine hundred and twenty one only	647.71
f	100 Amps Porcelain fuse unit (500 V)	3	Nos	ISI Mark	1No (One Number)	325.00	Rupees Three hundred and twenty five only	975.00
	TOTAL						Rs.	286089.148

SCHEDULE-A 3

Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work

Construction of Pump Room of size 1.50 X 1.50 X2.40M

Item		Proba Quan	able	TNBP No. & Other	Unit in		Rates in	Amount in
No	-	Qty	Unit	Specification		Figures	Words	figures
1	2	3	I	4	5	6	7	8
1	Earth work excavation and depositing on bank with an initial lead of 10m and initial lift of 2m the following classification of soils for foundation including shoring, strutting wherever necessary including hand bailing out water and all other incidental charges etc., complete and as directed by TWAD Board officers.			SS 23 & SS 20 B. and Spl. Specn.				
а	In hard stiff clay, stiff black cotton hard red earth shales murams gravel stoney earth and earth mixed with small sized boulders and hard garvelly soil for foundation	6.494	m ³		1 Cum (One Cubic metre)	127.20	Rupees One hundred and twenty seven and paise twenty only	826.04
2	Levelling course with P.C.C 1:2:4 (one cement,two sand and four course aggregate) using 20 mm H.B.G stone including mixing concrete, laying, curing and compacting of concrete and as directed by the TWAD Board Officers.	1.278	m ³	SS 28,30 & Spl.Specn.	1 Cum (One Cubic metre)	3366.15	Rupees Three thousand three hundred and sixty six paise fifteen only	4301.94
3	Refilling with excavated earth (other than sand) complying with standard specifications for filling the foundations including watering & consolidation etc. complete and as directed by TWAD Board Officers.	0.676	Cum	SS 24,25 &Special Specification	1 Cum (One Cubic meter)	22.20	Rupees Twenty two paise twenty only	15.01
4	Supply and filling the foundation and basement with clear river sand in layers complying with standard specification including consolidation and watering etc., complete and as directed by TWAD Board Officers.	0.929	m ³	SS 24,25 & Spl.Specn	1 Cum (One Cubic metre)	500.71	Rupees Five hundred paise seventy one only	465.16
5	Brick work in CM 1:6 (one cement and six sand) using country bricks of size 8.75" X 4.25" X 2" including cost of all materials, labour charges, scaffolding, curing etc., complete for superstructure and as directed by TWAD Board Officers.			SS 31,31C & Spl.Specn.				

Item No	Description of Work	Proba Quan		TNBP No. & Other	Unit in		Rates in	Amount in figures
NO		Qty	Unit	Specification		Figures	Words	ligures
1	2	3		4	5	6	7	8
а	For Foundation and basement	4.232	Cum		1 Cum (One Cubic meter)	4526.16	Rupees Four thousand five hundred and twenty six and paise sixteen only	19154.71
b	For Super structure	3.398	Cum		1 Cum (One Cubic meter)	4525.96	Rupees Four thousand five hundred and twenty five and paise ninety six only	15379.21
6	Reinforced Cement concrete 1:1 1/2:3 (One cement, One and half sand, three HBG of 20mm machine crushed stone)excluding the cost of RTS grills for reinforcement, centering and shuttering, strutting but including cost of mixing, placing the concrete in position, vibrating , ramming, consolidating, finishing,curing etc complete complying with relavant standard specification and as directed by TWAD Bd. Officers For sunshade and roof slab	0.585	Cum	SS 28,30 & Spl.Specn.	1 Cum (One Cubic meter)	6020.70	Rupees Six thousand twenty and paise seventy only	3522.11
7	RCC 1:1.5:3 using 20mm HBS for sunshade 75mm thick at wall face and 50mm thick at free end, projecting 450mm from wall face moulded along with lintel including centering etc., complete.	1.20	RM	SS 28,30 & Spl.Specn.	1 RM(one Running Meter)	6061.62	Rupees Six thousand sixty one and paise sixty two only	7273.94
8	Centering for soffits of RCC members or Plane surface including shuttering, stutting to the centering and providing supports etc. for the following members using MS sheets of size 90cm x 60cm and BG 10 gauge stiffened with welded MS angle of size 25mm x 25mmx3mm laid over silver oak (country wood) joist of size 10cmx6.5cm spaced at about 90cm c/c and casuriuna props of 10 cm to 13 Cm dia spaced at 75cm c/c for various heights etc., complete and as directed by TWAD Board Officers.(The centering should be removed after the specified striping time of the concrete as per IS 456/1978)	5.348	M ²	SS 30 & Spl.Specn	1 Sqm (One Square meter)	598.00	Rupees Five hundred and ninety eight only	3198.10

