

Himachal Pradesh Public Works Department, Mandi-175015 Phone & Fax No. 01908-222033 E-Mail:- ee-jog-hp@nic.in

"NOTICE INVITING TENDER"

Sealed item rate tender for the following works are hereby invited by the Executive Engineer, B&R Division HP.PWD., Joginder Nagar District Mandi (H.P) from the eligible contractors of the appropriate class registered in HP.PWD. as per revised enlistment rules so as to reach in the office of under signed on 29/01/2022 up to 11:30 A.M. and will be opened on the same day at (12:00 noon) in the presence of intending contractors. The tender application will be received in this office against cash payment on 27/01/2022 up to 10.00 A.M. to 12:30 P.M. and tender form can be had from this office on 28/01/2022 from 2.00 P.M. to 5.00 Pm. The earnest money as shown against each in the shape of F.D.R of any bank in Himachal Pradesh duly pledged in the name of the under signed must accompany with each tender. The tender form will be issued to contractor giving proof of enlistment, GST, work done certificate, proof of machinery etc. Conditional tender and tender received without earnest money will be out rightly rejected. The offer of the tender shall be kept open for 90 days. The Executive Engineer reserves the right to reject any or all the tenders without assigning any reasons.

The draft NIT and other specifications and conditions of the tender can be seen by the

contractors in the office of the under signed on any working day during the office hours.

Sr. No.	Name of work		nount put to ender/ Est. cost		Earnest money	Te	ost of ender form	Eligible Class of Contractor	Time
1	Construction of link road to village Samoun Jarehar Langna Km. 0/0 to 2/0. (Sub Head:-Construction of breast wall at Km. 0/630 to 0/640)	₹	1,95,399/-	₹	3,900/-	₹	350/-	Class "D"	Three months
2	A/R & M/O Gang Hut Neri under HPPWD sub division Lad Bharol. (Sub Head:- Providing and laying cement concrete 1:4:8 and interlocking paver block in courtyard of gang Hut Neri)	₹	2,38,938/-	₹	4,800/-	₹	350/-	Class "D"	Three months
3	Construction of link road to Biru. (Sub Head:- Construction of CD work at Km. 0/250, Edge wall, soling, CC pavement in Km. 0/0 to 0/045)	₹	4,96,861/-	₹	9,900/-	₹	350/-	Class "D"	Three months
4	A/R & M/O various bridges under Lad Bharol Sub Division, HPPWD Lad Bharol. (Sub Head:- Dismantling of old damaged steel decking, providing & fixing steel decking and painting of of foot bridge between Kalehru and Basalan village)	₹	4,02,179/-	₹	8,000/-	₹	350/-	Class "D"	Three months
5	Construction of link road Golwan to Karsal Km. 0/0 to 10/0. (Sub Head:- Providing and laying U-shape drain, steel grating and construction of RCC hume culvert)	₹	3,49,309/-	₹	7,000/-	₹	350/-	Class "D"	Three months
6	Improvement of black spot on Baijnath Lad Bharol Kandapattan road Km. 26/00 to 36/00. (Sub Head :- Construction of retaining wall at Km. 31/344 to 31/360)	₹	2,76,164/-	₹	5,500/-	₹	350/-	Class "D"	Three months
7	Construction of link road from Bharan to kellu. (Sub Head :- Construction of wire crate at Km. 0/030 to 0/060 and retaining wall at Km. 0/0 to 0/007 RHS of Nallah)	₹	2,76,164/-	₹	5,600/-	₹	350/-	Class "D"	Three months
8	Construction of link road to village Ropa in GP Ropari. (Sub Head:- Construction of 600 mm dia RCC hume pipe culvert at Km. 0/035).	₹	3,54,453/-	₹	7,100/-	₹	350/-	Class "D"	Three months

1. Certified that tender of above works are being called of emergent nature in exigency of public interest Terms and conditions:-

The contractor should produce a copy of enlistment / renewal letter at time of application.

Executive Engineer reserves the right to reject/cancel any or all the tenders without assigning any reasons.

3. The contractor/Firm shall have his registration and GST No, the copy of same be attached with the application.

4. The earnest money shall be deposited duly pledged in favour of Executive Engineer B&R Division HPPWD., Joginder Nagar & cost of tender form for the above works should be submitted with the application for the purchase of the tender forms. The application received without earnest money & cost of tender form shall summarily be rejected.

 No tender form will be issued to the contractor without producing the work done certificate from the Executive Engineer concerned.

