

**HIMACHAL PRADESH
PUBLIC WORKS DEPARTMENT**

*** Notice Inviting Tender ***

Sealed item rate tender on form No. 6 & 8 are hereby invited by the Executive Engineer, HP PWD Division Tanda at Nagrota Bagwan on behalf of Governor of Himachal Pradesh for the following work from the approved and eligible contractors enlisted in HP PWD (B & R) whose registration stood renewed as per revised rules so as to reach in his office on or before on **13.09.2022** up to **11:00 A.M.** And the same shall be opened on the same day at **11:30 A.M.** in the presence of intending contractors or their authorized representatives. The tender form can be obtained from his office on cash payment (non refundable) on **12.09.2022** up to **4:00 P.M** and the application for issue of tender form shall be received on **09.09.2022** up to **12:00** noon. The applications for issue of tender forms accompanied with enlistment letter or renewal letter and the earnest money in the shape of National Saving Certificates/Saving Account of the Post Office /Time Deposit account/FDR in Himachal Pradesh duly pledged in favour of Executive Engineer, HP PWD Division Tanda at Nagrota Bagwan.

The conditional tender and the tender received without earnest money will summarily be rejected. The offer of the tender shall be kept open for 120 days.

Sr. No.	Name of work	Estimated Cost	Earnest Money	Time limit
1	Restoration of rain damages on Massal to Sakra Basti road in Distt Kangra (HP) (SH:-Providing Granular filling in Km 0/240 to 0/400).	277200/-	5550/-	One month
2	Construction of Brana Nehar Palachakaloo road Km 0/000 to 8/000 in Distt Kangra (HP) (Deposit work) (SH :-Balance work of 12.00 mtrs span Nehar khad bridge abutment).	499967/-	10000/-	Three months
3.	Restoration of ain damages on Yol Rajiana road (Yol 53 Mile) Km 0/000 to 10/555 in Distt Kangra (HP) (SH:-Construction of U-shape drain in between Km 0/750 to 0/900).	182450/-	3650/-	Two months
4.	Restoration of rain damages in link road from Mundla to Tikka Dhar to link village Lilly and Amtrar Km 2/900 to 5/660 in Distt Kangra (HP) (SH:-Construction of retaining wall at RD 3/350 to 3/370).	466163/-	9350/-	Three months
5.	Construction of Barana Mariyari Nehar Palahchakaloo road Km 0/000 to 8/000 in Distt Kangra (HP) (SH:-Deposit work) (SH:-Balance work of 12.00 mtrs span Nehar Khad bridge abutment).	496241/-	9950/-	Three months
6.	Special repair to 500 Bedded Hospital at Dr R.P. Govt. Medical College Tand ain Distt Kangra (HP) (SH:-Providing and fixing aluminium work prelaminate board and glass panes etc; in blood Bank)	499776/-	10000/-	Three months
7	Construction of OBC/Tidu Ram Baidh Bhawan in G.P. Danoa Tehsil Baroh in Distt Kangra (HP) (SH:-Balance work of building portion including water supply & sanitary installation etc; (Deposit work).	465884/-	9350/-	Three months
8.	Special repair to 500 Bedded Hospital in Dr RPGMC at tanda in Distt Kangra (HP) (SH:-Dismantling tile flooring P/L white glazed tiles painting & WS & SI work back side of Ent Ward) Part -II	499585/-	10000/-	Three months
9.	Construction of Toilet block in govt. Sen Sec School Aerla Tehsil Baroh Distt Kangra (HP) (SH:-Construction of Civil work including water supply and sanitary installations).	294008/-	5900/-	Three months
10.	Construction of Culvert to the House of Sandeep Singh and other in village Bhadrer in Tehsil Nagrota Bagwan in Distt Kangra (HP) (SH:-Construction of Culvert alongwith approaches (deposit work)	485350/-	9750/-	Three months
11.	Construction of Busal Nariyalkar Sipanpat road Km 0/000 to 4/525 in Distt Kangra (HP) (SH:-Construction of Breast wall at RD 1/088 to 1/100, C/O Retaining wall at RD 1/430 to 1/449 and C/o road side parapets at various RD's)	498749/-	10000/-	Three months

12	Construction of Gau Sadan at Nagrota Bagwan in Distt Kangra (HP) (SH:-Balance work of retaining wall and drain etc;)	494465/-	10000/-	Three months
13.	Restoration of rain damages on Kawari Ranhun road in Distt Kangra (HP) (SH:-Construction of retaining wall at RD 1/800 to 1/810).	286770/-	5750/-	Three months
14.	Construction of Gheena to Lihar Lahari road Km 0/000 to 6/000 in Distt Kangra (HP) (SH:-Construction of Edge walls providing and laying cement concrete pavement at various RD's between Km 0/000 to 6/000).	499558/-	10000/-	Three months
15	Restoration of rain damages on Kangra Tanda Sadarpur road Km 0/000 to 6/000 in Distt Kangra (HP) (SH:-Construction of Ushape drain in Km 1/800 to 2/125).	396667/-	7950/-	Two months
16	Special repair to various Hostel at Dr R.P. Govt. Medical College Tanda in Distt Kangra (HP) (SH:-Providing and fixing water supply and sanitary installation etc;)	499792/-	10000/-	Three months

Terms & Conditions:-

1. The contractor/firm should be registered as or dealer GST No.
2. The intending contractor / firm have to produce the copy of latest enlistment and renewal enlisted in HPPWD.
3. If any of the date mentioned above happened to be Gazetted Holidays the same shall be processed on next working day.
4. The Executive Engineer reserves the right to accept/reject any tender/application or all tenders without assigning any reason.
5. The Contractor will have to submit affidavit along with application for issue of tender that he has not more than two works in hand.
6. Next tender will be issued only after completion of previous works in hand.

HIMSUCHANA AVAM & JAN SAMPARK

(On behalf of Governor of Himachal Pradesh)

No.PW/NBD/TA/Tender/NIT/2022/ 8514-43

Executive Engineer
H.P.P.W.D. Tanda Division
at Nagrota Bagwan

Dated/ 30/8/2022

Copy to the following for information and necessary action:-

1. The Principal Secy. (PW) to the Govt. of H.P. Shimla.
2. The Engineer-in-Chief, HPPWD, Shimla.
3. The Chief Engineer (KZ), HPPWD, Dharamshala.
4. The Director, Information & Publications Department, H.P. Shimla
5. The Superintending Engineer, 5th Circle, HPPWD, Palampur.
6. The Principal, Dr. RPGMC, Tanda.
7. The Deputy Commissioner, Kangra at Dharamshala.
8. All the S.E.s/E.E.s under North Zone.
9. The Sub-Divisional Officer(C) Nagrota Bagwan.
10. The Block Development Office Nagrota Bagwan
11. All the Assistant Engineer under this Division.
12. The Drawing /Accounts Branch in this office.
13. The Contractors concerned.
14. Notice Board.

Executive Engineer
H.P.P.W.D. Tanda Division
at Nagrota Bagwan

SCHEDULE OF QUANTITY

ESTIMATED COST: - Rs. 277200.00
 EARNEST MONEY: - Rs. 5550.00
 TIME LIMIT : ONE MONTH

NAME OF WORK :- Restoration of rain damages on Massal to Sakra Basti road in Dist. Kangra (H.P.).
SUB-HEAD :- Providing granular filling in Km 0/240 to 0/400

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	2	3	4	5	6	7
1	Construction of embankment with approved materials obtained from borrow pits with a lift upto 1.5m (One point five meters) transport to sill spreading grading to required slope and compacted to meet requirement of Tables 300.1 and 300.2 with a lead upto 1000m (One thousand meters) as per Technical Specification Clause 301.5, as directed, within any lead including entire carriage of materials within all leads, lifts and other incidentals.	1260.00 Cubic metres			Per cubic metre	
TOTAL:-						

Executive Engineer,
 H.P.W.D., Division,
 Tanda at Nagroli Bagwan.

Schedule of Quantity

ESTIMATED COST: - Rs. 499967.00
 EARNEST MONEY: - Rs. 10000.00
 TIME LIMIT : THREE MONTHS

NAME OF WORK :- Construction of Barana Mariyari Nehar Palahchakaloo road Km 0/000 to 8/000 in Dist. Kangra (H.P.). Deposit work.

SUB HEAD :- Balance work of 12.00 mtrs span Nehar Khad bridge abutment.

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	1	3	4	5	6	7
1	Providing and laying concrete for plain reinforcement concrete in open foundation complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 PCC Grade (M-20) (M-twenty) nominal mix 1:2:4 (One cement: Two sand: Four graded/crushed stone aggregate) including the cost of centering, shuttering/finishing and reinforcement complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	84.00 Cubic meters			Per cubic metre	
2	2	281.67			Per kilo gram	
2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	Kilogram				
3	3	28			Each	
3	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	Numbers				
TOTAL :-						

Executive Engineer,
 HP PWD Division,
 Tanda at MBagwan.

Schedule of Quantity

ESTIMATED COST :- Rs. 182450.00
 EARNEST MONEY :- Rs. 3650.00
 TIME LIMIT : TWO MONTHS

NAME OF WORK :- Restoration of rain damages on Yol Rajiana road (Yol 53 Mile) Km 0/000 to 10/555 in Distt. Kangra (H.P.).
SUB HEAD :- Construction of U-shape drain in between Km 0/750 to 0/900

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	1	3	4	5	6	7
1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto any lead, dressing of sides and bottom and backfilling in trenches with excavated suitable material complete as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	78.38 Cubic meters			Per cubic metre	
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering. Plain cement concrete 1:3:6 (One Cement : Three coarse sand : Ten graded stone aggregate 20 mm (Twenty millimetres) nominal size complete as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	29.44 Cubic metres			Per cubic metre	
TOTAL :-						

Executive Engineer,
 H.P.P.W.D., Division,
 Tanda at Nagrota Bagwan.