Item No	Description of Work	Proba Quan		TNBP No. & Other	Unit in	Rates in		Amount in figures
NO		Qty	Unit	Specification		Figures	Words	ligules
1	2	3		4	5	6	7	8
9	Plastering with CM 1:5(one cement and five sand) 12mm thick including cost of materials, labour charges for finishing, scaffolding,curing etc., inside pumproom alround, outerwall, basement, side steps top and side sunshades etc.,complete and as directed by TWAD Board Officers.	37.841	M^2	SS 56,57 and Spl.Specn	1 Sqm (One Square metre)	145.20	Rupees One hundred and fourty five and paise twenty only	5494.51
10	Special ceiling plastering with CM 1:3 (one cement and three sand) 10 mm thick including labour charges for mixing, finishing, scaffolding, curing etc., complete and as directed by TWAD Board Officers.	4.922	M ²	SS 56,57 and Spl.Specn	1 Sqm (One Square metre)	168.54	Rupees One hundred and sixty eight and paise fifty four only	829.55
11	Floor finishing with CM 1:3(one cement and three sand) 20mm thick over PCC 1:4:8 using 40 mm HBS including cost of materials, labour charges for finishing, curing etc., complete and as directed by TWAD Board Officers.	1.930	M ²	SS 27, 28,39,39 H and Spl. Specn.	1 Sqm (One Square metre)	645.03	Rupees Six hundred and forty five and paise three only	1244.91
12	Supply and Delivery Fabrication of MS doors of size 0.90 x2.10 m fully panelled Single leaf with outer frame and shutter frame in MS angle of size 40mm x 40mm x 6 mm with MS flat 25mm x 25mm x 6mm and MS sheet of 18 gauge including ventilating arrangements using 20mm square MS rods with locking arrangements including two coats of approved enamel paint over coat of red oxide including cost of angles, plates, sheets, fabrication charges, cost of hold fast and transportation charges etc., complete and as directed by TWAD Bd. Officers.	1.00	No	Special Specification	1 No(One Number)	4114.00	Rupees Four thousand one hundred and fourteen only	4114.00

Item No	Description of Work	Proba Quan		TNBP No. & Other	Unit in		Rates in	Amount in figures
NO		Qty	Unit	Specification		Figures	Words	ligures
1	2	3		4	5	6	7	8
	Supplying, Cutting, bending, tying, fabricating & placing in position of steel rods for all RCC works including cost of steel and binding wire etc but excluding cost of centering and shuttering, strutting etc., complete. The steel should confirm to the relavant IS specification and supplied with test certificate (Fe. 415 grade as per IS specification No. 1786 / 1985 and as amended from time to time) for delivery at site of work including loading, freight, unloading, stacking, transit insurance charges, taxes, etc., complete and as directed by TWAD Bd. Officers.		Qtl	TNBP No.30 and Spl. Specn.	1 Qtl (One Quintal)	6187.50	Rupees Six thousand one hundred and eighty seven and paise fifty only	1856.25
14	Supply and fixing of RCC box type jolly of size 0.6 x 0.45 m	1.000	No	Special Specification	1No(one Number)	126.31	Rupees One hundred and twenty six paise thirty one only	
	Colour washing two coats with approved colour and quality over two coats of white washing for outside including the cost of materials, labour charges, cleaning and preparation of the surface and curing etc., complete and as directed by TWAD Board Officers.	37.841	M^2	SS 63 & Spl Spn	1 Sqm (One Square metre)	120.50	Rupees One hundred and twenty and paise fifty only	4559 84
	White washing two coats using fine screened shell lime for the new plastered surface for inside pumproom around and roof slab bottom including the cost of materials, labour charges ,scaffolding etc., complete and as directed by TWAD Board Officers.	5.462	M^2	SS 63 &Spl spn	1 Sqm (One Square metre)	19.42	Rupees Nineteen and paise fourty two only	106.07

Item No	Description of Work	Proba Quan		TNBP No. & Other	Unit in		Rates in	Amount in
		Qty	Unit	Specification		Figures	Words	liguies
1	2	3		4	5	6	7	8
	Weathering course with broken Brick Jelly of 20 mm size in pure slaked lime (no sand to be used) over RCC Roof slab with proportion being 32:12 1/2 for required depth of 80mm thickness over the roof slab as required well beaten with wooden beaters for giving required slope complying with standard specification etc., complete and Terrace Flooring with one course of flat tiles using of size 150mm x 150mm x 12mm laid in CM 1:3(one cement and three sand) mixed with crude oil to 10% by weight of cement and pointed neatly with the same oiled morter etc., complete complying with standard specification and as directed by TWAD Board Officers.	5.570	M^2	SS 30,9E and Spl.Spn	1 Sqm (One Square metre)	767.67	Rupees Seven hundred and sixty seven and paise sixy seven only	4275.92
	Painting TWAD Board Emblem and writing the slogan in accordance with the size and as per board specification with approved colour and quality of paint on the enterior surface of the Pumproom etc. Completeand as directed by TWAD Board Officers.	1.000	M^2	special specification	1 Sqm (One Square metre)	1982.78	Rupees One thousand nine hundred and eighty two paise seventy eight only	1982.78
	Refilling with excavated earth (other than sand) complying with standard specifications for filling the foundations including watering & consolidation etc. complete and as directed by TWAD Board Officers.	1.194	m³	SS 24,25 &Special Specification	1 Cum (One Cubic metre)	19.50	Rupees Nineteen and paise fifty only	23.28
	TOTAL						Rs.	78749.65