The Contractor/Firms must have executed minimum one civil /similar nature of work done of amount not less than 40% (forty
percent) of the estimated cost (without Liquidated Damage or compensation) in last five years.

 The contractor/firms are requested to insert the rate of each item in words as well as in figures failing which XEN reserves the right to accept/reject any tender without assigning any reason at any stage.

The tender shall be issued to those contractors who have not more than two works in hand.

Executive Engineer, B&R Division HP PWD., Joginder Nagar. on behalf of Governor

District Mandi (HP) on behalf of Governor of Himachal Pradesh Ph. 01908-222033

Dated:- 10 - 20 22

No. PW-JND-B&R-EA-I/NIT/Press/2021-22- 20 747-56

1. Copy to the F.C. Cum Principal Secretary (PW) to the Govt. of Himachal Pradesh Shimla-2 for favour of information please.

The Engineer-in-Chief, HPPWD, Shimla.

3. The Chief Engineer (MZ), HPPWD, Mandi.

4. The Superintending Engineer, Joginder Nagar Circle HPPWD, Joginder Nagar.

5. All the Assistant Engineer working under this Division.

6. Drawing Branch in this office.

Notice Board.

3. The Computer Cell office of the Engineer-in-Chief, HPPWD, Shimla for uploading the NIT on the Departmental website.

	The state of the s				- 1	
7	Name of Work: Construction of Link road to Village Samoun Jarehar Langna Km 0/00 to 2/00				Estimate Cost:	1,95,399.0
(SI	(\$H: Construction of Breast wall at km 0/630 to 0/640)			H	Earnest Money:	3,900.0
					типе гипи:	т штее тугопп
Sr.	Description of work	No. or	Unit	F	Rate	AMOUNT
Z		Qty.		Figures	Words	Rs. P
	1. Excavation in soil in hilly area in all heights and depths and in all kind of soil by all means including saturated soil comprising of ordinary soil, soft rocks, hard rocks, chiseling/ wedging out of rock (where	. 5.50	Per cubic metre			
	blasting is prohibited) and their intermediate classification of soil, setting out true to the required line, grades, width cutting and trimming of side slopes and level as shown on the drawing and as directed by the					
	Engineer-in- Charge at site according to the M.O.R.D. technical specification section 1000 & 300 and					
,	transportation of useful material for filling in road ways, camber, embankments for grade improvements and					
	disposal of all surplus material at approved dumping sites through all modes of transporation including head load or animals transport or mechanical means along with its leveling fine dressing and hauling fearning of					
	machineries, materials, tools equipments and safety measures. Any loss to the public / private property during					
	the course of execution shall be the absolute responsibility of the contractor which shall have to be duly					
	_					
2	Earth work in excavation for structures in all depths as per drawing and M.O.R.D.technical specification section 300 & 1600 including setting out, construction of shoring and bracing, removal of stumps and other	13.80	Per cubic metre			
	deleterious materials and disposal in all lead and lift including dressing of sides and bottom and back filling in trenches with excavated Suitable materials. All work of rock cutting by blasting shall be carried out by					
	taking all necessary precautions against soil erosion, damage to hill side, water pollution etc. and to protect stability of hill side rock shall be excavated with chiseling and wedging out rock (where blasting is					
	prohibited). All earth work in cutting/excavation including rock excavation shall be carried out true to lines orades side slones width camber siner elevation and level as shown on the drawings or as directed by the					
-	Engineer-in-Charge, hauling and stacking of materials useful for construction at suitable sites and safe					
	disposal of unsuitable cut materials in specified manner, filling of unevenness and finishing the road to					
	it shall be removed by suitable diversion, bailing out or pumping as directed and the area of the foundation or embankment shall be kept dry. Any loss to the public or private property during the course of excavation shall		İ.			
	be the whole responsibility of the contractor which shall have to be duly compensated by him at his own cost.	3.				



	4	v s m s v a		
Total	Providing weep holes in brick masonry/stone masonry/plain or reinforced concrete abutment, wing wall, return wall with 100mm (one hundred millimeter) dia P.V.C. pipe extending through the full width of the structures with slope of I (v): 20(H) towards drainage face complete as per drawing and M.O.R.D.technical specification clauses 614, 709 & 1206.6 and as per the directions of Engineer-in-Charge including carriage of material within all leads and lifts and other incidentals and to the entire satisfaction of the Engineer-in-Charge.	roviding and laying cement concrete 1:5:10(one cement: five sand:ten graded crushed / broken stone aggregate 40 mm (forty milimeters) nominal size) plums and curing complete including the cost of form work in Retaining walls Breast walls , in or under water complete including, pumping or bailing out water ,dewatering removal of slush as required at site which may arisen at the time of laying under water complete for all heights/depths including cost of form work as per drawings and MORD technical specifications section 800, 900,1200 & 1600 and as per the direction of Engineer-in-Charge including carriage of material within all leads and lifts and other incidentals .		Description of work
	8.00	34.10	Qty.	No. or
	Each	Per cubic metre		Unit
			Figures	1
			Words	Rate
			Rs. P	AMOUNT