Schedule of Quantity

ESTIMATED COST: - Rs. 466163.00
EARNEST MONEY: - Rs. 9350.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Restoration of rain damages on link road from Mundla to tikka Dhar to link village Lilly and Amtrar Km 2/900 to 5/660 in Distt. Kangra (H.P.).
SUB HEAD :- Construction of Retaining wall at RD 3/350 to 3/370

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m (One point five metre) in width or 10 sqm (Ten square metre) on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m (One point five metre), including getting out the excavated soil and disposal of surplus excavated soils as directed, within any lead including entire carriage of materials within all leads, lifts and other incidentals.	38.51 Cubic meters			Per cubic metre	
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:5:10 (One cement : Five coarse sand : Ten graded stone aggregate 40 mm (Forty millimetres nominal size) as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	87.92 Cubic metres			Per cubic metre	
3	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	48.37 Running metres			Per running metre	
4	Backfilling behind abutment, wing wall and return wall complete as per drawings and technical specification Clause 1204.3.8, granular material complete as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	18.78 Cubic metres			Per cubic metre	
5	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:4:8 (One Cement : Four coarse sand) : Eight graded stone aggregate 40 mm (Forty millimetres) nominal size as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	27.00 Cubic metres			Per cubic metre	
TOTAL :-						

Executive Engineer,
H.P.P. W.D., Division,
Tanda at Nagroa Bagwan

Schedule of Quantity

ESTIMATED COST:- Rs. 496241.00
EARNEST MONEY :- Rs. 9950.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Construction of Barara Maryari Nehar Palahchakaloo road Km 0/000 to 8/000 in Distt. Kangra (H.P.). Deposit work.
SUB HEAD :- Balance work of 12.00 mtrs span Nehar Khad bridge abutment.

S. No.	Description of Items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	2	3	4	5	6	7
1	Providing and laying concrete for plain reinforcement concrete in open foundation complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 PCC Grade (M-20) (M-twenty) nominal mix 1:2:4 (One cement: Two sand: Four graded/crushed stone aggregate) including the cost of centering, shuttering/finishing and reinforcement complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	84.00 Cubic meters			Per cubic metre	
2	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	293.41 Kilogram			Per kilo gram	
3	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	14 Numbers			Each	
TOTAL :-						

Executive Engineer,
HP PWD Division,
Tanda at Nagpha Bagwan.

SCHEDULE OF QUANTITY

ESTIMATED COST :- ₹ 499776.00
EARNEST MONEY :- ₹ 10000.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Special Repair to 500 Bedded Hospital at Dr. R.P. Govt. Medical College Tanda in Dist. Kangra (H.P.)

SUB-HEAD :- Providing and fixing aluminium work, pre-laminated board and glass panes etc. in Blood Bank.

S. No.	Description of Items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	Providing and fixing anodised /colour coated aluminium work for door, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285 anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15) fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rustfree, straight, miltred and jointed mechanically where ever required including cleast angle, aluminium, snap beading for glazing/ panelling C.P. brass/stainless steel screws for doors windows and ventilators and glazed partitions frames. All complete as per architectural drawings and as directed by the Engineer- In-charge, including carriage of materials within all leads, lifts and other incidentals.	3 683.78 Kilograms	4	5	6 Per kilo-gram	7
2	Providing and fixing anodised / colour coated aluminium work for door, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285 anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15) fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rustfree, straight, miltred and jointed mechanically where ever required including cleast angle, aluminium, snap beading for glazing/ panelling C.P. brass/stainless steel screws for shutters of doors windows & ventilators including providing and fixing hinges/pivots and making provisions for fixing of fittings where ever required including the cost of PVC/neoprene gaskets as required (fittings and glazing/panelling shall be paid for separately) all complete as per architectural drawings and as directed by the Engineer- In-charge, including carriage of materials within all leads, lifts and other incidentals	10.00 Kilograms			Per kilo-gram	
3	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with EPDM rubber / neoprene gasket etc. complete as per the architectural drawings and the directions of engineer-in-charge. (Cost of aluminium snap beading shall be paid in basic item). With float glass panes of 5.5 mm (Fiv epoint five millimetre) thickness (weight not less than 12.50 kg/ sqm) complete as directed by the Engineer-in-charge including entire carriage of materials within all leads, lifts and other incidentals.	21.46 Square metres			Per square metre	
4	Providing and fixing anodized aluminium sliding door bolts anodized transparent or dyed to required colour and shade with necessary screws etc. completed including entire carriage of materials within all leads, lifts and other incidentals	10 Numbers			Each	
i)	300x10 mm size (Three hundred into ten millimetres)nominal size	12 Numbers			Each	
ii)	250x10 mm(Two hundred fifty into ten millimetres) nominal size					
5	Providing and fixing 300x10mm (Three hundred into ten millimetres) aluminium tower bolts (berrel type) anodized trans parent or dyed to required shade and colour with screws etc. complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	28.00 Numbers			Each	
i	200x10mm mm size (Two hundred into ten millimetres)nominal size	22.00 Numbers			Each	
ii	250x10mm mm size (two hundred fifty into ten millimetres)nominal size				Each	

6	Providing and fixing aluminium handles anodized transparent or dyed to required colour & shade with necessary screws etc. complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.				
	i) 125mm (One hundred twenty five millimetres)	35 Numbers		Each	
	ii) 100mm (One hundred millimetres)	32 Numbers		Each	
7	Providing and fixing 100mm (One hundred millimetres) bright finished brass floor door stopper with rubber cushion screws etc. to suit shutter thickness complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	3.00 Numbers		Each	
8	Providing and fixing 150 mm (One hundred fifty M.S. double acting spring hinges bright finished with necessary screws etc. complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	2.00 Numbers		Each	
9	Providing and fixing 12mm (Twelve millimetres) thick pre-laminated particle board flat pressed three layer or graded wood particle board conforming to IS: 12823 Grade I Type II, in panelling fixed in aluminum doors, windows shutters and partition frames with C.P. brass / stainless steel screws etc. complete as per architectural drawings and directions of engineer- in-charge. Pre-laminated particle board with decorative lamination on both sides complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	19.40 Square metres		Per square metre	
10	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 (Seven point five) in superstructure above plinth level up to floor V level. Cement mortar 1:4 (1 cement :4 coarse sand) complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	13.10 Square metres		Per square metre	
11	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:2:4 (1 cement : 2 coarse sand) : 4 Graded stone aggregate 20 mm (Twenty millimetres) nominal size) complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	1.50 Cubic metre		Per cubic meters	
12	15 mm (fifteen millimetres) cement plaster on rough side of single or half brick wall finished with a floating coat of neat cement of mix : 1:4 (1 cement: 4 fine sand) complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	26.20 Square metres		Per square metre	
13	Providing and laying 15 to 20mm (Fifteen to Twenty millimeters) thick granite stone in flooring 20mm (Twenty millimeters) (average) thickness base of cement mortar 1:3 (One cement : Three sand) laid over and jointed with grey cement slurry mixed with pigment to match the shade of granite stone including rubbing, polishing and moulding in single or double layer complete as per direction Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	13.50 Square metres		Per square meter	
TOTAL :-					

Executive Engineer,
H.P.W.D., Division,
Tanda at Nagroa Bagwail.

Schedule of Quantity

ESTIMATED COST:- Rs. 465884.00
EARNEST MONEY :- Rs. 9350.00
TIME LIMIT : THREE MONTHS

NAME OF Construction of OBC / Tidu Ram Baidh Bhawan in G.P. Danao, Teh. Baroh in Distt. Kangra (H.P.)

SUB HEAD:- Balance work of building portion including Water Supply & Sanitary installations etc; DEPOSIT WORK

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	2	3	4	5	6	7
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 Square metres on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. for Ordinary rock as per HPPWD technical specification and as directed by the Engineer-In-Charge including carriage of materials within all leads and lifts and other incidentals.	49.01 Cubic metres			Per cubic metre	
2	Providing and laying cement concrete 1:4:8 (1 cement:4 sand:8graded stone aggregate 40mm nominal size) including cost of centring and shuttering in foundations and plinth as per HPPWD technical specification and as directed by the Engineer-In-Charge including carriage of materials within all leads and lifts and other incidentals.	2.60 Cubic metres			Per cubic metre	
3	Boulder filling dry hand packed tightly under floor complete as per HPPWD technical specification and as directed by the Engineer-In-Charge including carriage of materials within all leads and lifts and other incidentals.	1.74 Cubic metres			Per cubic metre	
4	Coursed rubble masonry (first sort) with hard stone in foundation and plinth in cement mortar 1:6 (one cement isto six sand) and curing complete as per approved drawing, design and specifications and as per directions and entire satisfaction of the Engineer-in-Charge including carriage of material within all leads, lifts and other incidentals.	11.78 Cubic metres			Per cubic metre	
5	Providing form work with steel plates 3.15mm thick welded with angle iron frame 30x30x5mm Size so as to give a fair finish including centering, shuttering, strutting and propping etcetera with wooden battens and ballies, height of propping and centering below supporting floor to ceiling upto all height and removal of the same for in-situ reinforced concrete and plain concrete work in Flat surfaces such as soffits of suspended floors, roofs, landing and the like. upto 200mm in thickness. as per HPPWD technical specification and as directed by the Engineer-In-Charge including carriage of materials within all leads and lifts and other incidentals.	14.00 Square metre			Per square metre	

6	Providing form work with steel plates 3.15mm thick welded with angle iron frame 30x30x5mm Size so as to give a fair finish including centering, shuttering, strutting and propping etcetera with wooden battens and ballies, height of propping and centering below supporting floor to ceiling upto all height and removal of the same for in-situ reinforced concrete and plain concrete work in Beam cantilever girders and lintels side and soffits of beam haunching, cantilevers girders bressumers lintels not exceeding 1 metre depth in all heights from floor as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	4.33 Square metres			Per square metre	
7	Providing form work with steel plates 3.15mm thick welded with angle iron frame 30x30x5mm Size so as to give a fair finish including centering, shuttering, strutting and propping etcetera with wooden battens and ballies, height of propping and centering below supporting floor to ceiling upto all height and removal of the same for in-situ reinforced concrete and plain concrete work in Edges of slab and breaks in floors and walls, under 20cm. wide as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	15.00 Running metres			Per running metre	
8	Providing and laying in position machine batched and machine mixed design mix M-20 grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, Cement content considered in this item is @320 kg/Cubic metres. All works above plinth level upto floor all level including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1.88 Cubic metres			Per cubic metre	
9	15mm thick cement plasters in single coat on rough side of brick/concrete/stone walls for interior plastering upto all floor level including aises, internal rounded angles, chamfers and or rounded angles not exceeding 80mm in girth and finished even and smooth with cement mortar 1:6 (1 cement: 6 sand) upto floor two level as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	23.60 Square metres			Per square metre	
10	Providing Tor steel reinforcement for Reinforced Cement Concrete work including bending, binding and placing in position complete including cost of binding wires complete and other incidentals due for its completion upto plinth level to floor five level as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	188.00 Kilogram			Per kilogram	