SCHEDULE- A 4 Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work

Construction of 30000 Lit -12m Staging height OHT

Item	Description of work	Probal quant	ole	TNBP No &	Units in words		Rates in	
No	Description of work	Qty	Unit	Specifications	Offics III Words	In Figures	In words	Amount
1	2	3		4	5	6	7	8
1	Earth work excavation with an initial lead of 10 metre & initial lift of 2 metre in Hard stiff clay, stiff black cotton, hard red earth shales, murrum, gravel, stoney earth, and earth mixed with small size boulders and hard gravelly soil (SS 20B) for foundation including shoring, strutting, bailing out water wherever necessary and depositing the surplus earth at places as shown by the departmental officer etc., complete and as directed by TWAD board Officers			SS 20B, 23 and Special Specifications				
а	First depth of 2M (0 M to 2.00 M) (for HSC, HRE) For Column Footing & G.L Brace	39.670	m ³		1m ³ (One cubic metre)	127.20	Rupees One hundred and twenty seven paise twenty only	5046.02
b	Second depth of 1M	4.840	m ³		1m ³ (One cubic metre)	133.40	Rupees One hundred and thirty three and paise forty only	645.66
2	Supply and Filling the foundation and basement using clean river sand in layers of 15cm thick including watering, ramming and consolidating etc., complete complying with standard specifications and as directed by the TWAD Board Officers.	1.936	m ³	SS 24, 25 and Special Specifications	1m ³ (One cubic metre)	500.71	Rupees Five hundred and paise seventy one only	969.37
3	Levelling coarse using plain cement concrete with P.C.C 1:4:8 (one cement, four sand and eigth course aggregate) using 40 mm H.B.G stone for levelling course including cost of mixing cement, placing, ramming and curing etc., complete and as directed by the TWAD Board Officers. PCC Laying beyond 1.5 m to upto 4.5 m from G.L.	2.904	m ³	SS 28 & Special Specifications	1m³ (one cubic metre)	3366.15	Rupees Three thousand three hundred and sixty six and paise fifteen only	9775.30

Item	Description of work	Probal quant		TNBP No &	Units in words		Rates in	
No	Description of work	Qty	Unit	Specifications		In Figures	In words	Amount
1	2	3		4	5	6	7	8
3	Reinforced Cement Concrete Mix M30 grade using 10mm & 20mm Hard blue granite Broken stone (machine crushed) excluding the cost of RTS rods for reinforcement and centering, strutting, shuttering, including cost of mixing, laying with mechanical vibrators, ramming, consolidating, finishing and curing etc., complete and as directed by the TWAD Board Officers.			SS 28 , 30 & Special Specifications				
Α	Below 1.5m to 4.50m from GL							
	Column footing							
	For rectangular portion & trapezoidal portion	5.653	m ³		1m ³ (one cubic metre)	4919.23	Rupees Four thousand nine hundred and nineteen and paise twenty three only	27808.41
В	For items 0 m to 1.50m below GL							
	Column & Braces at GL	1.494	m ³		1m ³ (one cubic metre)	4852.23	Rupees Four thousand eight hundred and fifty two and paise twenty three only	7249.23
С	For items 0m to 4.50m above GL							
	Column & Braces at 2.715 m from GL	2.574	m ³		1m ³ (one cubic metre)	4920.23	Rupees Four thousand nine hundred and twenty and paise twenty three only	12664.67
D	For items 4.51 m to 7.32 m above GL							
	Column , Brace at 5.58 m	1.969	m ³		1m ³ (one cubic metre)	5054.23	Rupees Five thousand fifty four and paise twenty three only	9951.78
Е	For items 7.32 m to 10.98 m above GL							
	Column , Brace at 8.445 m	2.272	m ³		1m ³ (one cubic metre)	5188.23	Rupees Five thousand one hundred and eighty eight and paise twenty three only	11787.66
F	For items above 10.98m & upto 14.64m from GL							
	For Column, beam at 11.45m,For Floor slab at 11.61 m above GL,Side wall and for haunches from 11.85m to 12.00m	11.390	m ³		1m ³ (one cubic metre)	5322.23	Rupees Five thousand three hundred and twenty two and paise twenty three only	60620.20

Item	Description of work	Probal quant		TNBP No &	Units in words		Rates in	
No	Description of work	Qty	Unit	Specifications		In Figures	In words	Amount
1	2	3		4	5	6	7	8
G	For items above 14.64 m & upto 18.30 m from GL							
	For Side wll, Roof Slab14.75M to 14.91M	3.088	m ³		1m ³ (one cubic metre)	5456.23	Rupees Five thousand four hundred and fifty six and paise twenty three only	16848.84
4	Centering for soffits of RCC members or plane surface including shuttering, strutting to the centering and providing supports etc. complete for the following members using MS sheets of size 90x60cm and 'BG' 10 gauge stiffened with welded M.S. angles of size 25x25x3mm laid over silver oak (country wood) joists of size 10 x 6.5 cm spaced at about 90mm c/c and casurina props of 10 to 13 cm dia (spaced at 75cm C/C) for various heights and as directed by the TWAD Board Officers. The centering should be removed after the specified striping time of the concrete as per IS-456/1978 etc., complete and as directed by TWAD Board Officers.			SS 30,86A and Special Specifications.				
ı	Plain Surface							
Α	Below GL							
	Column footing & For GL Brace bottom, Sides	16.820	m²		1 m ² (One Square metre)	573.00	Rupees Five hundred and seventy three only	9637.86
В	From GL to 3.30m							
	For Brace at 2.715 m bottom and sides, Bottom of Floor slab, Roof slab Bottom at 2.90 m and sides of Man hole.	51.890	m²		1 m ² (One Square metre)	573.00	Rupees Five hundred and seventy three only	29732.97
С	From 5.30m to 6.30m above GL							
	For Middle Brace 5.58 m bottom & Middle Brace sides	8.820	m ²		1 m ² (One Square metre)	648.00	Rupees Six hundred and forty eight only	5715.36
D	From 8.30 m to 9.30 m							