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	SCHEDULE OF QUANTILY		(1			7
2	Name of Work: A/R & M/O Gang Hut Neri Under HPPWD Sub Division Lad Bharol				Estimate Cost:	2,38,93
2	(S.H.: Providing and Laving Cement concrete 1:4:8 and Interlocking paver block in Courtyard of Gang Hut Neri.)	of Gang H	ut Neri)	-	Earnest Money:	4,80
(0.			- 3		Time Limit:	Three Mo
2	Description of work	No. or	Unit	I	Rate	LINDOMA
Z		Qty.		Figures	Words	Rs. P
_	Excavation in foundation, trenches etcetera in earth work involving all classification of soil such as pick work,	27.00.	Per cubic			
	pick jumper work, blasting work, soft or hard rocks including chiseling/wedging out of rocks where blasting		metre			
	work is prohibited or any other mixed variety of intermediate soil, dewatering and removal of slush if arrisen					
7	during course of construction and lifts upto all heights including stacking the excavated soil not more than three					
	-					
	transportation and other incidental, as per the direction and entire satisfaction of Engineer-In-Charge. Any loss					
	to the private and public property during course of construction shall be absolute responsibility of the					
	contractor.	22 00				
2	Providing and laying cement concrete 1:4:8 (One cement isto four sand isto eight aggregate) graded crished/broken stone aggregate 25mm (twenty five millimeter) nominal size mechanically mixed and curing	27.00	metre			
	complete, excluding cost of form work in foundation and plinth. The rates are inclusive cost and carriage of					1
	materials with in all leads, lifts and other incidentals, as per the direction and entire satisfaction of Engineer-In-					
Г	Charge.	100.00	Dar Course			
ω.	Providing and laying heavy duty precast cement conrete inter locking paver blocks outlin (sixty infinited)	100.00	metre			
	25mm (twenty five millimeter) thick average thickness of cement mortar 1:4 (one cement isto four sand) laid					
	over and jointed with neat cement slurry mixed with pigment to match the shade of blocks i/c curing rubbing &					
	polishing complete (Sub base concrete floor to be paid for. The rates are inclusive cost and carriage of materials					
	with in all leads, lifts and other incidentals, as per the direction and entire satisfaction of Engineer-In-Charge.					
Т	Total					

Poscription of work Cutting in earth work in all heights and depths in all kinds of soil including saturated soil comprising of pick, jumper and blasting work both in soft and hard rock with chiseling wedging out of rock (where blasting is prohibited) and their intermediate classification of soil setting out time to the required line, Charge at site as per technical specification cluase 1603.1, 1603.2 and sorting out useful/un-useful materials and stacking the same in all leads and lifts in acquired width of the road and transportation of un-useful materials for filling in road ways camber embankments for grades improvements and disposal of all untransportation including head load or animal transport or mechanical means along with its leveling fine transportation including head load or animal transport or mechanical means along with its leveling fine dressing and carriage of all labour machineries, materials, tools equipments and disposal of all undirected in the public/private property during the course of execution shall be absolute responsibility of the contractor which shall be duly compensated by him in all cases. Earth work in excavation for structures in all depths as per drawing and M.O.R.D.technical specification electerious materials and disposal in all lead and lift including dressing of sides and bottom and back filling in trenches with excavated Suitable materials. All work of rock cutting by blasting shall be carried out by taking all necessary precautions against soil erosion, damage to hill side, water pollution etc. and to protect prohibited). All earth work in cutting/excavation including rock excavation shall be carried out true to fine grades, side slopes, width, camber super elevation and level as shown on the drawings or as directed by the Engineer-in-Charge. It the foundation of the structure is in an rea with stagnant water or water is met with in the excavation due to spring scepage, rain and other foundation or embankment shall be kept dry. Any loss to the public or private property	Name of Work: Construction of Link road to Biru (Sub Head:- Construction of CD work at km 0/250, Edge wall, Soling, CC Pavement in km 0/00 to
	Sr.
	pick, jumper and bla
	grades, side slopes tri
	Charge at site as per i
	materials for filling i
	transportation includidressing and carriag
	Any loss to the public contractor which shall
	in trenches with excav
	stability of hill side
	prohibited). All earth
	Engineer-in-Charge, I
	specified dimension
	causes it shall be ren
	foundation or embank excavation shall be the
llitts carriage of material and other incidentials	