1/	Brick work using Second class common burnt clay buildings bricks in super-structure above plinth level upto all floor level in cement mortar 1:6 (one cement isto six sand) and curing complete as per approved drawing, design and specifications and as per directions and entire satisfaction of the Engineer-in-Charge including carriage of material within all leads, lifts and other incidentals.	1.35	Cubic metres				Per cubic metre	
12	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in super structure above plinth level in : cement mortar 1:4 (1 cement : 4 coarse sand) as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	39.14	Square metres				Per square metre	
13	Steel work welded in built up sections in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works complete and applying a coat of approved steel primer after pretreatment of the surface as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	64.00	Kilogram				Per kilogram	
14	Providing and fixing Panelled or panelled and glazed shutters for doors, windows and clerestory windows including black enamelled iron butt hinges with necessary screws, 40mm thick local wood like marindi etc; as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	27.35	Square metres				Per square metre	
15	Providing and fixing wire gauge shutters using galvanised M.S. wire gauge of I.S. gauge designation 85 G. with cire of dai 0.56 mm for doors windows and clerestory windows including bright finished black enamelled iron hinges with necessary screws. 35mm thick. local wood like marindi etc; as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals	25.65	Square metres				Per square metre	
16	Providing and fixing aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc. complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.							
i)	300x16mm size	1	Numbers				Each	
ii)	250x16mm size	3	Numbers				Each	

17	Providing and fixing aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.					
i)	150x10mm size	16 Numbers			Each	
ii)	100x10mm size	108 Numbers			Each	
18	Providing and fixing 100 mm size aluminium handles , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. Complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	16 Numbers			Each	
19	Providing and fixing oxidized 200mm size hooks and eyes complete in all respect as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	32 Numbers			Each	
20	Providing and fixing M.S. grills of required pattern in frames of windows etc. with M.S. flats, square or round bars etc. including priming coat with approved steel primer all complete. Fixed to steel windows by welding complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	398.72 Kg			P/Kg	
20	Providing and fixing aluminium hanging floor door stopper, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade, with necessary screws etc. complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	5 Numbers			Each	
22	Applying priming coat With ready mixed pink or grey of approved brand and manufacture on wood work complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	57.90 Square metres			Per square metre	

23	Painting Wood work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 Square metres over an under coat of primer applied @ 0.75 ltr/10 Square metres of approved brand and manufacture complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	57.90	Square metres			Per square metre	
24	Applying priming coat With ready mixed red oxide zinc chromate primer of approved brand and manufacture on steel galvanised iron/ steel works complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	35.84	Square metres			Per square metre	
25	Painting Steel work with Deluxe Multi Surface Paint to give an even shade. Two or more coat applied @ 0.90 ltr/ 10 Square metres over an under coat of primer applied @ 0.80 ltr/ 10 Square metres of approved brand and manufacture complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	35.84	Square metres			Per square metre	
26	15mm thick cement plasters in single coat on fair side of brick/concrete/stone walls for exterior plastering upto all floor level including arises, internal rounded angles, chamfers and or rounded angles not exceeding 80mm in girth and finished even and smooth with cement mortar 1:4 (1 cement: 4 sand) complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	39.07	Square metres			Per square metre	
27	Finishing walls with 100% Premium/washable acrylic emulsion paint (Two or more coats applied @ 1.43 litre/ 10 Square metres. Over and including priming coat of interior primer applied @ 0.90 litre/10 Square metres having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance interior paint of required shade (Company Depot Tinted) with silicon additives all complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	365.18	Square metres			Per square metre	
28	Providing and fixing Stainless Steel A ISI 304 (18/8) kitchen sink as per IS:13983 with C.I. brackets and stainless steel plug 40 mm, including painting of fittings and brackets, cutting and making good the walls wherever required 610x510 mm bowl depth 200 complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1	No.			Each	

29	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 No.			Each	
30	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 Number			Each	
31	Providing and fixing 100mm diametres C.P. grating (Heavy duty makes ISI marked is No. 8931 & 8934) for gully floor or Nahni trap complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
32	Providing and fixing 100mm nominal size/diameter P.V.C. floor trap including filling the joints with adhesive mixture complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
33	Providing and fixing 32mm diameters P.V.C. waste pipe for wash basin or sink including brass check nut complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
34	Providing and fixing 32mm nominal size diameters rubber plug for wash basin (Heavy duty makes ISI marked is No. 8931 7893) including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
35	Providing and fixing 15mm nominal bore brass full way valve with wheel including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
36	Providing and placing water tank make P.V.C. SINTEX having capacity of 500 liters each tank necessary fittings including over flow pipe scour pipe etc and pads required for in let and out let and inside painting ball valve with cover and locking arrangements including painting of good quality complete in all respect including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 No.			Each	

37 Providing and fixing G.I. pipes complete with G.I. Fittings and clamps i/c cutting and making good the walls etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	18		Per running metre	
i) 20mm nominal bore/ dia	Running metres		Per running metre	
ii) 15mm nominal bore/ dia	18 Running metres		Per running metre	
38 Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes, including filling the joints with approved adhesive including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.				
i) 110mm dia	12 Running metres		Per running metre	
ii) 75mm dia	12 Running metres		Per running metre	
39 Providing and fixing on wall face C.I. accessories for Rain water pipes including filling the joints with approved adhesive including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.				
i) 110mm dia PVC. Plain bend	3 Numbers		Each	
ii) 75mm dia PVC. Plain bend	3 Numbers		Each	

40	Providing and fixing PVC collors, ISI marked including fixing with approved adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.					
i)	110mm dia	3 Numbers			Each	
ii)	75mm dia	3 Numbers			Each	
41	Providing and fixing GI/ML union of following sizes including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.					
i)	20mm nominal bore/ dia	4 Numbers			Each	
ii)	15mm nominal bore/ dia	3 Numbers			Each	
42	Providing and fixing PVC cowl 75mm dia ISI marked including fixing with adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 No.			Each	
43	Providing and fixing CP Brass pillar tap with capstan head 15mm dia including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 No.			Each	
44	Providing and fixing 15mm diameters brass angle valve without nuts as per approved drawing and design including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 No.			Each	
45	Providing and fixing Main hole cover with frame (medium duty) cast iron for frame including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 No.			Each	
TOTAL :-						

Executive Engineer,
HPPWD Division,
Tanda at Nagla Bagwan.

SCHEDULE OF QUANTITY

ESTIMATED COST:- R5. 499585.00
EARNEST MONEY:- R5. 10000.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Special repair to 500 Bedded Hospital in Dr RPGMC at Tanda in Dist Kangra (HP)

SUB-HEAD :- Dismantling tile flooring P/L while glazed tiles painting & WS & SI work Back side of ENT ward) Part II

S. No.	Description of Items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	2	3	4	5	6	7
1	Dismantling tiled floors laid in mortar upto floor two level including stacking of serviceable materials and disposal of un-serviceable materials within 20 metres lead (wooden/concrete joists to be measured and paid for separately) Stone slab/lagged floors complete as per direction of Engineer-In-Charge, including carriage of material within all leads, lifts and other incidentals.	62.12 Square metres			Per square metre	
2	Dismantling tiled floors laid in mortar upto floor two level including stacking of serviceable materials and disposal of un-serviceable materials within 20m (Twenty meters) lead (wooden/concrete joists to be measured and paid for separately) for thickness of tiles above 25mm (Twenty five millimeters) and upto 40mm (Forty millimeters) complete as per direction of Engineer-In-Charge, including carriage of material within all leads, lifts and other incidentals.	85.35 Square metres			Per square metre	
3	Demolition of brick work above G.L. upto floor two level including stacking of serviceable materials and disposal of un-serviceable materials within 20 metres lead in cement mortar complete as per direction of Engineer-In-Charge, including entire carriage of materials within all leads, lifts and other incidentals.	7.25 Cubic metres			Per Cubic metre	
4	Second class brick work using common burnt clay building bricks upto any floor level in cement mortar 1:6 (One cement: Six sand) as per direction of Engineer-In-Charge, including entire carriage of materials within all leads, lifts and other incidentals.	4.50 Cubic metres.			Per cubic metre.	
5	Squared rubble masonry coursed with hard stone of approved quality in foundation and plinth including raking out joints with cement mortars 1:6 (One cement: Six sand), including carriage of materials within all leads, lifts and other incidentals as per approved drawing, design and as directed by the Engineer-In-Charge.	1.75 Cubic metres			Per cubic metre	
6	Steel work welded in built up sections trusses and framed work, including cutting, fixing, lifting, hoisting and placing in position complete and applying a coat of red lead paint in gratings framed guards, bars, ladders, railing, brackets and similar work, including carriage of materials within all leads, lifts and other incidentals as per approved drawing, design and as directed by the Engineer-In-Charge.	0.62 Quintals			Per quintal	
7	Supplying and fixing expended metal to wood or steel members in partitions etcetera Weight exceeding 3 kg.(Three kilograms) not exceeding 5 kg (Five kilograms) per square metre within all leads, lifts of materials and other incidentals as per approved drawing, design and as directed by the Engineer-In-Charge.	10.00 Square metres			Per square metre	
8	welding of steel windows shutters where required complete including complete repair to the windows shutter including accessories of window shutter complete and as directed by the Engineer-In-Charge, including carriage of materials within all leads, lifts and other incidentals.	25.00 Numbers			Each	