Item		Probal quant		TNBP No &			Rates in	
No	Description of work	Qty	Unit	Other Specifications	Units in words	In Figures	In words 7 Rupees Seven hundred and twenty three only Rupees Seven hundred and ninety eight only Rupees Eight hundred and fifty nine only Rupees Six hundred and ighty seven and Paise Sixty only Rupees Seven hundred and twelve and paise sixty only Rupees Seven hundred and thirty seven and paise sixty only Rupees Seven hundred and thirty seven and paise sixty only Rupees Seven hundred and ixty two and paise sixty only Rupees Seven hundred and eighty seven and paise sixty only Rupees Seven hundred and eighty seven and paise sixty only Rupees Eight hundred and	Amount
1	2	3		4	5	6	7	8
	For Brace at 8.445 m bottom & Brace sides	8.820	m²		1 m ² (One Square metre)	723.00	Rupees Seven hundred and twenty three only	6376.86
Е	From 11.31 m to 12.30 m				·			
	For Grid Beam Bottom at 11.45 m and Grid beam inside and Outside.	6.960	m²		1 m ² (One Square metre)	798.00	Rupees Seven hundred and ninety eight only	5554.08
F	Curved Surface - upto 0 to 3.30 m ht.							
	Side wall outer and Inner sides,Haunch (Slanting), Floor slab sides and Roof slab sides	75.940	m²		1 m ² (One Square metre)	859.00	Rupees Eight hundred and fifty nine only	65232.46
G	Square Column Below GL and upto 3.30m above GL							
а	Column 0 to 3.3m ht. above G.L and below GL	20.160	m²		1 m ² (One Square metre)	687.60	eighty seven and Paise Sixty	13862.02
b	3.31m to 4.30m ht	4.800	m²		1 m ² (One Square metre)	712.60	Rupees Seven hundred and twelve and paise sixty only	3420.48
С	4.31m to 5.30m ht	4.800	m²		1 m ² (One Square metre)	737.60	Rupees Seven hundred and thirty seven and paise sixty only	3540.48
d	5.31m to 6.30m ht	3.360	m²		1 m ² (One Square metre)	762.60	Rupees Seven hundred and sixty two and paise sixty only	2562.34
е	6.31m to 7.30m ht	4.800	m²		1 m ² (One Square metre)	787.60	Rupees Seven hundred and eighty seven and paise sixty only	3780.48
f	7.31m to 8.30m ht	4.800	m²		1 m ² (One Square metre)	812.60	Rupees Eight hundred and twelve and paise sixty only	3900.48
g	8.31m to 9.30m ht	3.360	m ²		1 m ² (One Square metre)	837.60	Rupees Eight hundred and thirty seven and paise sixty only	2814.34

Item	Description of work	Probal quant		TNBP No &	Units in words		Rates in	
No	Description of work	Qty	Unit	Specifications	Units in words	In Figures	In words	Amount
1	2	3		4	5	6	7	8
h	9.31m to 10.30m ht	4.800	m²		1 m ² (One Square metre)	862.60	Rupees Eight hundred and sixty two and paise sixty only	4140.48
i	10.31m to 11.30m ht	4.800	m²		1 m ² (One Square metre)	887.60	Rupees Eight hundred and eighty seven and paise sixty only	4260.48
j	11.31m to 12.30m ht	0.720	m²		1 m ² (One Square metre)	912.60	Rupees Nine hundred and twelve and paise sixty only	657.07
5	Painting two coats with approved cement paint over one priming coat of white cement over cement plastered wall surface and ceiling including cleaning preparing the surface and curing including cost of all materials, labour charges etc., complete (using cement paint of colour as approved by the Departmental officer) and as directed by the TWAD Board officers.	133.500	m ²	SS 56, 66A and Special Specifications	1 m ² (One Square metre)	120.50	Rupees One hundred and twenty and paise fifty only	16086.75
6	Supplying, Cutting, bending, tying, fabricating & placing in position of steel rods for all RCC works including cost of steel and binding wire etc. But excluding cost of centring and shuttering, strutting etc., completeThe steel should conform to the relevant IS specification and supplied with test certificate (Fe. 415 grade as per IS specification No. 1786 / 1985 and as amended from time to time) for delivery at site of work including loading, fright, unloading, stacking, transit insurance charges, etc. complete and as directed by TWAD Bd. Officers.	40.940	Qtl.	1786 / 1985 and as amended from time to time	1 Qtl. (One Quintal)	6187.50	Rupees Six Thousand one hundred and eighty seven and paise fifty only	253316.25