					Total	Г
					the structures with slope of 1V:20H (one vertical isto twenty horizontal) towards drawing face complete as per drawing and technical specifications clauses 614,709,1204.3.7 including carriage of material and other incidentials.	
			Each	15.00	Providing weep hole in brick masonry/ stone masonry / plain reinforced concrete abutment, wing wall,	00
					(zero point two cubic metre) capacity including form work with steel channels and plates and entire carriage of material with in all leads and lifts complete as per the direction of Engineer-in-charge.	
			Per Cubic metre	15.00	Construction of un-reinforced cement concrete pavement as per design and drawing with expension and construction joints, over a prepared sub base, with 43 (forty three) grade cement as per technical clause and specifications M-20 (twenty) grade course and fine aggregate conforming to IS:383, maximum size of coarse aggregate not exceeding 25 mm (twenty five millimetre) mixed in a concrete mixer of not less than 0.2 cum	7
					Engineer - in- Charge including hauling /carriage of materials to various location through all modes of transportation in all leads, lifts and other incidental complete in all respect.	
	165				moorum or earth etc. complete as per HP.PWD specification. 100 mm (one hundred milimeter) spread thickness (finished work including materials and labour) and to the entire satisfaction and direction of	
			metre	15.00		0
			7	15.00		
			metre		transporting to site, spreading, grading to required slope and compacting to meet requirment of table 300.1 and 300.2 with a lead upto 1000m.as per Technical Specification Clause 301.5 including carriage of	
			Per cubic	119.25		5
					work in head walls and parapets clause 1108 complete within all leads, lifts carriage of material and other incidentials.	
			mono		1:2 (one cement : two sand) but excluding excavation, protection work, back filling, concrete and masonry	
			Per running	7.50		4
Rs. P	Words	Figures		Qty.		No
AMOUNT	Rate		Unit	No. or	Description of work	or.



Schedule of Quantity

Estimated Cost:-Earnest Money:-Time:-

402179.00 8000.00 Three Month

Name of work:- A/R & M/O various bridges under Lad Bharol Sub Division HP.PWD. Lad Bharol

Sub Head:-Dismantalling of old damaged steel decking, Providing & fixing steel decking & painting of foot bridge between Kalehru and Basalan village.)

Description of item Dismantalling steel work in built up sections in angles tees, plates and channels including all gusset plates and nuts cutting rivets welding etc. including carriage of materials within all leads and lifts complete in all respect. Steel work welded in built up sections/framed work including cutting hoisting and fixing in sections of anything and priming cost of anything steel extractions are recorded at the largest respective and steel extractions.
Qty. In Figure 2945.16 3926.88
In Figure Ra

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ω	2	-		Sub (Sub
Providing weep hole in brick masonry/ stone masonry / plain reinforced concrete abutment, wing wall, return wall with 100mm dia.(one hundred millimetre diametre) PVC pipe extending through the full width of the structures with slope of 1V:20H (one vertical isto twenty horizontal) towards drawing face complete as per drawing and technical specifications clauses 614,709,1204.3.7 including carriage of material and other incidentials.	Providing and laying concrete for plain / reinforced concrete in open foundations complete as per drawing and technical specification clauses 802,803,1202 & 1203. Plain cement concrete nominal mix 1:5:10 (one cement : five sand : ten graded stone aggregate 40mm (forty millimetre) nominal size) complete within all leads, lifts carriage of material and other incidentials.	specification section 300 & 1600 including setting out, construction of shoring and M.O.R.D.technical specification section 300 & 1600 including setting out, construction of shoring and bracing, removal of stumps and other deleterious materials and disposal in all lead and lift including dressing of sides and bottom and back filling in trenches with excavated Suitable materials. All work of rock cutting by blasting shall be carried out by taking all necessary precautions against soil erosion, damage to hill side, water pollution etc. and to protect stability of hill side rock shall be excavated with chiseling and wedging out rock (where blasting is prohibited). All earth work in cutting/excavation including rock excavation shall be carried out true to lines grades, side slopes, width, camber super elevation and level as shown on the drawings or as directed by the Engineer-in-Charge, hauling and stacking of materials useful for construction at suitable sites and safe disposal of unsuitable cut materials in specified manner, filling of unevenness and finishing the road to specified dimension or as directed by the Enginer-in-Charge. If the foundation of the structure is in an area with stagnant water or water is met with in the excavation due to spring seepage, rain and other causes it shall be removed by suitable diversion, bailing out or pumping as directed and the area of the foundation or embankment shall be kept dry. Any loss to the public or private property during the course of excavation shall be the whole responsibility of the contractor which shall have to be duly compensated by him at his own cost.	Description of Work	Name of Work: Construction of Link road Golwan to Karsal km 0/00 to 10/00 (Sub Head:- Providing and laying U-Shape Drain, Steel Grating and construction of RCC Hume
6.00	11.34	31.55	Qty.	ne pipe C
Each	Per cubic metre	Per cubic metre	Onit .	pipe Culvert)
			Figures	Е
			Words	Estimate Cost: Earnest Money: Time Limit:
			AMOUNT Rs. P	3,49,309.00 7,000.00 Three Months