9	Providing and fixing 300x300 / 450x450/ 600x600mm (Three hundred into Three hundred / Four hundred Fifty into Four hundred Fifty / Six hundred into Six hundred millimetres) thick nominal size anti skid water proof stain and impact resistant heavy duty vitrified tiles ISI marked of Kazzaria/Nico/Rak manufactured of approved shade and colour in flooring, treads of steps and landings laid over 12mm (Twelve millimetres) thick cement mortar 1:3 (One cement : Three sand) jointed with cement slurry mixed with pigment to match the shade of tiles as required complete, as directed by the Engineer-In-charge, including entire carriage of materials within all leads, lifts and other incidentals.	72.96	Square metres	Per square metre	
10	Providing and fixing wall tiles of size 300x450/300x600/200x300 (Three hundred into Four hundred fifty into Three hundred into Six hundred/Two hundred into Three hundred millimetres) thick in skirting, risers of steps and dado for all heights and 12mm (Twelve millimetres) thick sizes of tiles with cement mortar 1:3 (One cement: Three sand) and jointed with white cement slurry and as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals.	75.02	Square metres	Per square metre	
11	Providing and fixing anodised aluminium work (Shampion shade colour coated) for door, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285 anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15) fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. aluminium sections shall be smooth, rustfree, straight, mired and jointed mechanically where ever required including cleast angle, aluminium, snap beading for glazing/ panelling C.P. brass/stainless steel screws for doors windows and ventilators and glazed partitions frames. All complete as per architectural drawings complete and as per direction of Engineer- Incharge, including carriage of materials within all leads, lifts and other incidentals.	30.45	Kilograms	Per kilo-gram	
12	Providing and fixing anodised aluminium work (Shampion shade colour coated) for door, windows, ventilators and partitions with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285 anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15) fixed with rawl plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/neoprene felt etc. Aluminium sections shall be smooth, rustfree, straight, mired and jointed mechanically where ever required including cleast angle, aluminium, snap beading for glazing/ panelling C.P. brass/stainless steel screws for shutters of doors windows & ventilators including providing and fixing hinges/pivots and making provisions for fixing of fittings where ever required including the cost of PVC/neoprene gaskets as required (fittings and glazing/panelling shall be paid for separately) all complete and as per direction of Engineer- Incharge, including carriage of materials within all leads, lifts and other incidentals	25.22	Kilograms	Per kilo-gram	
13	Providing and fixing 300x16mm size (Three hundred into sixteen millimetres) anodized aluminium sliding door bolts anodized transparent or dyed to required colour and shade with necessary screws etc. complete within all leads, lifts of materials and other incidentals.	8	Numbers	Each	
14	Providing and fixing 200x10mm (One hundred fifty into Ten millimetres) size aluminium oxidized Tower bolts (Barrel type) anodized transparent or dyed to required colour and shade with necessary screws etc; complete including entire carriage of materials within all leads, lifts and other incidentals as per approved drawing, design and as directed by the Engineer-In-Charge.	8	Numbers	Each	
15	Providing and fixing 150x10mm (One hundred fifty into Ten millimetres) nominal size aluminium Tower bolts (Barrel type) anodized transparent or dyed to required colour and shade with necessary screws etc; including entire carriage of materials as per directed by the Engineer-In-charge including entire carriage of materials within all leads, lifts and other incidentals.	6	Numbers	Each	

16	Providing and fixing 125mm (One hundred twenty five millimetres) size aluminium handles anodized transparent or dyed to required colour and shade with necessary screws etc. complete and as directed by the Engineer-in-Charge including carriage of materials within all leads, lifts and other incidentals.	6 Numbers			Each	
17	Providing and fixing 12mm (Twelve millimetres) thick prelanimated board both side bwp phenol bonded exterior/interior grade panelled shutters including bright finished/black enamelled iron butt hinges with necessary screws complete and as per direction of Engineer-In-Charge, including entire carriage of material within all leads, lifts and other incidentals.	1.75 Square metres			Per square metre	
18	Supplying and fixing plate glass 5.5mm (Five decimal Five millimetres) thick glass panes with putty and nails including removal of broken glass panes wherever necessary complete as per direction of Engineer-In-Charge, including carriage of material within all leads, lifts and other incidentals.	3.45 Square metres			Per square metre	
19	15mm (Fifteen millimetres) thick cement plaster in single coat on fair side of brick/concrete/stone walls for interior plastering including arises, internal rounded angles, chamfers and or rounded angles not exceeding 80mm (Eighty millimetres) in girth and finished even and smooth including drip course and grooves with cement mortar 1:6 (One cement: Six sand) above plinth level to floor all levels including carriage of material within all leads, lifts and other incidentals, as per approved drawing, design and as directed by the Engineer-In-Charge.	9.45 Square metres			Per square metre	
20	Removing dry or oil bound distemper by washing and scraping and sand papering the wall surface smooth including necessary repairs to scratches complete, as directed by the Engineer-In-Charge, including carriage of materials within all leads, lifts and other incidentals	187.68 Square metres			Per square metre	
21	Wall painting(One coat)with plastic emulsion paint of approved brand and manufacture on decorated wall surface to give an even shade including thoroughly brushing the surface clean of all dirt grease,loose pieces of scall and sand papered smooth as directed by the Engineer-In-Charge, including entire carriage of materials within all leads, lifts and other incidentals	187.68 Square metres			Per square metre	
22	Extra over items 6 for every sub sequent coat of wall paint of approved brand and manufacture as directed by the Engineer-In-Charge, including entire carriage of materials within all leads, lifts and other incidentals	187.68 Square metres			Per square metre	
23	Providing and fixing to wall ceiling and floor galvanised mild steel tubes (Medium grade) Jindal/Tata approved quality tube fitting and clamps including making good the wall, ceiling and floor as directed by the Engineer-In-Charge including carriage of materials within all leads, lifts and other incidentals.	140.00 Running metres			Per running metre	
	i) 15mm (Fifteen millimetres) nominal bore	100.00 Running metres			Per running metre	
	ii) 20mm (Twenty millimetres) nominal bore	15 Numbers			Each	
24	Providing and fixing vitreous China wash down, water closet (European type, W.C. pan) with integral 'P' or 'S' trap including jointing the trap with soil pipe Cera or its equivalent in cement mortar 1:1 (One cement : One sand) Angle Indian Universal closet (Seat and over to be measured and paid for separately as directed by the Engineer-In-Charge, including carriage of materials within all leads, lifts and other incidentals	15 Numbers			Each	

25	Providing and fixing sand cast iron 100mm (Hundred millimetres) size Cera or its equivalent P or S traps for water closet (squating pan) including joining the trap with pan and soil pipe in cement mortar 1:1 (one cement: one sand) as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals	15 Numbers			Each	
26	Providing and fixing plastic seat (Solid/Hollow type) and cover Cera or its equivalent for wash down water closet with C.P. Brass hinges and rubber buffers complete and complete as directed by the Engineer-In-charge including entire carriage of materials within all leads, lifts and other incidentals.	15 Numbers			Each	
27	Providing and fixing Angle back type of size 370x430x340mm (Three hundred seventy into four hundred thirty into three hundred forty millimetres) vitreous China bowl pattern urinal including connection the urinal with waste pipe by means of white lead mixed with chopped hemp (waste pipe to be measured and paid for separately) including necessary fitting complete and as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals	12 Numbers			Each	
28	Providing and fixing 550x400mm (Five hundred fifty into four hundred millimetres) (vitreous China wash basin with single hole for pillar tap with C.I. or M.S. brackets painted white Cera or its equivalent including cutting holes and making good the same but excluding fittings and as directed by the Engineer-In-charge including entire carriage of materials within all leads, lifts and other incidentals.	15 Number			Each	
29	Providing and fixing 32mm (Thirty two millimetres) dia C.P. Brass waste for wash basin or sink ISI make, as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	22 Numbers			Each	
30	Providing and fixing 32mm (Thirty two millimetres) diameters M.I. Union for wash basin or sink ISI make complete as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	15 Numbers			Each	
31	Providing and fixing 32mm (Thirty two millimetres) diameter C.P. Bottle Trap for wash basin and sink and as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals	22 Numbers			Each	
32	Providing and fixing 100mm (One hundred millimetres) diameters C.P. brass grating for gully floor or Nahni trap ISI make as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	32 Numbers			Each	
33	Providing and fixing 600x450mm (Six hundred into Four hundred fifty millimetres) size bevelled edge mirror of superior glass mounted on 6mm thick A.C. Sheet or plywood sheet and fixed to wooden plugs with C.P. Brass screws and washers complete as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	6 Numbers			Each	
34	Providing and fixing chromium plated brass toilet paper holder Clarion series (GA/GIB Endorsing the green building norm/Green Initiative/Jaguar or equivalent (Heavy duty make ISI marked No-8931 & 8934) including entire carriage of materials within all leads, lifts and other incidentals.	6 Numbers			Each	
35	Providing and fixing chromium plated brass soap dish with C.P. brass brackets fixed to wooden cleats with C.P. brass screws Cera or its equivalent as directed by the Engineer-In-charge including entire carriage of materials within all leads, lifts and other incidentals.	6 Numbers			Each	
36	Providing and fixing 15mm (Fifteen millimetres) diameters long nose brass bib tap (Superior or heavy type) Cera or its equivalent as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	15 Numbers			Each	