Item	Description of work	Probal quant		TNBP No &	Units in words		Rates in	
No	somm x 6mm MS angle for sides and steps in 16 nm MS plain rods fixed at 30cm C/C welded binted etc., providing with suitable side supports, clamps and locking arrangements provided with wo coats of approved enamel paint over one coat of redoxide paint, for providing access to roof top of OHT of suitable inclined length, including tottom anchorage and transportation and as directed by TWAD Board officers. The rate includes concrete bed block in CC 1:2:4 using somm HBGS at top and bottom of suitable size with necessry anchor bolts etc., complete and as directed by the TWAD Board officers.	Qty	Unit	Specifications	Units in words	In Figures	In words	Amount
1	_	3		4	5	6	7	8
7	Ladder of 45cm clear wide made out of 50mm x 50mm x 6mm MS angle for sides and steps in 16 mm MS plain rods fixed at 30cm C/C welded jointed etc., providing with suitable side supports, clamps and locking arrangements provided with two coats of approved enamel paint over one coat of redoxide paint, for providing access to roof top of OHT of suitable inclined length, including bottom anchorage and transportation and as directed by TWAD Board officers. The rate includes concrete bed block in CC 1:2:4 using 20mm HBGS at top and bottom of suitable size with necessry anchor bolts etc., complete and as directed by the TWAD Board officers.	1.00	Nos	SS 28, 86A and Special Specification.	1 No (One Number)	111227.00	Rupees One lakh elevan thousand two hundred and twenty seven only	111227.00
8	Supply, delivery and fixing of RCC inside Access ladder in RCC 1: 1.5: 3 (One Cement and Half Sand and threee HBG) using 20 mm HBG stone for OHT of size 0.15x0.15x4.56m with steps of size 0.15x0.05x0.45m at an interval of 0.3m c/c and RTS reinforcement with main rod of 8mm 4 nos. for each Hand rails and 8mm stirrups at 0.15m c/c and with main rod of 8mm 2 nos. for each step with 8mm distributer at 0.1m c/c including cost of all materials, moulding charges, all labour charges finishing curing etc complete as directed by TWAD Board officers.	1.00	No	SS 30 and Special Specification.	1 No (One Number)	3600.00	Rupees Three thousand six hundred only	3600.00
9	Providing GI arrangements for GI Ventilators, mosquito proof nylon net and as directed by TWAD Board officers	2.00	Nos	Special Specification.	1 No (One Number)	690.00	Rupees Six hundred and ninety only	1380.00

Item	Description of soul	Probal quant		TNBP No &	Halfa ta assaula		Rates in	
No	Description of work	Qty	Unit	Other Specifications	Units in words	In Figures	In words	Amount
1	2	3		4	5	6	7	8
	Supplying and fixing cut stone (rough stressed) set in CM 1:3 (one cement and three sand) of size 0.30m x 0.30m x 0.15m including cost of all materials labour charges, curing etc, complete and as directed by the TWAD Board Officers.	1.00	No	SS 35A & Spl. Specification	1 No (One Number)	170.00	Rupees One hundred and seventy only	170.00
	Supply, delivery and fixing in position of water tight CI Man Hole Frame and cover of size 0.60x0.60m over the roof slab for providing in the over head tanks RCC 1:1.5:3 with Suitable reinforcement, including cost of all materials, labour charges various capacities and as directed by the TWAD Board Officers.	1.00	Nos	IS 1726/(Part II/1974/ and IS 1726/Part VII/Section I/1974	1 No (One Number)	500.00	Rupees Five hundred only	500.00
	Labour charges for Painting TWAD Board Emblem in accordance with the size and specifications as approved by the Board on the Service Reservoirs including cost of all consumables, one coat of base paint, scaffolding charges including painting on the Service Reservoirs and as directed by the TWAD Board Officers.	3.00	m²	Special Specification.	1 m ² (One Square metre)	1982.78	Rupees One thousand nine hundred and eighty two and paise seventy eight only	5948.34
	Supply and delivery of the following sizes of PVC / GI specials confirming to IS specification at site of work including loading, transportation, unloading, insurance etc., complete and as directed by TWAD Board Officers.							
а	65mm Ø GI pipes for inlet connection	24.00	m		1 m (One Metre)	465.00	Rupees Four hundred and sixty five only	11160.00
b	65mm Ø GI pipes for over flow	24.00	m	IS1239/ part I/ 2004 and as	1 m (One Metre)	465.00	Rupees Four hundred and sixty five only	11160.00
С	50mm Ø GI pipes for scour pipe	20.00	m	amended from time to time	1 m (One Metre)	364.00	Rupees Three hundred and sixty four only	7280.00
d	65mm Ø GI pipe for delivery pipe	30.00	m		1 m (One Metre)	465.00	Rupees Four hundred and sixty five only	13950.00
е	90mm Ø PVC Threaded coupler	2	Nos.	IS 10124 / 1982 and as amended	1No (One Number)	69.00	Rupees Sixty nine only	138.00
f	75 mm Ø PVC threaded coupler	2	Nos.	form time to time.	1No (One Number)	41.00	Rupees forty one only	82.00