				DT 10
L	0	0 11 15 18 10		-
Total	Providing and laying 300mm (Three hundred millimetre) diametre reinforced cement concrete pipe NP2 for culverts on first class bedding of granular material in single row including fixing collar with cement mortar 1:2 (one cement: two sand) but excluding excavation, protection work, back filling, concrete and masonry work in head walls and parapets clause 1108 complete within all leads, lifts carriage of material and other incidentials.(Labour Rate)	Steel work welded in built up sections, trusses and framed work, including cutting, hoisting, fixing In gratings framed guard bars, ladders, railling, brackets and similar work including cutting hoisting fixing in position & applying a priming coat of red lead paint complete including entire carriage of materials within all leads and lifts and other incidentals, as per the direction and entire satisfaction of Engineer-In-Charge.	technical specifications clause 802, 803, 1202 & 1203. Plain cement concrete Grade M-10 complete within all leads, lifts carriage of material and other incidentials.	
	30.00	800.00	12.41	No. or Qty.
	Per running metre	Per Kilogramme	Per cubic metre	Unit
				Figures
				Rate
				AMOUNT Rs. P

No. Name of Work: Improvement of Balck Spot on Baijnath Lad Bharol Kandapattan Road km 26/00 to 36/00 (SH: Construction of Retaining wall at km 31/344 to 31/360) 2 Providing weep holes in brick masonry/stone masonry/plain or reinforced concrete abutment, wing Providing and laying cement concrete 1:5:10(one cement: five sand:ten graded crushed / broken Excavation in soil in hilly area in all heights and depths and in all kind of soil by all means of rock (where blasting is prohibited) and their intermediate classification of soil, setting out true entire satisfaction of the Engineer-in-Charge. M.O.R.D.technical specification clauses 614, 709 & 1206.6 and as per the directions of Engineer-in wall, return wall with 100mm (one hundred millimeter) dia P.V.C. pipe extending through the full MORD technical specifications section 800, 900,1200 & 1600 and as per the direction of Engineeror bailing out water, dewatering removal of slush as required at site which may arisen at the time of cost of form work in Retaining walls Breast walls, in or under water complete including, pumping stone aggregate 40 mm (forty milimeters) nominal size) plums and curing complete including the compensated by him at his own cost course of execution shall be the absolute responsibility of the contractor which shall have to be duly materials, tools equipments and safety measures. Any loss to the public / private property during the or mechanical means along with its leveling fine dressing and hauling /carriage of machineries approved dumping sites through all modes of transporation including head load or animals transpor ways, camber, embankments for grade improvements and disposal of all surplus material at leads and lifts in acquired width of the road and transportation of useful material for filling in road specification section 1000 & 300 and sorting out useful materials and stacking the same in al drawing and as directed by the Engineer-in- Charge at site according to the M.O.R.D. technica to the required line, grades, width cutting and trimming of side slopes and level as shown on the including saturated soil comprising of ordinary soil, soft rocks, hard rocks, chiseling/ wedging out Charge including carriage of material within all leads and lifts and other incidentals and to the width of the structures with slope of I (v): 20(H) towards drainage face complete as per drawing and in-Charge including carriage of material within all leads and lifts and other incidentals laying under water complete for all heights/depths including cost of form work as per drawings and Description of work No. or Qty. 35.00 49.45 18.32 Per cubic Per cubic Each metre Unit Figures **Earnest Money: Estimate Cost:** Time Limit: Words Three Months AMOUNT Rs. 2,76,164.00 5,500.00