37	Providing and fixing 15mm (Fifteen millimetres) dia long body brass bib tap (Superior or heavy type) Cera or its equivalent complete as directed by the Engineer-in-Charge, including carriage of materials within all leads, lifts and other incidentals.	15 Numbers			Each	
38	Providing and fixing 15mm (Fifteen millimetres) C.P. brass angle valve without nuts and pipe Cera or its equivalent complete as directed by the Engineer-in-Charge, including carriage of materials within all leads, lifts and other incidentals.	35 Numbers			Each	
39	Providing and fixing 15 mm (Fifteen millimetres) P.V.C connection pipe with brass unions 300/450 mm (Three hundred / Four hundred fifty millimetres) length as directed by the Engineer-in-Charge, including entire carriage of materials within all leads, lifts and other incidentals as per approved drawing, design and as directed by the Engineer-in-Charge.	50 Numbers			Each	
40	Providing and fixing PTMT Coloured/white high density polyethylene / poly propylene 10.00 ltrs (Ten litres) capacity (full flush) European standard control low level flushing cistern with fittings with a pair of brackets with fittings such as lead valve, syphon, 15mm (Fifteen millimetres) nominal size PVC ball valve with polythene float, with push button, couplings for connections with inlet, outlet and over flow pipe, 40mm (Forty millimetres) dia C.P. flush bend including cutting holes in walls and making good the same and connecting the flush bend with cistern and closet (overflow pipe to be measured and paid for separately) as directed by the Engineer-in-Charge, including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
41	Providing and fixing Division Plate for Urinals 600mm x 300 (Six hundred into three millimetres) Vitreous China complete and as per direction of Engineer-in-charge, including carriage of material within all leads, lifts and other incidentals.	5 Numbers			Each	
42	Providing and fixing PTMT jet spray of approved quality and colour with one metre tube as directed by the Engineer-in-Charge, including entire carriage of materials within all leads, lifts and other incidentals.	8 Numbers			Each	
43	Providing and fixing PVC spigot and socketpipes Type-B for soil waste and ventilating pipe pressure not less than 6kg/cm ² (Six kilogramper centimetre square) including fixing with approved adhesive etc. complete as directed by the Engineer-in-Charge including entire carriage of materials within all leads, lifts and other incidentals.					
(i)	110mm (One hundred ten millimetres) diameters	62.00 Running metres			Per running metre	
(ii)	90mm (Ninety millimetres) diameters	62.00 Running metres			Per running metre	
(iii)	50mm (Fifty millimetres) diameters	22.00 Running metres			Per running metre	

44	Providing and fixing PVC single equal branch plain ISI marked including fixing with approved adhesive etc. complete as directed by the Engineer-In-charge including entire carriage of materials within all leads, lifts and other incidentals.								
(i)	110mm (One hundred ten millimetres) diametres	20 Numbers					Each		
(ii)	90mm (Ninety millimetres) diametres	40 Numbers					Each		
45	Providing and fixing PVC offset 45° (Forty five degree) marked including fixing with approved adhesive etc. complete as per the direction of the Engineer-In-charge including making good the floors and as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals.								
(i)	110mm (One hundred ten millimetres) diametres	10 Numbers					Each		
(ii)	90mm (Ninety millimetres) diametres	20 Numbers					Each		
46	Providing and fixing PVC collars ISI marked including fixing with approved adhesive etc. complete as per the direction of the Engineer-In-charge including making good the floors and as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals.								
(i)	110mm (One hundred ten millimetres) diametres	12 Numbers					Each		
(ii)	90mm (Ninety millimetres) diametres	40 Numbers					Each		
47	Providing and fixing 110x90mm (One hundred ten into Ninety millimetres) nominal size PVC floor trap ISI marked of self cleaning design including fixing with approved adhesive, cost of cutting and making good the wall and floors etc. complete as directed by the Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals	32 Numbers					Each		
48	Providing and fixing 150mm (One hundred fifty millimetres) dia for C.I. pipes M S holder bat clamps of approved design to C.I. or S.C.I. pipes embedded in including cement concrete blocks 10x10x10cm (Ten into ten into ten centimeters) of 1:2:4 (One Cement : Two Sand : Four graded crushed stone aggregate 20 mm (Twenty millimetres) nominal sizecutting and cost of cutting holes and making good the wall etc; making good including entire carriage of materials within all leads lifts and other incidentals.	12 Numbers					Each		
(i)	150mm (One hundred fifty millimetres) dia	12 Numbers					Each		
(ii)	100mm (One hundred millimetres) dia	12 Numbers					Each		
49	Providing and fixing 4mm (Four millimeters) thick plain asbestos cement sheet ceiling of approved quality with butt jointing and wood screws (frame work and cover fillets to be measured and paid for separately) as per approved drawing, design complete and as per direction of Engineer-In-charge, including carriage of materials within all leads, lifts and other incidentals.	114.00 Square metres					Per square meter		
TOTAL :-									


 Executive Engineer,
 HP PWD Division,
 Tanda at Nabagan

Schedule of Quantity

ESTIMATED COST :- ₹ 294008.00
EARNEST MONEY :- ₹ 5900.00
TIME LIMIT : THREE MONTHS

NAME OF Construction of Toilet block in Govt. Sen. Sec. School Aetla, Teh. Baoh, Distt. Kangra (H.P)

SUB HEAD:- Construction of Civil work including water supply and sanitary installations.

S. No.	Description of items	Quantity	Rate		Unit	Amount
			in fig.	In words		
1	Excavation work by mechanical means (Hydraulic excavator) manual means in foundation trenches or drains (not exceeding 1.5m in width or 10 Square metres on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50 m. for Ordinary rock as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	8.04 Cubic metres	3	4	Per cubic metre	7
2	Providing and laying cement concrete 1:4:8 (1 cement:4 sand:8graded stone aggregate 40mm nominal size) including cost of centring and shuttering in foundations and plinth as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	2.06 Cubic metres			Per cubic metre	
3	Providing and laying in position cement concrete of specified grade including the cost of centring and shuttering - All work up to plinth level 1:3:6 (1 Cement : 3 coarse sand) : 6 graded stone aggregate 20 mm nominal size) complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	3.81 Cubic metres			Per cubic metre	
4	Stone Filling in plinth with approved sand under floors including watering, ramming, consolidating and dressing complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	0.79 Cubic metres			Per cubic metre	
5	Brick work using Second class common burnt clay buildings bricks in super-structure above plinth level upto all floor level in cement mortar 1:6 (one cement isto six sand) and curing complete as per approved drawing, design and specifications and as per directions and entire satisfaction of the Engineer-In-Charge including carriage of material within all leads, lifts and other incidentals.	6.38 Cubic metres			Per cubic metre	
6	Half brick masonry with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in super structure above plinth level in : cement mortar 1:4 (1 cement : 4 coarse sand) as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	5.40 Square metres			Per square metre	
7	Providing form work with steel plates 3.15mm thick welded with angle iron frame 30x30x5mm Size so as to give a fair finish including centering, shuttering, strutting and propping etcetera with wooden battens and batties, height of propping and centering below supporting floor to ceiling upto all height and removal of the same for in-situ reinforced concrete and plain concrete work as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	16.92 Square metres			Per square metre	
i)	Flat surfaces such as soffits of suspended floors, roofs, landing and the like. upto 200mm in thickness.	10.47 Square metres			Per square metre	
ii)	Beam cantilever girders and lintels side and soffits of beam haunching, cantilevers girders bressumers lintels not exceeding 1 metre depth in all heights from floor.	16.48 Running metres			Per running metre	
iii)	Edges of slab and breaks in floors and walls. under 20cm. wide.					

8	Providing and laying in position machine batched and machine mixed design mix M-20 (M-Twenty) grade cement concrete for reinforced cement concrete work, using cement content as per approved design mix, Cement content considered in this item is @330 Kilogram/Cubic metres. All works above plinth level upto floor all level including pumping of concrete to site of laying but excluding the cost of centering, shuttering, finishing and reinforcement, including admixtures in recommended proportions as per IS: 9103 to accelerate, retard setting of concrete, improve workability without impairing strength and durability as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	3.32 Cubic metres			Per cubic metre	
9	Providing Tor steel reinforcement for Reinforced Cement Concrete work including bending, binding and placing in position complete including cost of binding wires complete and other incidentals due for its completion upto plinth level to floor five level as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	331.86 Kilogram			Per kilogram	
10	Providing and fixing anodised / colour coated aluminium work for door (External door NO 14081 Size 127 x 44.45 x 3.19mm), window, ventilators and partitions frame with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285 anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15) fixed with raw/plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/Neoprene felt etc. Aluminium sections shall be smooth rustfree, straight, mired and jointed mechanically where ever required including cleast angle, aluminium, snap beading for glazing/panelling C.P. brass/stainless steel screws. All complete as per architectural drawings and the directions of Engineer-In-Charge. For doors windows, ventilators and glazed partitions frames. For shutters of doors windows & ventilators including providing and fixing hinges/pivots and making provisions for fixing of fittings where ever required including the cost of PVC/Neoprene gaskets as required (fittings and glazing/panelling shall be paid for separately) as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	11.90 Kilogram			Per kilo gram	
11	Providing and fixing anodised/ colour coated aluminium work for door, window, ventilators and partitions shutter with extruded built up standard tubular and other sections of approved make conforming to IS 733 and IS 1285 anodised transparent or dyed to required shade according to IS 1868. (Minimum anodic coating of grade AC 15) fixed with raw/plugs and screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC/Neoprene felt etc. Aluminium sections shall be smooth rustfree, straight, mired and jointed mechanically where ever required including cleast angle, aluminium, snap beading for glazing/panelling C.P. brass/stainless steel screws. All complete as per architectural drawings and the directions of Engineer-In-Charge. For doors windows, ventilators and glazed partitions frames. For shutters of doors windows & ventilators including providing and fixing hinges/pivots and making provisions for fixing of fittings where ever required including the cost of PVC/Neoprene gaskets as required (fittings and glazing/panelling shall be paid for separately) as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	37.76 Kilogram			Per kilo gram	
12	Providing and fixing fly proof galvanized M.S. wire gauge to windows and clerestory windows using wire gauge with average width of aperture 1.4 mm in both directions with wire of dia 0.63 mm all complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	3.32 Square metres			Per square metre	