Item	Description of work	Proba quant		TNBP No &	Units in words		Rates in	
No	Description of work	Qty	Unit	Specifications	Onits in words	In Figures	In words	Amount
1	2	3		4	5	6	7	8
g	65mm Ø GI Tee	2	Nos.		1No (One Number)	344.00	Rupees Three hundred and fourty four only	688.00
h	65mm Ø GI 90 Bend	5	No.	IS1239/ part II and as amended from time to time	1No (One Number)	229.00	Rupees Two hundred and twenty nine only	1145.00
i	65mm Ø GI coupler	9	Nos.		1No (One Number)	197.00	Rupees One hundred and ninety seven only	1773.00
j	65mm Ø GI union	1	No.		1No (One Number)	521.00	Rupees Five hundred and twenty one only	521.00
k	65mm Ø GI Elbow	1	No.		1No (One Number)	265.00	Rupees Two hundred and sixty five only	265.00
1	65x50mm Ø GI Reducer (medium)	1	No.		1No (One Number)	108.00	Rupees One hundred and eight only	108.00
m	75mmx 63mm PVC Reducer Fabricated	1	No.		1No (One Number)	58.00	Rupees Fifty eight only	58.00
n	75mm PVC Threaded coupler	2	Nos.	IS 10124 / 1982 and as amended	1No (One Number)	41.00	Rupees Forty one only	82.00
0	90x75 PVC Reducer Fabricated	1	No.	form time to time.	1No (One Number)	82.00	Rupees Eighty two only	82.00
р	75mmx 63mm PVC Reducer Fabricated	1	No.		1No (One Number)	58.00	Rupees Fifty eight only	58.00
q	65mm Ø GM Gate valve	3	No.	IS BS 5154 and related IS	1No (One Number)	2838.00	Rupees Two thousand eight hundred and thirty eight only	8514.00
r	50mm Ø GM gate valve	2	Nos.	Specifications.	1No (One Number)	1818.00	Rupees One thousand eight hundred and eighteen only	3636.00
14	Refilling the excavated earth (other than sand) in layers of 15cm thick, watering, well rammed and consolidated etc. complete complying with standard specification and as directed by the TWAD Board Offcers.	33.000	m ³	SS 24,25 and Special Specification	1m ³ (one cubic metre)	22.20	Rupees Twenty two and paise twenty only	732.60
	TOTAL						Rs.	782216.31

SCHEDULE - A 5 Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work

Laying and Jointing of PVC / DI K7 pipes for Pumping main

Item No	Description of Work	Pro	bable antity	TNBP No. & Other	Unit (Both in words and	,	Rates in	Amount in figures
110		Qty	Unit	Specification	figures)	Figures	Words	liguics
1	2		3	4	5	6	7	8
I	CIVIL WORKS							
1	Earth work excavation and depositing on bank with initial lead of 10 m and lift of 2 M in narrow trenches having bed width 1.25m & below for laying of pipes for water supply works in the Sand, silt or other loose soil, wet sand or silt not under water light black cotton soil, sandy loam and ordinary soil.SS20B including shoring, strutting bailingout water from the tenches wherever necessary and all other incidental charges such as barricading providing danger light etc. complete and as directed by the TWAD Board Officers.			SS No.20B, 23 and Special Specification.				
а	50mm OD PVC 6KSC	362	m		1 m (One Metre)	100.17	Rupees One hundred paise seventeen only	36261.54
b	110mm OD PVC 10 KSC	300	m		1 m (One Metre)	100.17	Rupees One hundred paise seventeen only	30051.00
а	100mm dia DI K7 pipes	130	m		1 m (One Metre)	125.61	Rupees One hundred and twenty five and paise sixty one only	16329.30
2	Lowering of following PVC/DI K7 Pipes and specials carefully into the trench and laying to proper grade and alignment including labour charges, incidental and operational charges etc., complete as per standard specifications and as directed by the TWAD Board officers.			Special specification				
а	50mm OD PVC 6KSC	362	m		1 m (One Metre)	10.92	Rupees Ten and paise ninety two only	3953.04
b	110mm OD PVC 10 KSC	300	m		1 m (One Metre)	11.02	Rupees Elevan and paise two only	3306.00