_	1			No	S
Total	and other incidentials.	specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material	Back filling behind abutment wing wall and return wall complete as per Drawing and technical		Description of work
			9.36	Qty.	No. or
		metre	Per cubic		Unit
				Figures	
				Words	Rate
	- Carona			Rs. P	AMOUNT

ate at km 0/030 to 0/060 & Re	(S.H.: Construction of Wire Crate at km 0/030 to 0/060 & Retaining wall at km 0/00 to 0/007 RHS of Nallah)	Name of Work: Construction of link road from Bharan to Kellu (S.H.: Construction of Wire Crate at km 0/030 to 0/060 & Retaining wall at km 0/00 to 0/007 RHS of Nallah)	
taining	wall at km 0/00 to 0/007 RHS of Nallah)	wall at km 0/00 to 0/007 RHS of Nallah) No. or Unit	Jnit
0	of Nallah)	(Nallah)	Jnit Figures.
No. o		Init	Figures
Jnit Figures R		Estimate Cost: Earnest Money: Time Limit: Rate Words	

Providing and laying cement concrete 1:5:10(one cement: five sand:ten graded crushed / broken

16.52

Per cubic metre

stone aggregate 40 mm (forty milimeters) nominal size) plums and curing complete including the

incidentals.

direction of Engineer-in-Charge including carriage of material within all leads and lifts and other drawings and MORD technical specifications section 800, 900,1200 & 1600 and as per the the time of laying under water complete for all heights/depths including cost of form work as per pumping or bailing out water ,dewatering removal of slush as required at site which may arisen at cost of form work in Retaining walls Breast walls, in or under water complete including,

directed and the area of the foundation or embankment shall be kept dry. Any loss to the public or private property during the course of excavation shall be the whole responsibility of the contractor

which shall have to be duly compensated by him at his own cost.