13	Providing and fixing 250x16mm size aluminium sliding door bolts, ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868), transparent or dyed to required colour or shade, with nuts and screws etc; complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers			Each	
14	Providing and fixing 150x10mm size aluminium tower bolts, ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	4 Numbers			Each	
15	Providing and fixing 150 mm size aluminium handles , ISI marked, anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade, with necessary screws etc. Complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	4 Numbers			Each	
16	6mm thick cement plaster to ceiling in cement mortar 1:3 (1 cement: 3 sand) as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	17.78 Square metres			Per square metre	
17	15mm thick cement plasters in single coat on rough side of brick/concrete/stone walls for interior plastering upto all floor level including arises, internal rounded angles, chamfers and or rounded angles not exceeding 80mm in girth and finished even and smooth with cement mortar 1:6 (1 cement: 6 sand) upto all floor level as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	31.38 Square metres			Per square metre	
18	15mm thick cement plasters in single coat on fair side of brick/concrete/stone walls for exterior plastering upto all floor level including arises, internal rounded angles, chamfers and or rounded angles not exceeding 80mm in girth and finished even and smooth with cement mortar 1:4 (1 cement: 4 sand) as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	30.15 Square metres			Per square metre	
19	Providing and applying white cement based putty of Birla / JK average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	79.31 Square metres			Per square metre	
20	Finishing walls with 100% Premium/washable acrylic emulsion paint (Two or more coats applied @ 1.43 litre/ 10 Square metres. Over and including priming coat of interior primer applied @ 0.90 litre/10 Square metres having VOC less than 50 gm/litre and UV resistance as per IS 15489:2004, Alkali & fungal resistance, dirt resistance interior paint of required shade (Company Depot Tinted) with silicon additives, all complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	79.31 Square metres			Per square metre	
21	Providing and laying aspartic ceramic tiles antikid of Orient/Somany/RAK or equivalent in flooring 300x300mm (Three hundred into Three hundred millimetres) size in trends of steps laid on a bed of 12mm (Twelve millimetres) thick cement mortar 1:3 (One cement isto Three sand) finished with flush pointing in white cement complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.	12.22 Square metres			Per square metre	

22	Providing and fixing 1st quality ceramic glazed floor tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge 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 grey cement slurry @ 3.3Kilogram per Square metres including pointing in white cement mixed with pigment of matching shade complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	22.80	Square metres				Per square metre	
23	Providing and fixing IS marked Cera / Hindware or equivalent White vitreous china water closet squatting pan (Indian type) Orissa pattern W.C Pan of size 580x440mm including all necessary materials, labour and disposal of dismantled material including malba, all complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2	Numbers				Each	
24	Providing and fixing 150mm (one hundred fifty millimeter) dia PVC 'P' or 'S' trap for water closet (squatting pan) make of Finolex including jointing the trap with the pan and PVC pipe with approved adhesive etcetera complete in all floor level/height complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2	Numbers				Each	
25	Providing and fixing P.V.C. low level flushing cistern 10 litre capacity - White with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2	Numbers				Each	
26	Providing and fixing 15mm nominal bore PVC connection pipe with brass union 45cm length, complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2	Numbers.				Each	
27	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps, 32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require: White Vitreous China Flat back wash basin size 550x 400 mm with single 15 mm C.P. brass pillar tap complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1	Numbers.				Each	
28	Providing and fixing white vitreous china pedestal for wash basin completely recessed at the back for the reception of pipes and fittings complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1	Numbers.				Each	
29	Providing and fixing 100mm diametres C.P. grating (Heavy duty makes ISI marked is No. 8931 & 8934) for gully floor or Nahni trap including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	3	Numbers.				Each	
30	Providing and fixing 100mm nominal size/diameter P.V.C. floor trap including filling the joints with adhesive mixture including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	3	Numbers.				Each	
31	Providing and fixing 32mm diameters P.V.C. waste pipe for wash basin or sink including brass check nut including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1	Numbers.				Each	

32	Providing and fixing 32mm nominal size diameters rubber plug for wash basin (Heavy duty makes ISI marked is No. 8931 7893) including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 Numbers.			Each	
33	Providing and fixing flat back 600x450mm beveled edge mirror or superior glass mounted on 6mm thick A.C. sheet or ply wood sheet and fixed to wooden plugs with C.P. brass and screws and washers including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 Numbers			Each	
34	Providing and fixing chromium plated (Heavy duty makes ISI marked is No. 8931 & 8934) brass soap dish with C.P. brass brackets fixed to wooden cleats with C.P. brass screws including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 Numbers.			Each	
35	Providing and fixing 15mm diameters C.P. brass (Heavy duty makes ISI marked is No. 8931 & 8934) bit tap with capstan head including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
36	Providing and fixing 15mm nominal bore brass full way valve with wheel including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	2 Numbers.			Each	
37	Providing and placing water tank make P.V.C. SINTEX having capacity of 500 liters each tank necessary fittings including over flow pipe scour pipe etc and pads required for in let and out let and inside painting ball valve with cover and locking arrangements including painting of good quality complete in all respect including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	1 Numbers.			Each	
38	Providing and fixing G.I. pipes complete with G.I. Fittings and clamps i/c cutting and making good the walls etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	18.00 Running metres			Per running metre	
ii)	20mm (Twenty millimetre) nominal bore/ dia	18.00 Running metres			Per running metre	
ii)	15mm (Fifteen millimetre) nominal bore/ dia	18.00 Running metres			Per running metre	
39	Providing and fixing on wall face unplasticised Rigid PVC rain water pipes conforming to IS : 13592 Type A, including jointing with seal ring conforming to IS : 5382, leaving 10 mm gap for thermal expansion, (i) Single socketed pipes, including filling the joints with approved adhesive including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	18.00 Running metres			Per running metre	
ii)	110mm (One hundred ten millimetre) nominal bore/ dia	18.00 Running metres			Per running metre	
ii)	75mm (Seventy five millimetre) nominal bore/ dia	18.00 Running metres			Per running metre	

40	Providing and fixing on wall face C.I. accessories for Rain water pipes including filling the joints with approved adhesive including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.				
i)	110mm (One hundred ten millimetre) dia PVC. Plain bend	6 Numbers		Each	
ii)	75mm (Seventy five millimetre) dia PVC. Plain bend	3 Numbers		Each	
41	Providing and fixing PVC collors, ISI marked including fixing with approved adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.				
i)	110mm (One hundred ten millimetre) nominal bore/ dia	6 Numbers		Each	
ii)	75mm (Seventy five millimetre) nominal bore/ dia	3 Numbers		Each	
42	Providing and fixing PVC deor bend, ISI marked including fixing with approved adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.				
i)	110mm (One hundred ten millimetre) nominal bore/ dia	6 Numbers		Each	
ii)	75mm (Seventy five millimetre) nominal bore/ dia	3 Numbers		Each	
43	Providing and fixing 75mm dia PVC. Clamp PVC clamp, ISI marked including fixing with approved adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	3 Numbers		Each	
44	Providing and fixing 110 x 75mm dia PVC reducer, ISI marked including fixing with approved adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.	6 Numbers		Each	
45	Providing and fixing PVC plain double equal branch ISI marked including fixing with approved adhesive etc. including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads and lifts and other incidentals.				
i)	110mm (One hundred ten millimetre) nominal bore/ dia	2 Numbers		Each	
ii)	75mm (Seventy five millimetre) nominal bore/ dia	2 Numbers		Each	

46	Providing and fixing GI/MI union of following sizes including necessary fitting complete as per HPPWD technical specification and as directed by the Engineer-In-charge including carriage of materials within all leads and lifts and other incidentals.					
i)	20mm (Twenty millimetre) nominal bore/ dia	4 Numbers			Each	
ii)	15mm (Fifteen millimetre) nominal bore/ dia	3 Numbers			Each	
TOTAL :-						


 Executive Engineer
 HPPWD Division
 Tanda at Nagro Bagwan

SCHEDULE OF QUANTITY

NAME OF Construction of culvert to the house of Sandeep Singh and other in village Bhader in Tehsil Nagrota Bagwan, in Dist. Kangra (H.P).
SUB-HEAD :- Construction of culvert alongwith approaches (Deposit work).

ESTIMATED COST:- ₹ 498798.00
EARNEST MONEY :- ₹ 10000.00
TIME LIMIT : THREE MONTHS

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	Excavation in drains and channels etc: in earth work in all kind of soil, such as pick work, jumper work, pick jumper work, blasting work, hard and soft blasting, saturator soil including chiseling or any other mixed variety of soil, lift upto any heights, stacking the excavated soil for all heights from the edge of excavation and then returning the stacked soil in 15cm (Fifteen centimeter) layer when required into plinths sides of foundations etc. Consolidating each deposited layer by ramming, watering and then disposing of all surplus excavated earth as directed by the Engineer-Incharge, including entire carriage of materials within all leads, lifts and other incidentals.	38.87 Cubic metres	4	5	Per cubic metre	7
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:5:10 (One cement : Five coarse sand : Ten graded stone aggregate 40 mm (Forty millimetres nominal size) as per drawing and H.P.P.W.D technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	99.88 Cubic metres			Per cubic metre	
3	Providing and laying concrete for plain reinforcement concrete in open foundation complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 PCC Grade (M-20) (M-Twenty) nominal mix 1:2:4 (One cement: Two sand: Four graded/crushed stone aggregate) 40mm (Forty millimetres) thickness as per H.P.P.W.D technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	19.20 Cubic metres			Per cubic metre	
4	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	18 Numbers			Each	
5	Backfilling behind abutment, wing wall and return wall complete as per drawings and technical specification Clause 1204.3.8, granular material complete as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	18.38 Cubic metres			Per cubic metre	
TOTAL :-						

Executive Engineer,
H.P.P.W.D., Division,
Tanda at Nagrota Bagwan.

Schedule of Quantity

ESTIMATED COST :- Rs. 498749.00
EARNEST MONEY :- Rs. 10000.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Construction of Busal Narivalkar Sipanpat road Km 0/000 to 4/525 in Dist. Kangra (H.P.)