Item No	Description of Work		bable antity	TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
		Qty		Specification	figures)	Figures	Words	J
1	2		3	4	5	6	7	8
С	100mm dia DI K7 pipes	130	m		1 m (One Metre)	12.44	Rupees Twelve and paise forty four only	1617.20
d	100mm GI Pipe	20	m		1 m (One Metre)	14.78	Rupees Fourteen and paise seventy eight only	295.60
е	50mm GI Pipe	6	m		1 m (One Metre)	10.99	Rupees Ten and paise ninety nine only	65.94
3	Refilling the trenchs with excavated earth (other than sand) in layers of 15 cm thick,watered well rammed and consolidated etc. complete complying with standard specification removing and spreading the surplus earth at the places shown and as directed by the TWAD Board Officers.			SS 24,25 and Special Spn.				
а	50mm OD PVC 6KSC	362	m		1 m (One Metre)	13.96	Rupees Thirteen and paise ninety six only	5053.52
b	110mm OD PVC 10 KSC	300	m		1 m (One Metre)	13.96	Rupees Thirteen and paise ninety six only	4188.00
С	100mm dia DI K7 pipes	130	m		1 m (One Metre)	17.32	Rupees Seventeen and paise thirty two only	2251.60
4	Supply and delivery of following size of unplasticised PVC rigid pipes / Specials for potable water supply with ISI marking with necessary Couplers(or) bell ended pipes as specified in ISI, the required quantity of solvent cement and having the following working pressure. The cost of pipes should include loading, Freight, transit, insurance, Incidental charges, packing, taxes and unloading, stacking at site in good condition etc., complete as directed by the TWAD Board Officers. The test weight of pipe and hydraulic pressure should be carried out before use in work.			IS 4985/2000 and as amended from time to time				

Item No	Description of Work		bable antity	TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
140		Qty		Specification	figures)	Figures	Words	ligures
1	2		3	4	5	6	7	8
а	50mm OD PVC 6KSC	362	m		1 m (One Metre)	48.50	Rupees Forty eight and paise fifty only	17557.00
b	110mm OD PVC 10 KSC	300	m		1 m (One Metre)	365.00	Rupees Three hundred and sixty five only	109500.00
5	Supply, delivery of following DI K7 Pipes as per IS specifiaction IS 8329 / 2000 and as amended from time to time including cost of loading, freight, transit, unloading and stacking them and as directed by TWAD Board Officers.			IS 8329 / 2000 and as amended from time to time				
а	100mm dia DI K7 pipes	130	m		1 m (One Metre)	1019.00	Rupees One thousand and nineteen only	132470.00
6	Supply, delivery of GI Pipes as per IS specifiaction IS 1239/ Part-I/2004 and as amended from time to time including cost of loading, freight, transit, unloading and stacking them and as directed by TWAD Board Officers.			IS 1239/ Part- I/2004 and as amended from time t				
а	100mm GI Pipe	20	m		1 m (One Metre)	820.00	Rupees Eight hundred and twenty only	16400.00
b	50mm GI Pipe	6	m		1 m (One Metre)	364.00	Rupees Three hundred and sixty four only	2184.00
7	Supply and delivery of following size of unplasticised Specials for potable water supply with ISI marking with necessary Couplers(or) bell ended pipes as specified in ISI, the required quantity of solvent cement and having the following working pressure. The cost of pipes should include loading, Freight, transit, insurance, Incidental charges, packing, taxes and unloading, stacking at site in good condition etc., complete as directed by the TWAD Board Officers. The test weight of pipe and hydraulic pressure should be carried out before use in work.			IS 10124/1982- Part-II and as amended from time to time				

Item No	Description of Work		bable intity	TNBP No. & Other	Unit (Both in words and		Rates in	Amount in figures
140		Qty	Unit	Specification	figures)	Figures	Words	ligures
1	2		3	4	5	6	7	8
а	50mm PVC Tee	1	No.		1No(One Number)	60.00	Rupees Sixty only	60.00
b	110mm PVC Tee	3	Nos.		1No(One Number)	303.00	Rupees Three hundred and three only	909.00
С	110mm PVC Unequal Tee(110 x 90 mm)	1	No.		1No(One Number)	252.00	Rupees Two hundred and fifty two only	252.00
d	50mm PVC Bend 6ksc	9	Nos.		1No(One Number)	40.00	Rupees forty only	360.00
е	110mm PVC Bend 6ksc	2	Nos.		1No(One Number)	248.00	Rupees Two hundred and forty eight only	496.00
f	50mm PVC coupler	1	No.		1No(One Number)	32.00	Rupees Thirty two only	32.00
g	110mm PVC coupler	2	Nos.		1No(One Number)	166.00	Rupees One hundred and sixty six only	332.00
h	50mm PVC Elbow	4	Nos.		1No(One Number)	53.00	Rupees Fifty three only	212.00
i	110mm PVC Elbow	5	Nos.		1No(One Number)	189.00	Rupees One hundred and eighty nine only	945.00
	Supply and delivery of following GI Pipes and specials required for pumpset erection as per IS and as amended from time to time and suitable for water supply main including loading freight, transit, unloading and stacking etc. complete excluding GST and as directed by TWAD Board Officers.							
а	100mm GI Elbow	2	Nos.		1No(One Number)	697.00	Rupees Six hundred and ninety seven only	1394.00
b	100mm GI coupling	3	Nos.	IS 1239 / Part II and as amended	1No(One Number)	484.00	Rupees Four hundred and eighty four only	1452.00
С	100mm flange set	1	No.	from time to time.	1No(One Number)	162.00	Rupees One hundred and sixty two only	162.00
d	50mm flange set	1	No.		1No(One Number)	70.00	Rupees Seventy only	70.00