	complete within	6 Filling earth in												wall, return wal width of the str and M.O.R.D.t Engineer-in-Ch and to the entire and to the entire hundred millim hundred millim laid with stones and technical so other incidentia specifications of and other incides and earth in		
	complete within all leads, lifts carriage of material and other incidentials.	1	Back filling behind abutment wing wall and return wall complete as per Drawing and technical specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material and other incidentials.	other incidentials. Back filling behind a specifications clause and other incidentials	and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material and other incidentials.	hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. (twenty five kilogram) each as per drawing and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material and other incidentials.	wire conforming to IS: 280 and IS: 4826 in 100mm x 100mm (one hundred millimetre into one hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. (twenty five kilogram) each as per drawing and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material and other incidentials.	Providing and laying of boulder apron laid in wire crates with 4mm (four millimetre) diametre G.I. wire conforming to IS: 280 and IS: 4826 in 100mm x 100mm (one hundred millimetre into one hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. (twenty five kilogram) each as per drawing and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material and other incidentials.	Providing and laying wire conforming to I nundred millimetre) r laid with stones bould and technical specifiother incidentials. Back filling behind specifications clause and other incidentials.	Engineer-in-Charge including carriage of material with and to the entire satisfaction of the Engineer-in-Charge. Providing and laying of boulder apron laid in wire crate wire conforming to IS: 280 and IS: 4826 in 100mm x hundred millimetre) mesh (woven diagonally) including laid with stones boulders weighting not less than 25 Kg. and technical specifications clause 1301 complete with other incidentials. Back filling behind abutment wing wall and return we specifications clause 1204.3.8 Granular material complete and other incidentials.	and M.O.R.D.technical specification clauses 614, 709 & 1206.6 and as per the directions of Engineer-in-Charge including carriage of material within all leads and lifts and other incidentals and to the entire satisfaction of the Engineer-in-Charge. Providing and laying of boulder apron laid in wire crates with 4mm (four millimetre) diametre G.I. wire conforming to IS: 280 and IS: 4826 in 100mm x 100mm (one hundred millimetre into one hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. (twenty five kilogram) each as per drawing and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical and other incidentials.	width of the structures with slope of I (v): 20(H) towards drainage face complete as per drawing and M.O.R.D.technical specification clauses 614, 709 & 1206.6 and as per the directions of Engineer-in-Charge including carriage of material within all leads and lifts and other incidentals and to the entire satisfaction of the Engineer-in-Charge. Providing and laying of boulder apron laid in wire crates with 4mm (four millimetre) diametre G.I. wire conforming to IS: 280 and IS: 4826 in 100mm x 100mm (one hundred millimetre into one hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. (twenty five kilogram) each as per drawing and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical and other incidentials.	wall, return wall with 100mm (one hundred millimeter) dia P.V.C. pipe extending through the full width of the structures with slope of I (v): 20(H) towards drainage face complete as per drawing and M.O.R.D.technical specification clauses 614, 709 & 1206.6 and as per the directions of Engineer-in-Charge including carriage of material within all leads and lifts and other incidentals and to the entire satisfaction of the Engineer-in-Charge. Providing and laying of boulder apron laid in wire crates with 4mm (four millimetre) diametre G.I. wire conforming to IS: 280 and IS: 4826 in 100mm x 100mm (one hundred millimetre into one hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. (twenty five kilogram) each as per drawing and technical specifications clause 1301 complete within all leads, lifts, carriage of material and other incidentials. Back filling behind abutment wing wall and return wall complete as per Drawing and technical specifications clause 1204.3.8 Granular material complete within all leads, lifts carriage of material and other incidentials.	wall, return wall with 100mm (one hundred millimeter) dia P.V.C. pipe extending through the full width of the structures with slope of I (v): 20(H) towards drainage face complete as per drawing and M.O.R.D.technical specification clauses 614, 709 & 1206.6 and as per the directions of Engineer-in-Charge including carriage of material within all leads and lifts and other incidentals and to the entire satisfaction of the Engineer-in-Charge. 4 Providing and laying of boulder apron laid in wire crates with 4mm (four millimetre) diametre G.I. wire conforming to IS: 280 and IS: 4826 in 100mm x 100mm (one hundred millimetre into one hundred millimetre) mesh (woven diagonally) including 10% (ten percent) extra for laps and joints laid with stones boulders weighting not less than 25 Kg. 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Providing weep holes wall, return wall with width of the structure and M.O.R.D.technic Engineer-in-Charge and to the entire satist Providing and laying wire conforming to I hundred millimetre) relaid with stones bould and technical specifications clause and other incidentials. Back filling behind specifications clause and other incidentials.
plete within all leads	Filling earth in foundation trenches as per drawing and technical specifications clause 305.3.9		filling behind abu iffications clause 120 other incidentials.	r incidentials. filling behind abu iffications clause 120 other incidentials.	with stones boulders technical specification reincidentials. filling behind abuiffications clause 120 other incidentials.	red millimetre) mes with stones boulders technical specificati r incidentials. filling behind abu ifications clause 120 other incidentials.	conforming to IS: fred millimetre) mes with stones boulders technical specificati r incidentials. filling behind abu ifications clause 120 other incidentials.	iding and laying of conforming to IS: fred millimetre) mes with stones boulders technical specification r incidentials. filling behind abuother incidentials.	iding and laying of conforming to IS: fred millimetre) mes with stones boulders technical specification incidentials.	neer-in-Charge incl to the entire satisfact iding and laying of iconforming to IS: fred millimetre) mes with stones boulders technical specificati r incidentials. filling behind abu other incidentials.	M.O.R.D.technical neer-in-Charge incl to the entire satisfact iding and laying of conforming to IS: tred millimetre) mes with stones boulders technical specificatir incidentials.	