SUB HEAD :- Construction of Breast wall at RD 1/088 to 1/100, C/O Retaining wall at RD 1/430 to 1/449 and C/O road side parapets at various RD's

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m (One point five metre) in width or 10 sqm (Ten square metre) on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m (One point five metre), including getting out the excavated soil and disposal of surplus excavated soils as directed, within any lead including entire carriage of materials within all leads, lifts and other incidentals.	56.37 Cubic metres	4	5	6 Per cubic metre	7
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:5:10 (One cement : Five coarse sand : Ten graded stone aggregate 40 mm (Forty millimetres nominal size) as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	109.96 Cubic metres			Per cubic metre	
3	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	57.50 Running metres			Per running metre	
4	Backfilling behind abutment, wing wall and return wall complete as per drawings and technical specification Clause 1204.3.8, granular material complete as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	24.40 Cubic metres			Per cubic metre	
5	Providing concrete for plain/reinforced concrete in substructure complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 in 1:2.5:5 (One cement : Two and half sand : five graded) broken/crushed stone aggregate 20mm (Twenty millimeters) nominal size PCC grade M-15 (M-Fifteen), as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	9.91 Cubic metres			Per cubic metre	
TOTAL :-						

Executive Engineer,
H.P.P.W.D., Division,
Tanda at Nagar Bagwan.

Schedule of Quantity

ESTIMATED COST:- Rs. 498465.00
EARNEST MONEY :- Rs. 10000.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Construction of Gau Sadan at Nagrota Bagwan in Distt. Kangra (H.P.).

SUB HEAD :- Balance work of Retaining wall and Drain etc;

S. No.	Description of Items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	2	3	4	5	6	7
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m (One point five metre) in width or 10 sqm (Ten square metre) on plan), including dressing of sides and ranning of bottoms, lift upto 1.5 m (One point five metre), including getting out the excavated soil and disposal of surplus excavated soils as directed, within any lead including entire carriage of materials within all leads, lifts and other incidentals.	48.16 Cubic metres			Per cubic metre	
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:5:10 (One cement : Five coarse sand : Ten graded stone aggregate 40 mm (Forty millimetres nominal size) as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	132.85 Cubic metres			Per cubic metre	
3	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering .Plain cement concrete 1:3:6 (One Cement : Three coarse sand : Ten graded stone aggregate 20 mm (Twenty millimetres) nominal size complete as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	21.28 Cubic metres			Per cubic metre	
4	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	58 Numbers			Each	
5	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required in gratings, frames, guard bar, ladder, railings, brackets, gates and similar works including entire carriage of materials within all leads, lifts and other incidentals.	226.00 Kilogram			Per kilo gram	
6	Providing and fixing Made of G.I. wire of dia 4 mm (Four millimetre) nominal size G.I. chain link fabric fencing of required width in mesh size 50x50 mm (Fifty into fifty millimetre) including strengthening with 2 mm dia wire or nuts, bolts and washers as required complete as per drawings and technical specification Clause 1204.3.8, as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	12.00 Square metres			Per square metre	
TOTAL :-						

Executive Engineer,
H.P.W.D., Division,
Tanda at Nagrota Bagwan.

Schedule of Quantity

NAME OF WORK :-

Restoration of rain damages on Kawari Rauhun road in Distt. Kangra (H.P.).

SUB HEAD :-

Construction of Retaining wall at RD 1/800 to 1/810

ESTIMATED COST :-

Rs.

286770.00

EARNEST MONEY :-

Rs.

5750.00

TIME LIMIT

:

THREE MONTHS

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m (One point five metre) in width or 10 sqm (Ten square metre) on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m (One point five metre), including getting out the excavated soil and disposal of surplus excavated soils as directed, within any lead including entire carriage of materials within all leads, lifts and other incidentals.	3 18.78 Cubic metres	4	5	6 Per cubic metre	7
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:5:10 (One cement : Five coarse sand : Ten graded stone aggregate 40 mm (Forty millimetres nominal size) as per drawing and HP.PWD technical specifications and as directed by Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	72.50 Cubic metres			Per cubic metre	
3	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	12 Numbers			Each	
4	Backfilling behind abutment, wing wall and return wall complete as per drawings and technical specification Clause 1204.3.8, granular material complete as directed by the Engineer-In-charge including carriage of materials within all leads, lifts and other incidentals.	8.75 Cubic metres			Per cubic metre	
TOTAL :-						

Executive Engineer,
H.P.P.W.D., Division,
Tanda at Nagrota Bagwan.

Schedule of Quantity

ESTIMATED COST: - Rs. 499558.00
EARNEST MONEY: - Rs. 10000.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Construction of Cheena to Lohar Lahari road Km 0/000 to 6/000 in Distt. Kangra (H.P.)

SUB HEAD :- Construction of Edge walls, providing and laying cement concrete pavement at various RDS between Km 0/000 to 6/000.

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains (not exceeding 1.5m (One point five metre) in width or 10 sqm (Ten square metre) on plan), including dressing of sides and ramming of bottoms, lift upto 1.5 m (One point five metre), including getting out the excavated soil and disposal of surplus excavated soils as directed, within any lead including entire carriage of materials within all leads, lifts and other incidentals.	3 25.27 Cubic meters	4	5	6 Per cubic metre	7
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:3:6 (One Cement : Three coarse sand): Six graded stone aggregate 40 mm (Forty millimetre) nominal size) complete etc as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	40.50 Cubic meters			Per cubic metre	
3	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering - All work up to plinth level 1:5:10 (One cement : Five coarse sand : Ten graded stone aggregate 40 mm (Forty millimetres nominal size) as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	12.10 Cubic metres			Per cubic metre	
4	Providing weepholes in brick masonry/stone masonry, plain/reinforced concrete abutment, wing wall, return wall with 100 mm dia PVC pipe extending through the full width of the structures with slope of 1(V):20(H) towards drawing face complete as per drawing and technical specifications clauses 614, 709, 1204.3.7 as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	30.36 Running metres			Per running metre	
5	Backfilling behind abutment, wing wall and return wall complete as per drawings and technical specification Clause 1204.3.8, granular material complete as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	31.68 Cubic metres			Per cubic metre	

6	Providing, laying, spreading and compacting stone aggregate of size 63mm to 45mm (sixty three millimeter to forty five millimeter) Grading-II size [75mm (seventy five millimeters) compacted thickness] to water bound Macadam specification including spreading in uniform thickness using template, hand packing, rolling with three wheel 80-100 (eighty-Hundred) K.N. static roller in stages to proper grade and camber applying and brooming, stone screening type-A of size 13.2mm (thirteen point two millimeters) nominal size at the rate of 0.22 cum (zero point twenty two) cubic metres per 10 sqm (per ten square metres) and binding material at the rate 0.06 cum (zero point zero six cubic metre) to fill up the interstices of coarse aggregate, watering and compacting to the required density as per technical specifications clause No. 405 and as per drawing and HP.PWD technical specifications, as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	12.19	Cubic metres			Per cubic metre	
7	Providing and laying concrete for plain reinforcement concrete in open foundation complete as per drawing and technical specification clauses 802, 803, 1202 and 1203 PCC Grade (M-20) (M-twenty) nominal mix 1:2:4 (One cement: Two sand: Four graded/crushed stone aggregate) 40mm (Forty millimeters) thickness as per HPPWD technical specification and as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	24.38	Cubic metres			Per cubic metre	
8	Providing concrete for plain/reinforced concrete in substructure complete as per drawings and technical specifications Clause 802, 803, 1202 & 1203 in 1:2.5:5 (One cement : Two and half sand : five graded) broken/crushed stone aggregate 20mm (Twenty millimeters) nominal size PCC grade M-15 (M-Fifteen), as directed by the Engineer-Incharge including carriage of materials within all leads, lifts and other incidentals.	10.26	Cubic metres			Per cubic metre	
TOTAL :-							

Executive Engineer,
H.P.W.D., Division,
Tanda at Nagroa Bagwan.

Schedule of Quantity

ESTIMATED COST: - Rs. 396667.00
EARNEST MONEY: - Rs. 7950.00
TIME LIMIT : TWO MONTHS

NAME OF WORK :- Restoration of rain damages on Kangra Tanda Sadarpur road Km 0/000 to 6/000 in Distt. Kangra (H.P.).
SUB HEAD :- Construction of U-shape drain in Km 1/880 to 2/125

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig.	In words		
1	2	3	4	5	6	7
1	Earthwork in excavation for structures as per drawing and technical specifications Clause 305.1 including setting out, construction of shoring and bracing, removal of stumps and other deleterious material and disposal upto any lead, dressing of sides and bottom and backfilling in trenches with excavated suitable material complete as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	297.00 Cubic meters			Per cubic metre	
2	Providing and laying in position cement concrete of specified grade including the cost of centering and shuttering. Plain cement concrete 1:3:6 (One Cement : Three coarse sand : Ten graded stone aggregate 20 mm (Twenty millimetres) nominal size complete as per drawing and HP.PWD technical specifications and as directed by Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	68.24 Cubic metres			Per cubic metre	
TOTAL :-						

Executive Engineer,
H.P.P.W.D., Division,
Tanda at Nagrota Bagwan.

SCHEDULE OF QUANTITY

ESTIMATED COST:- ₹ 499792.00
EARNEST MONEY:- ₹ 10000.00
TIME LIMIT : THREE MONTHS

NAME OF WORK :- Special repair to Various Hostel at Dr. R.P. Govt. Medical College Tanda in Dist. Kangra (H.P.)
SUB-HEAD :- Providing and fixing water supply and sanitary installation etc.