Item No	Description of Work		bable antity	TNBP No. & Other	Unit (Both in words and		Rates in	
		Qty	Unit	Specification	figures)	Figures	Words	figures
1	2		3	4	5	6	7	8
е	100mm GM Gate Valve	2	Nos.	IS BS 5154 and related IS Specs	1No(One Number)	7649.00	Rupees Seven thousand six hundred and fourty nine only	15298.00
f	50mm GM Gate Valve	2	Nos.	Totaled 10 Opera	1No(One Number)	1818.00	Rupees One thousand eight hundrd and eighteen only	3636.00
g	50mm GI Elbow	2	Nos.	IS 1239 / Part II and as	1No(One Number)	148.00	Rupees One hundred and forty eight only	296.00
h	50mm GI coupling	2	Nos.	amended from time to time.	1No(One Number)	114.00	Rupees One hundred and fourteen only	228.00
i	100mm GI Pipes Cutting	4	Nos.		1No(One Number)	27.06	Rupees Twenty seven and paise six only	108.24
j	100mm GI Pipes Threading	4	Nos.	Special	1No(One Number)	54.28	Rupees Fifty four and paise twenty eight only	217.12
k	50mm GI Pipes Cutting	4	Nos.	specification	1No(One Number)	13.44	Rupees Thirteen and paise forty four only	53.76
I	50mm GI Pipes Threading	4	Nos.		1No(One Number)	27.06	Rupees Twenty seven and paise six only	108.24
9	Jointing the DI S/S pipes and specials with Socket & Spigot ends (tyton rubber joints) including cost of jointing materials such as lubricants, rubber gaskets and testing to the required pressure including conveyance of water for filling during testing, labour charges and all other incidental charges etc., complete as per standard specifications and as directed by the TWAD Board officers.							
а	100mm dia DI K7 s/s/ pipes	8	Joint	Special specification	1 Joint (One Joint)	49.55	Rupees Fourty nine and paise fifty five only	396.40

Item No	Description of Work	Probable Quantity		TNBP No. & Other Specification	Unit (Both in words and figures)		Amount in	
NO			Unit			Figures	Words	figures 8
1	2	3		4	5	6	7	
10	Testing of 250mm dia DI/CI pipes with hydraulic testing equipment by filling with water (including cost of water @ Rs. 60/KL) and testing to recommended pressure in convenient stretches and attending the bursts if any occured during the test, excluding the cost of pipes but including other incidential and operational charges etc., complete etc complete and as directed by TWAD Board officers.							
а	110mm OD PVC 10 KSC	300	m	Special specification	1 m (One Metre)	47.02	Rupees Fourty seven and paise two only	14106.00
11	Supply delivery of 100 mm dia CI D/F sluice valves with cap / wheel of class PN-1 along with specials with non raising high tensile brass spindle valve operating in anti clock direction as per IS NO 14846/2000 including cost of pipes and specials and as amended from time to time and suitable for water supply main including duties, loading freight, transit, unloading and stacking them at site etc. complete and as directed by TWAD Board Officers.	1	No	IS 14846 / 2000 PN-1 with ISI marking and as amended from time to time.		13132.00	Rupees Thirteen thousand one hundred and thirty two only	13132.00

Item No	Description of Work	Probable Quantity		TNBP No. & Other Specification	Unit (Both in words and figures)		Amount in figures	
140			Unit			Figures	Words	ligures
1	2		3	4 5 6 7		7	8	
	Construction of masonry valve pit of size 1200mm x 750 mm for fixing of 100 mm Sluice valve as per type design No.9/43. The foundation will be in PCC 1:4:8 and brick work in C:M 1:5 Plastering in cm 1:3 12mm thick and the pit provided with 100mm thick RCC 1:11/2:3cover slab. The rate should include earth work excavation in various soils met with at the site of work, refilling the pit after the construction of pit, cost of levelling course, brick work, plastering, cut stone RCC cover slab, cost of reinforcemet, fabrication charges and fixing the valves in position inside the pit, laying and jointing of CI pipes and specials etc., complete. The Jointing materials such as bolts nut washers, rubber insertion sheets white lead have to be procured and utilised by the contractor at his own cost etc., complete and as directed by the TWAD Board officers.	1	No	SS No. 20B, 23, 24, 28, 30, 32 C , 36, 66, 106 and special specification.	1 No	10800.00	Rupees Ten thousand and eight hundred only	10800.00
	TOTAL						Rs.	446539.50

SCHEDULE- A6

Additional works for providing 0.80LLD water supply to IVPM,Ranipet in Vellore District, under the Industrial Provision of Package - III of Vellore CWSS as Deposit work

MAINTENANCE OF THE SCHEME

	Description of work			TNBP No. Other specification	Unit (Both in words and figures)	Rates in		
Item No			Probable Quantity			Figures	Words	Amount in figures
1	2		3	4	5	6	7	8
1	Maintenance of the project for the specified period by necessary maintenance crew with supervisory staff and keeping necessary specials required for Pumping main /Connecting main/Pump room / Pumpsets etc. readily available to ensure uninterrupted water supply to the beneficiary including all cost towards spares, consumables, chemicals, repairs and renewal excluding cost of electrical energy payable to TNEB during maintenance period which can be got reimbursed by the Employer etc complete as directed by TWAD Board officers	3	Months	Special Specification.	1Month (One month)	0.00	Rupees Nil Only.	0.00
	Total						Rs.	0.00