M.O.R.D.technical neer-in-Charge incl to the entire satisfact iding and laying of conforming to IS: fred millimetre) mes with stones boulders technical specificati r incidentials. filling behind abu other incidentials.	return wall with 10 h of the structures v M.O.R.D.technical neer-in-Charge incl to the entire satisfact iding and laying of conforming to IS: fred millimetre) mes with stones boulders technical specification r incidentials.	return wall with 10 h of the structures wall with 10 h.O.R.D.technical neer-in-Charge incide to the entire satisfact of the entire satisfact iding and laying of conforming to IS: hed millimetre) mes with stones boulders technical specification reincidentials.	iding weep holes in return wall with 10 h of the structures v M.O.R.D.technical neer-in-Charge including and laying of conforming to IS: fred millimetre) mes with stones boulders technical specification incidentials.	iding weep holes in return wall with 10 h of the structures v M.O.R.D.technical neer-in-Charge including and laying of conforming to IS: fred millimetre) meswith stones boulders technical specification incidentials.
vithin all leads, lifts	th in foundation tr	ncidentials.	g behind abutment ons clause 1204.3.8	g behind abutment ons clause 1204.3.8	al specifications clentials. g behind abutment purs clause 1204.3.8	llimetre) mesh (wo ones boulders weigh all specifications chemitals. g behind abutment ons clause 1204.3.8	ming to IS: 280 au Illimetre) mesh (wo ones boulders weigi cal specifications c entials. g behind abutment ons clause 1204.3.8	nd laying of boulderming to IS: 280 au Illimetre) mesh (wo ones boulders weight all specifications clentials.	ntire satisfaction of mid laying of bouldarming to IS: 280 au illimetre) mesh (wo ones boulders weights all specifications cleentials.	ntire satisfaction of and laying of boulderming to IS: 280 availlimetre) mesh (wo ones boulders weight call specifications centials.	.D.technical specification of antire satisfaction of and laying of boulderming to IS: 280 a alllimetre) mesh (wo ones boulders weight call specifications centials.	e structures with sl.D.technical specific-Charge including ntire satisfaction of md laying of bould rming to IS: 280 a illimetre) mesh (wo ones boulders weig cal specifications centials.	wall with 100mm e structures with sl.D.technical specific Charge including ntire satisfaction of and laying of bould rming to IS: 280 a cones boulders weig cal specifications centials.	wall with 100mm e structures with sl. D.technical specification of antire satisfaction of and laying of bouldarming to IS: 280 a alllimetre) mesh (wo ones boulders weig cal specifications centials. g behind abutment ms clause 1204.3.8	wall with 100mm e structures with specification of md laying of bouldarming to IS: 280 a illimetre) mesh (wo ones boulders weig sehind abutment ms clause 1204.3.8	weep holes in brick wall with 100mm e structures with sl .D.technical specifichering including intire satisfaction of and laying of bould rming to IS: 280 a illimetre) mesh (wo ones boulders weig cal specifications c entials. g behind abutment ms clause 1204.3.8
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Sr. Description of work The specification section 300 & 1600 including setting out, construction of specification section 300 & 1600 including setting out, construction of stream of sides and other deleterious materials and disposal in all lead dressing of sides and bottom and back filling in trenches with excavated Su work of rock cutting by blasting shall be carried out by taking all necessary soil erosion, damage to hill side, water pollution etc. and to protect stability of be excavated with chiseling and wedging out rock (where blasting is prohibited cutting/excavation including rock excavation shall be carried out true to lines width, camber super elevation and level as shown on the drawings or as directed by the Engine in Charge If disposal of unsuitable cut materials in specified manner, filling of unevenne	
res in all depths as per drawing and cluding setting out, construction of sh ous materials and disposal in all lead filling in trenches with excavated Sui be carried out by taking all necessary pollution etc. and to protect stability of pollution shall be carried out true to lines at a shown on the drawings or as directly attended by the Enginer in Charge If	Earth work in excavation for structures in all depths as per drawing and M.O.R.D.technical specification section 300 & 1600 including setting out, construction of shoring and bracing, removal of stumps and other deleterious materials and disposal in all lead and lift including dressing of sides and bottom and back filling in trenches with excavated Suitable materials. All work of rock cutting by blasting shall be carried out by taking all necessary precautions against soil erosion, damage to hill side, water pollution etc. and to protect stability of hill side rock shall be excavated with chiseling and wedging out rock (where blasting is prohibited). All earth work in cutting/excavation including rock excavation shall be carried out true to lines grades, side slopes, width, camber super elevation and level as shown on the drawings or as directed by the Engineer-in-Charge, hauling and stacking of materials useful for construction at suitable sites and safe disposal of unsuitable cut materials in specified manner, filling of unevenness and finishing the road to specified dimension or as directed by the Enginer-in-Charge. If the foundation of the structure is in an area with stagnant water or water is met with in the excavation due to spring seepage, rain and other causes it shall be removed by suitable diversion, bailing out or pumping as directed and the area of the foundation or embankment shall be kept dry. Any loss to the public or private property during the course of excavation shall be the whole responsibility of the contractor which shall have to be duly compensated by him at his own cost.
the structure is in an area with stagnant water or water is met with in the excavation due to spring seepage, rain and other causes it shall be removed by suitable diversion, bailing out or	pumping as directed and the area of the foundation or embankment shall be kept dry. Any loss to the public or private property during the course of excavation shall be the whole responsibility of the contractor which shall have to be duly compensated by him at his own cost.
Providing concrete for plain/reinforced concrete in open foundations complete as per drawings and technical specifications clause 802, 803, 1202 & 1203. Plain cement concrete Grade M-10 complete within all leads, lifts carriage of material and other incidentials.	

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Total	curing complete within all leads, lifts carriage of material and other incidentials.	cement: two sand: four graded/crushed stone aggregate 40mm (forty millimetre) nominal size)	and technical specifications clause 802, 803, 1202 & 1203. Plain cement concrete 1:2:4 (one	4 Providing concrete for plain/reinforced concrete in open foundations complete as per drawings		Description of work
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