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	Providing and fixing white vitreous china pedestal type water closet (European type W.C. pan) with seat and lid, 10 litre (Ten litre) low level white P.V.C. flushing cistern, including flush pipe, with manually controlled device (handle lever), conforming to IS : 7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required W.C. pan with ISI marked white solid plastic seat and lid complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	1			Each	
2	Providing and fixing white vitreous china water closet squatting pan (Indian type) Orissa pattern W.C. pan of size 580x440 mm (Five hundred eighty into four hundred forty millimetres) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	2			Each	
3	Providing and fixing G.I. inlet connection for flush pipe connecting with W.C. pan complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	20			Each	
4	Providing and fixing CP Brass 32mm (Thirty two millimetres) size Bolite trap of approved quality & make complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	3			Each	
5	Providing and fixing white solid plastic seat with lid for pedestal type W.C. pan complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	1			Each	
6	Providing and fixing Flat back wash basin of size 450x300 mm (Four hundred fifty into three hundred millimetres) white vitreous china wash basin including making all connections but excluding the cost of fittings complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	3			Each	
7	Providing and fixing 32 mm (Thirty two millimetres) dia C.P. brass chain and rubber plug complete for sink or wash basin complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	8			Each	
8	Providing and fixing Semi rigid pipe 32 mm (Thirty two millimetres) dia P.V.C. waste pipe for sink or wash basin including P.V.C. waste fittings complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	12			Each	
9	Providing and fixing Circular type 100 mm (One hundred millimetres) nominal dia PTMT grating of approved quality and colour complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	20			Each	
10	Providing and fixing 600x450mm (Six hundred into four hundred fifty millimetres) beveled edge mirror of superior glass (of approved quality) complete with 6 mm (Six millimetres) thick hard board ground fixed to wooden cleats with C.P. brass screws and washers complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	12			Each	

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	2	3	4	5	6	7
11	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour 450 mm (Four hundred fifty millimetres) long towel rail with total length of 495 mm (Four hundred ninety five millimetres), 78 mm (Seventy eight millimetres) wide and effective height of 88 mm (Eighty eight millimetres), weighing not less than 170 gms (One hundred seventy grams) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
12	Providing and fixing 600X120X5 mm (Six hundred twenty into five millimetres) glass shelf with edges round off, supported on anodised aluminium angle frame with C.P. brass brackets and guard rail complete fixed with 40 mm (Forty millimetres) long screws, rawl plugs etc. complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
13	Providing and fixing PTMT soap Dish Holder having length of 138mm (One hundred thirty eight millimetres), breadth 102mm (One hundred two millimetres), height of 75mm (Seventy five millimetres) with concealed fitting arrangements, weighing not less than 106 gms. (One hundred six grams) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	15 Numbers			Each	
14	Providing and fixing 15 mm (Fifteen millimetres) nominal bore C.P. brass long nose bib cock of approved quality conforming to IS standards and weighing not less than 810 gms. (Eight hundred ten grams) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
15	Providing and fixing 15 mm (Fifteen millimetres) nominal bore C.P. brass long body bib cock of approved quality conforming to IS standards and weighing not less than 690 gms. (Six hundred ninety grams) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
16	Providing and fixing 15mm (Fifteen millimetres) nominal bore C.P. brass angle valve for basin mixer and geyser points of approved quality conforming to IS:8931 complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	14 Numbers			Each	
17	Providing and fixing 510X1040 mm (Five hundred ten into one thousand forty millimetres) bowl depth 250 (Two hundred fifty) Stainless Steel A ISI 304 (18/8) Kitchen sink with drain board as per IS:13983 with C.I. brackets and stainless steel plug 40 mm (Forty millimetres), including painting of fittings and brackets, cutting and making good the walls wherever required complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	1 Numbers			Each	
18	Providing and fixing 15 mm (Fifteen millimetres) nominal bore uplasticised PVC connection pipe with brass unions 30 cm (Thirty centimetres) length complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
19	Providing and fixing G.I. Union in G.I. pipe including cutting and threading the pipe and making long screws etc. complete (New work) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	20 Numbers			Each	
i	15 mm (Fifteen millimetres) nominal bore	20 Numbers			Each	
ii	20 mm (Twenty millimetres) nominal bore	20 Numbers			Each	

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	2	3	4	5	6	7
20	Providing and fixing 15 mm (Fifteen millimetres) nominal bore brass bib cock of approved quality complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
21	Providing and fixing 15 mm (Fifteen millimetres) nominal bore brass stop cock of approved quality complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	20 Numbers			Each	
22	Providing and fixing ball valve (brass) of approved quality, High or low pressure, with plastic floats complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	5 Numbers			Each	
22	Providing and fixing 10 litre (Ten litre) capacity - White P.V.C. low level flushing cistern with manually controlled device (handle lever) conforming to IS : 7231, with all fittings and fixtures complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
23	Providing and fixing 500 (Five thousand) litres net capacity tank (THREE LAYER SINTAX, JAI BHARAT, D-PLAST, VECTUS) PVC water storage tank of ISI : 12701 marked, G.I. inlet and outlet connection, 15mm (Fifteen millimetres) nominal bore ball valve and mosquito proof PVC cover with locking arrangement including hoisting up to all heights above ground level (Jai bharat D-plast Vacuts equivalent) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	10 Numbers			Each	
24	Providing and fixing 1000 (One thousand) litres net capacity tank (THREE LAYER SINTAX, JAI BHARAT, D-PLAST, VECTUS) PVC water storage tank of ISI : 12701 marked, G.I. inlet and outlet connection, 15mm (Fifteen millimetres) nominal bore ball valve and mosquito proof PVC cover with locking arrangement including hoisting up to all heights above ground level (Jai bharat D-plast Vacuts equivalent) complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	2 Numbers			Each	
25	Providing and fixing 2000 (Two thousand) litres net capacity tank (THREE LAYER SINTAX, JAI BHARAT, D-PLAST, VECTUS) PVC water storage tank of ISI : 12701 marked, G.I. inlet and outlet connection, 15mm (Fifteen millimetres) nominal bore ball valve and mosquito proof PVC cover with locking arrangement including hoisting up to all heights above ground level (Jai bharat D-plast Vacuts equivalent) complete as per direction of Engineer-In-Charge including entire carriage of material within all leads, lifts and other incidentals.	100.00 Running metres			Per Running metre	
27	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	200.00 Running metres			Per Running metre	
i	15 mm (Fifteen millimetres) dia nominal bore	100.00 Running metres			Per Running metre	
ii	20 mm (Twenty millimetres) dia nominal bore	100.00 Running metres			Per Running metre	
iii	25 mm (Twenty five millimetres) dia nominal bore	100.00 Running metres			Per Running metre	

S. No.	Description of Items	Quantity	Rate		Unit	Amount
			In fig	In words		
28	Providing and fixing G.I. Tank Nipple complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	20			Each	
i	15mm (Fifteen millimetres) dia	Numbers 20			Each	
ii	20mm (Twenty millimetres) dia	Numbers 15			Each	
ii	25mm (Twenty five millimetres) dia	Numbers 15				
29	Providing and fixing G.I. Gate valve complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	15			Each	
i	15mm (Fifteen millimetres) dia	Numbers 25			Each	
ii	20mm (Twenty millimetres) dia	Numbers 10			Each	
ii	25mm (Twenty five millimetres) dia	Numbers 10				
30	Providing and fixing G.I. Float valve complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	20			Each	
i	15mm (Fifteen millimetres) dia	Numbers 29			Each	
ii	20mm (Twenty millimetres) dia	Numbers 10			Each	
iii	25mm (Twenty five millimetres) dia	Numbers				
31	Providing and fixing G.I. Nipple complete as per direction of Engineer-In-Charge including carriage of material within all leads, lifts and other incidentals.	30			Each	
1	15mm (Fifteen millimetres) dia	Numbers 35			Each	
i	2" (Two Inch)	Numbers 36			Each	
ii	3" (Three Inch)	Numbers 40			Each	
iii	4" (Four Inch)	Numbers 20			Each	
iv	6" (Six Inch)					
v	10" (Ten Inch)					

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	2	3	4	5	6	7
2	20mm (Twenty millimetres) dia	25 Numbers			Each	
i	2" (Two Inch)	30 Numbers			Each	
ii	3" (Three Inch)	40 Numbers			Each	
iii	4" (Four Inch)	20 Numbers			Each	
iv	6" (Six Inch)	18 Numbers			Each	
v	10" (Ten Inch)					
32	Providing and fixing G.I. Union complete as per direction of Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	25 Numbers			Each	
i	15mm (Fifteen millimetres) dia	30 Numbers			Each	
ii	20mm (Twenty millimetres) dia	20 Numbers			Each	
iii	25mm (Twenty five millimetres) dia					
33	Providing and fixing G.I. Elbow complete as per direction of Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	32 Numbers			Each	
i	15mm (Fifteen millimetres) dia	40 Numbers			Each	
ii	20mm (Twenty millimetres) dia	30 Numbers			Each	
iii	25mm (Twenty five millimetres) dia					
34	Providing and fixing G.I. Tee complete as per direction of Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.	30 Numbers			Each	
i	15mm (Fifteen millimetres) dia	30 Numbers			Each	
ii	20mm (Twenty millimetres) dia	20 Numbers			Each	
iii	25mm (Twenty five millimetres) dia					
35	Providing and fixing G.I. Stop cock complete as per direction of Engineer-Incharge including carriage of material within all leads, lifts and other incidentals.					

S. No.	Description of items	Quantity	Rate		Unit	Amount
			In fig	In words		
1	2	3	4	5	6	7
i	15mm (Fifteen millimetres) dia	10 Numbers			Each	
ii	20mm (Twenty millimetres) dia	30 Numbers			Each	
iii	25mm (Twenty five millimetres) dia	10 Numbers			Each	
36	Providing and fixing G.I. Shocket complete as per direction of Engineer-In-charge including carriage of material within all leads, lifts and other incidentals.	20 Numbers			Each	
i	15mm (Fifteen millimetres) dia	35 Numbers			Each	
ii	20mm (Twenty millimetres) dia	20 Numbers			Each	
iii	25mm (Twenty five millimetres) dia	182.00 Running metres			Per Running metre	
37	Providing and fixing 100mm (One hundred millimetres) dia pipes on wall face PVC (D-Plast) rain water pipes of working pressure not less than 4.5 kg (Four point five kilograms)/sqm including filling the joints with approved adhesive complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	30 Numbers			Each	
38	Providing and fixing PVC Plain bend 100mm (One hundred millimetres) dia on wall faces PVC (D-Plast) accessories for rain water pipes including filling the joints with approved adhesive complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	30 Numbers			Each	
40	Providing and fixing PVC collar 100mm (One hundred millimetres) dia on wall faces PVC (D-Plast) accessories for rain water pipes including filling the joints with approved adhesive complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.	40 Numbers			Each	
41	Providing and fixing PVC clamp 100mm (One hundred millimetres) dia on wall faces PVC (D-Plast) accessories for rain water pipes including filling the joints with approved adhesive complete as per direction of Engineer-In-Charge including entire carriage of materials within all leads, lifts and other incidentals.					
TOTAL :-						

Executive Engineer,
HP PWD Division,
Tanda at Nabagan